



# हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

## Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

अस्थायी शैक्षणिक खण्ड, शाहपुर, जिला कांगड़ा, हिमाचल प्रदेश - 176206

Temporary Academic Block, Shahpur, Distt. Kangra (HP) - 176206

Website: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

File No. LS/3-2/CUHP/12/126-135

Dated: 20.11.2017

### OFFICE ORDER

Dr. Yusuf Akhter, Assistant Professor, Centre for Computational Biology and Bioinformatics, School of Life Sciences is currently **running** the following **research projects** in the University.

1. Genome-wide screening of outer membrane proteins in *Mycobacterium avium* subsp. paratuberculosis (MAP) K-10: repertoire of candidate immunogens for translational medicine. **{SERB (DST, Govt. of India)}**
2. A project proposal on targeting novel prokaryotic ubiquitin like post-translational modification pathway for therapeutic interventions against *Mycobacterium tuberculosis*. **(UGC)**
3. Identification of outer membrane proteins in *Mycobacterium leprae* and subsequent selection and analysis of epitopes to target immunogenic candidate proteins. **(ICMR)**
4. Genome wide identification of metal binding proteins in bread wheat. **{(CO-PI) (DBT)}**.
5. Genome-wide identification of outer membrane proteins in pathogenic mycobacterial species: a repertoire of candidate immunogens for translational medicine. **(Research Associate Project) (ICMR)**.
6. Understanding the involvement of *Staphylococcus aureus* Two-Component Regulatory System GraRS associated operons in biofilm formation and development of antimicrobial resistance: An exploratory study of protein-protein interaction for discovering novel antimicrobials. **(Not Activated)**

Consequent upon the selection of **Dr. Yusuf Akhter** as **Assistant Professor** in the **Department of Biotechnology, Babasaheb Bhimrao Ambedkar University (BBAU), Lucknow, Uttar Pradesh** and **relieving** by the Centre for Computational Biology and Bioinformatics, SoLS to join his new place of posting, **Dr. Mushtaq Ahmed** (Associate Professor, Department of Environmental Sciences, SoEES, CUHP) will act as **In-Charge** of the above mentioned Research Projects of Dr. Yusuf Akhter till the transfer of his project to his new destination. All administrative work related to the above projects will be taken care by Dr. Mushtaq Ahmed.

  
Dean

School of Life Sciences

#### Copy to:-

1. All Project Resource Persons hired in the above mentioned research projects, CUHP, TAB, Shahpur.
2. Dr. Mushtaq Ahmed, Associate Professor, SoEES, CUHP, TAB, Shahpur.
3. Dr. Yusuf Akhter, Assistant Professor, CBB, SoLS, CUHP, TAB, Shahpur.
4. The Registrar, Central University of Himachal Pradesh, Camp Office, Dharamshala.
5. The Finance Officer, Central University of Himachal Pradesh, TAB, Shahpur.
6. The Pro-Vice-Chancellor, Central University of Himachal Pradesh, TAB, Shahpur.
7. The PS to VC for kind information of the Hon'ble Vice Chancellor, Central University of Himachal Pradesh, Camp Office, Dharamshala.

To,

17-11-17

The Dean,  
School of Life Sciences  
Central University of Himachal Pradesh

Sub: In-charge of the ongoing research projects-Reg.

Dear Sir,

I am currently running the following six research projects at the Central University of Himachal Pradesh.

### Research Projects

Sr. No.	Project Title	Agency	Sanction No.	Budget (Rs. in Lacs)	Present Status	Project Resource person hired	Equipments Procured
1	Genome-wide screening of outer membrane proteins in <i>Mycobacterium avium</i> subsp. paratuberculosis (MAP) K-10: a repertoire of candidate immunogens for translational medicine	SERB (DST, Govt. of India)	SERB/LS-400/2014	Rs. 26,00,000	Ongoing	Ms. Shweta Thakur (Project Fellow)	Workstation Z820 (01) [CUHP/TAB/1-258/1(1-1) R-210] Printer CUM Scanner (01) [CUHP/TAB/1-184/1(1-1) R-210]
2	A project proposal on targeting novel prokaryotic ubiquitin like post-translational modification pathway for therapeutic interventions against <i>Mycobacterium tuberculosis</i>	University Grant Commission	MRP-MAJOR-MICR-2013-26840	Rs. 17,15,500	On going	Ms. Monika Kumari (Project Fellow)	Workstation Z820 (01) [CUHP/TAB/2-258/2(1-1) R-210]
3	Identification of outer membrane proteins in <i>Mycobacterium leprae</i> and subsequent selection and analysis of epitopes to target immunogenic candidate proteins	Indian Council of Medical Research (ICMR)	BIC/12(04) 2014	Rs. 49,28,000	Ongoing	Mr. Soumiya Pal (ICMR-JRF Project Fellow)	NIL
4	Genome wide identification of metal binding proteins in bread wheat (CO-PI)	Department of Biotechnology (DBT), Govt. of India	BT/PR 13692/BID/7/2015	Rs. 25	Ongoing	-	-
5	Genome-wide identification of outer membrane proteins in	Indian Council of Medical	BIC/11(23)/2014	Research Associate	Ongoing	Dr. Aarti Rana (ICMR-	-

Received  
Dr. Soumiya Pal  
16/11/17

Mr. Gaurav  
to issue letter

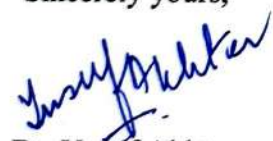
Dr. Soumiya Pal



	pathogenic mycobacterial species: a repertoire of candidate immunogens for translational medicine (Research Associate Project)	Research (ICMR)		e Fellows hip		Research Associate)	
6	Understanding the involvement of <i>Staphylococcus aureus</i> Two-Component Regulatory System GraRS associated operons in biofilm formation and development of antimicrobial resistance: An exploratory study of protein-protein interaction for discovering novel antimicrobials	Twinning Programme d 2015 Experts Recommendation (DBT)	MED/ 2015/1 6	Recommended for Funding , but fund still not received	Not Activated	-	-

Consequent upon my selection as Assistant Professor in the Department of Biotechnology, Babasaheb Bhimrao Ambedkar University (BBAU), Lucknow, Uttar Pradesh, I shall get relieved while retaining lien, from the Centre for Computational Biology and Bioinformatics, CUHP to join the said post (letter enclosed). Till these projects exist in CUHP/are transferred by the funding agencies to the new place of my posting as mentioned above, **Dr. Mushtaq Ahmed (Associate Professor, Department of Environmental Science, CUHP)**, who is my long term research collaborator has very kindly agreed to act as **In-charge** of these projects. This is for your kind information and necessary action required if any.

Sincerely yours,



Dr. Yusuf Akhter  
Assistant Professor  
School of Life Sciences

Copy to:

1. Dr. Mushtaq Ahmed, Associate Professor, SEES
2. The Finance Officer, CUHP
3. The Registrar, CUHP
4. All concerned
5. PS to HVC for kind information Honourable Vice Chancellor, CUHP

हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय  
UNIVERSITY OF HIMACHAL PRADESH

Under Central Universities Act 2009  
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Ambrish Kumar Mahajan

School of Earth & Environmental Sciences  
School of Life Sciences

File No. LS/3-4/CUIP/12/ 93

Dated:- 22.12.2016

## RELIEVING ORDER

Dear Dr. Shailender Kumar Verma,

You are hereby relieved from the Centre for Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh, Dharamshala on 24<sup>th</sup> December, 2016 (A/N) for avail the European Molecular Biology Organization (EMBO) short term fellowship w.e.f. 05<sup>th</sup> January, 2017 to 04<sup>th</sup> February, 2017 at Institut de Biologies Intergrative de Plantes CNRS, in Montpellier, France for 30 days. Your Departure from Delhi to France will be from 03<sup>rd</sup> January, 2017 and Arrival from France to Delhi will be 08<sup>th</sup> February, 2017.

Dr. Shailender Kumar Verma,

Assistant Professor,

Centre for Computational Biology and Bioinformatics,

School of Life Sciences,

Central University of Himachal Pradesh,

Temporary Academic Block, Shahpur

Kangra-176206

(Prof. Ambrish Kumar Mahajan)

निदेशक, आणविक जैव विज्ञान एवं जैवसूचना केंद्र  
Director, Centre for Computational Biology & Bioinformatics  
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय  
Central University of Himachal Pradesh  
अस्थायी अकादमिक ब्लॉक/Temporary Academic Block  
शाहपुर, कांगड़ा (हि.प्र.)/Shahpur, Kangra (H.P.)-176206





**Dr. Shailender Kumar Verma**

**Assistant Professor**

**Contact Details:**

Room No. 210,  
Center for Computational Biology and  
Bioinformatics, School of Life Sciences,  
Temporary Academic block,  
Central University of Himachal Pradesh, Shahpur,  
Kangra : 176206, Himachal Pradesh

**E mails**

[shailenderverma22@gmail.com](mailto:shailenderverma22@gmail.com);  
[skverma@cuhimachal.ac.in](mailto:skverma@cuhimachal.ac.in)

**Academic Qualification:**

**Ph.D.** in Biotechnology from the Indian Institute of  
Technology Roorkee.

**Supervisor:** Prof. H.S. Dhaliwal and Prof. Ramasare  
Prasad

**Thesis title:** Introgression of genes for high grain Fe  
and Zn of group 2 chromosome of *Aegilops* into  
Wheat

**Positions Held:**

- **Assistant Professor**, Central University of  
Himachal Pradesh, India (Dec 2012 – till date)
- **The Royal Society, Newton International  
Fellow** at the John Innes Centre, Norwich,  
United Kingdom (Jan 2018-Dec 2019)
- **European Molecular Biology Organization  
(EMBO) short term fellow** at Biochimie et  
physiologie moléculaire des plantes, French  
National Institute for Agricultural Research  
(INRA), CNRS, Montpellier, France (Jan-Feb  
2017)
- **CSIR-Research fellow** at Indian Institute of  
Technology Roorkee. India (Jan 2009-Dec 2012)

**Specialisation:**

Genetics, Genomics and Bioinformatics

**Research Interest:**

Plant Genetics and Genomics, Agricultural Bioinformatics, Wheat Biofortification, Role of Metals in Biology and Plant Systems Biology

**Publications:**

- Sharma A., Sharma D., **Verma S.K.**<sup>#</sup> (2019) Zinc binding proteome of a phytopathogen *Xanthomonas translucens* pv. *undulosa*. *Royal Society Open Science*, The Royal Society Publishing. 6: 190369. **#Corresponding author.**
- Sharma A., Sharma D., Singh B., **Verma S.K.**<sup>#</sup> (2019) Bioinformatic exploration of metal-binding proteome of zoonotic pathogen *Orientia tsutsugamushi*, *Frontiers in Microbiology*, doi: 10.3389/fgene.2019.00797. **#Corresponding author.**
- Sharma A., Sharma D., **Verma S.K.**<sup>#</sup> (2019) *In silico* identification of copper-binding proteins of *Xanthomonas translucens* pv. *undulosa* for their probable role in plant-pathogen interactions. *Physiological and Molecular Plant Pathology*, Elsevier. 106: 187-195. **#Corresponding author.**
- Kumar P., Mishra A., Sharma H., Sharma D., Rahim M.S., Sharma M., Parveen A., Jain P., **Verma S.K.**, Rishi V., Roy R. (2018) Pivotal role of bZIPs in amylose biosynthesis by genome survey and transcriptome analysis in wheat (*Triticum aestivum* L.) mutants. *Scientific Reports*, Nature Publishing Group. 8:17240
- Sharma D., Sharma A., **Verma S.K.**, Singh B. (2018) Targeting metabolic pathways proteins of *Orientia tsutsugamushi* using combined hierarchical approach to combat scrub typhus. *Journal of Molecular Recognition*, Wiley, 32: e2766.
- Sharma A., Sharma D., **Verma S.K.**<sup>#</sup> (2018) *In silico* Study of Iron, Zinc and Copper Binding Proteins of *Pseudomonas syringae* pv. *lapsa*: Emphasis on Secreted Metalloproteins. *Frontiers in Microbiology*, 9: 1838. **#Corresponding author.**
- Sharma P., Sheikh I., Kumar S., **Verma S.K.**, Kumar R., Vyas P., Dhaliwal H.S. (2018) Precise transfers of genes for high grain iron and zinc from wheat-*Aegilops* substitution lines into wheat through pollen irradiation. *Molecular Breeding*, Springer. 38: 81. <https://doi.org/10.1007/s11032-018-0836-8>
- Sheikh I., Sharma P., **Verma S.K.**, Kumar S., Kumar N., Kumar S., Kumar R., Vyas P., Dhaliwal H.S. (2018) Development of intron targeted amplified polymorphic markers of metal homeostasis genes for monitoring their introgression from *Aegilops* species to wheat. *Molecular Breeding*, Springer. 38: 47. <https://doi.org/10.1007/s11032-018-0809-y>
- Sharma P., Sheikh I., Singh D., Kumar S., **Verma S.K.**, Kumar R., Vyas P., Dhaliwal H.S. (2017) Uptake, distribution, and remobilization of iron and zinc among various tissues of



wheat-*Aegilops* substitution lines at different growth stages. *Acta Physiologiae Plantarum*, Springer. 39: 185. <https://doi.org/10.1007/s11738-017-2456-z>

- **Verma S.K.**<sup>#</sup>, Sharma A., Sandhu P., Choudhary N., Sharma S., Acharya V., Akhter A<sup>#</sup>. (2017) Proteome scale identification, classification and structural analysis of iron-binding proteins in bread wheat. *Journal of Inorganic Biochemistry*, Elsevier. 170: 63-74. **#Corresponding author.**
- Sharma A., Sharma D., **Verma S.K.**<sup>#</sup> (2017) Proteome wide identification of iron binding proteins of *Xanthomonas translucens* pv. *undulosa*: Focus on secretory virulent proteins. *Biometals*, Springer. 30(1): 127-141. **#Corresponding author.**
- Singh J., Sheikh I., Sharma P., Kumar S., **Verma S.K.**, Kumar R., Mathpal P., Kumar S., Dhaliwal H.S. (2016) Transfer of HMW glutenin subunits from *Aegilops kotschy* to wheat through radiation hybridization. *Journal of Food Science and Technology*, Springer. 53(9): 3543-3549.
- **Verma S.K.**<sup>#</sup>, Kumar S., Sheikh I., Sharma P., Mathpal P., Malik S., Kundu P., Awasthi A., Kumar S., Prasad R., Dhaliwal H.S. (2016) Induced Homoeologous Pairing for Transfer of Useful Variability for High Grain Fe and Zn from *Aegilops kotschy* into Wheat. *Plant Molecular Biology Reporter*, Springer. 34(6): 1083-1094. **#Corresponding author.**
- **Verma S.K.**<sup>#</sup>, Kumar S., Sheikh I., Malik S., Mathpal P., Chugh V., Kumar S., Prasad R., Dhaliwal H.S. (2016) Transfer of useful variability of high grain iron and zinc from *Aegilops kotschy* into wheat through seed irradiation approach. *International Journal of Radiation Biology*, Taylor and Francis. 92(2): 132-139. **#Corresponding author.**
- Kumar S., **Verma S.K.**, Kundu P., Awasthi A., Sheikh I., Sangwan K., Prasad R., Dhaliwal H.S. (2016) Transferability and Polymorphism between group 7 chromosome specific SSR Markers of Bread Wheat and its Related Non-progenitor *Aegilops* Species. *Journal of Crop Improvement*, Taylor and Francis. 30(4): 433-446.
- Sheikh I., Sharma P., **Verma S.K.**, Kumar S., Malik S., Mathpal P., Kumar U., Singh D., Kumar S., Chugh V., Dhaliwal H.S. (2016) Characterization of interspecific hybrids of *Triticum aestivum* x *Aegilops* sp. without 5B chromosome for induced homoeologous pairing. *Journal of Plant Biochemistry and Biotechnology*, Springer. 25(1): 117-120.
- Paul P., Awasthi A., Kumar S., **Verma S.K.**, Prasad R., Dhaliwal H.S. (2012) Development of multiple embryos in polyembryonic insertional mutant *OsPE* of Rice. *Plant Cell Reports*, Springer. 31(10):1779-1787.

#### Research Projects Completed/Ongoing:

- **The Royal Society** funding £66000 from January 2018 to December 2019 to work at the John Innes Centre, Norwich, England, UK. (ongoing)
- **EMBO** Grant worth 3259.7 Euros from January-

February 2017 to work at the Biochimie et physiologie moléculaire des plantes, INRA, CNRS, Montpellier, France. (completed)

- **Department of Biotechnology (DBT)**, Ministry of Science and Technology, Government of India. Research project entitled: “Genome wide identification of metal binding proteins in bread wheat”. July 2016-July, 2019. Funding: Rs 2384600. (ongoing)

#### MPhil/PhD Supervised/Supervising:

##### Ph.D. Degree awarded

- **Ankita Sharma** (ICMR-SRF, UGC-NET, ICAR-NET)  
PhD thesis title: Studies on iron, zinc and copper binding proteins from bacterial pathogens of wheat. -**Degree awarded- August 2019.** *Currently working as ICMR-Research Associate at my research group.*

##### Ph.D. ongoing

- **Dixit Sharma** (ICMR-SRF, UGC-NET)  
PhD thesis title (tentative): Studies on metabolic pathway's and metal-binding proteins of scrub typhus pathogen “*Orientia tsutsugamushi*” for potential therapeutic candidates.

#### Participation in Seminars/Conferences:

- **Verma S.K.** Biofortification of Bread wheat with enhanced grain mineral micro-nutrient content through alien introgression in National Conference on Environmental Challenges, Human Health and Society (NCEHS-2016) at Maharaja College, University of Rajasthan (8<sup>th</sup>-10<sup>th</sup> September 2016). (Invited Speaker)
- **Verma S.K.**, Kumar S., Prasad R., Dhaliwal H.S. Powdery mildew resistance in wheat-*Aegilops* derivatives In National Seminar on Recent Advances in Fungal Biotechnology at Forest Research Institute, Dehradun, India. (22<sup>nd</sup> to 23<sup>rd</sup> September 2011). (Oral presentation)
- **Verma S.K.**, Kumar S., Khalko N.S., Choudhary H., Prasad R., Dhaliwal H.S.



Utilization of wild wheat relatives for improvement of nutritional traits in wheat to combat with “Hidden-Hunger” of human beings. In 1<sup>st</sup> World Congress for Man and Nature (WCMANU) at Gurukula Kangri Vishwavidyalaya Haridwar, India (11<sup>th</sup> to 13<sup>th</sup> November 2011). (Oral presentation)

- **Verma S.K.**, Girdharwal N., Prasad R., Dhaliwal H.S. Introgression and analysis of genes responsible for high grain iron and zinc content in wheat-*Aegilops* derivatives. In 6<sup>th</sup> Uttarakhand State Science and Technology Congress, India (14<sup>th</sup> to 16 November 2011). (Oral presentation)

## Workshops and Trainings attended

- **University of Cambridge**, Cambridge, United Kingdom.
  - Data Manipulation and Visualization in R. 12 March 2019
  - Transcriptome Analysis for Non-Model Organisms. 15-17 March 2019
- **Imperial College Business School, London & the Royal Society**, Buckinghamshire, United Kingdom
  - Leadership Effectiveness Course 13-15 March 2019
  - Royal Society Entrepreneurship Course 6-8 February 2019
  - Science in context 10-11 July 2019
- **The Royal Society**, London, United Kingdom
  - Writing about your research.
  - May 2018
- **The John Innes Centre**, Norwich, United Kingdom
  - Biological Safety Training Course- January 2018
  - Turbo Charge Your Writing- January 2018
  - Chemical Safety for Scientists- January 2018
  - An introduction to Phylogenetics- February 2018
  - Bioinformatics and how we learn it –

February 2018

- The Principles of Light Microscopy and Camera Technology- March 2018
- Practical Sessions in Light Microscopy for Basic Applications- March 2018
- Introduction to RNA-Seq- March 2018
- An introduction to working with wheat GEN workshop- March 2018
- Wheat Genomics Workshop - "An update on the current state of wheat genomics"- March 2018

- **Jawaharlal Nehru University, New Delhi, India**

- Human Resource Development Centre, 2nd Refresher Course in Life Sciences and Biotechnology, October 2016
- Academic Staff College, 94<sup>th</sup> Orientation Program, February-March 2015

- **European Bioinformatics Institute, Cambridge, United Kingdom**

- EMBO practical course on Plant Bioinformatics: Going OMICS". ESF-ENSS funded research networking program, June 2011

- **Chaudhary Charan Singh University, Meerut, Uttar-Pradesh, India.** Virus induced gene silencing (VIGS) in bread wheat Trainers: Prof. Kulvinder Singh Gill (Washington State University, USA) and Prof P.K. Gupta (CCSU, India), December 2011

- **CSIR-National Botanical Research Institute, Lucknow, India.** "The Study of dioecious medicinal plant *Tinospora cordifolia*" Supervisor: Dr. Nikhil Kumar, Scientist-E-II, May-August 2008

- **The Royal Society, United Kingdom**  
Role: Research Fellow (January 2018-December 2019)

- **Institutional Biosafety Committee (IBSC) of**

**Membership of Learned Societies/  
Professional Bodies:**



the Central University of Himachal Pradesh  
Role: Member Secretary (October 2015 to December 2017). Approved by the Department of Biotechnology, Ministry of Science and Technology, Government of India.

- **Indian Science Congress Association** (India)  
Role: Life Member
- **Society of Biological Chemists** (India)  
Role: Life Member
- **The Biochemical Society** (United Kingdom)  
Role: Member, March 2017 -till date
- **Newton International Fellow, The Royal Society (London)** to work at the John Innes Centre, Norwich United Kingdom on the topic “Genetic regulation of metal distribution in cereal crops” (January 2018 to December 2019)
- **EMBO Fellow, European Molecular Biology Organization** to work at the Biochimie et physiologie moléculaire des plantes, French National Institute for Agricultural Research (INRA), CNRS, Montpellier, France January-February 2017
- **Young Scientist Award** in Agriculture Sciences from Uttarakhand council for Science and Technology in 6<sup>th</sup> Uttarakhand State Science and Technology Congress –2011.
- **Young Scientist Award** from International Council for Man and Nature in 1<sup>st</sup> World Congress for Man and Nature 2011 (WCMANU).
- Qualified **CSIR- Junior Research Fellowship** four times.

#### Awards & Honours Received:



हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय

Central University of Himachal Pradesh

केन्द्रीय विश्वविद्यालय, एचपीसीआईएचएल, धरमशाला, जिला - कांगड़ा, हिमाचल प्रदेश - 176215

Camp Office, Near HPCA Cricket Stadium, Dharamshala, District Kangra (HP)-176215

Phone No. 01892 - 229574 Fax No. 01892 - 229331 E-mail ID: registrar.cuhp@gmail.com

File No. 4-1/CUHP/Acad./2010/Vol-VIII/477-8)

Dated: 12 February, 2021

**Director General,**

Indian Council of Medical Research,

V. Ramalingaswami Bhawan,

Ansari Nagar, New Delhi - 110029, India.

**Subject: Regarding transfer of ICMR project (Registration No. BIC/12(11)/2015).**

**Respected Sir/Madam,**

1. With reference to your Letter No. BIC/12(11)/2015 dated 04 September 2018, wherein Dr. Polamarasetty Aparoy (Assistant Professor, CUHP) has been awarded ICMR project entitled "Development of 12-LOX specific scoring function and pharmacophore model: Design and Biological evaluation of novel natural product derived inhibitors" to be hosted at School of Life Sciences, Central University of Himachal Pradesh (CUHP), Temporary Academic Block, Shahpur, Kangra-176206, Himachal Pradesh.

2. In this context, it is apprised that Dr. Polamarasetty Aparoy has joined Indian Institute of Petroleum Energy, Visakhapatnam on regular basis and has been confirmed at Indian Institute of Petroleum Energy, Visakhapatnam vide letter no IIPE/Estb/122/TS1011 dated 24.09.2020 (copy attached). Now, he has requested through email dated 01.02.2021 (copy attached) to transfer the above mentioned project from Central University of Himachal Pradesh to Indian Institute of Petroleum Energy, Visakhapatnam.

3. With reference to the request of Dr. Polamarasetty Aparoy, Central University of Himachal Pradesh (Previous Host Institute) has no issues/objections for transferring the project to Indian Institute of Petroleum Energy, Visakhapatnam (Present Institute).

Yours Sincerely,

(Hem Raj)  
Registrar

**Encl: As above**

**Copy to the following for information and further necessary action:**

1. The Administrative Officer for Director General, ICMR, V. Ramalingaswami Bhawan, Ansari Nagar, New Delhi - 110029.
2. Dr. Polamarasetty Aparoy, Assistant Professor, Indian Institute of Petroleum Energy, Visakhapatnam, Andhra Pradesh- 531035.
3. The Finance Officer, Dharmadhar Parisar- II, CUHP, Dharamshala.
4. Guard File.

Registrar





## Yusuf Akhter

Citations	1821	1334
h-index	23	20
i10-index	53	49

### [A review on remediation of cyanide containing industrial wastes using biological systems with special reference to enzymatic degradation](#)

M Sharma, Y Akhter, S Chatterjee

World Journal of Microbiology and Biotechnology 35 (5), 1-14

### [The molecular link between tyrosol binding to tri6 transcriptional regulator and downregulation of trichothecene biosynthesis](#)

S Sharma, M Ahmed, Y Akhter

Biochimie 160, 14-23

### [PDZ domains across the microbial world: Molecular link to the proteases, stress response, and protein synthesis](#)

VY Muley, Y Akhter, S Galande

Genome biology and evolution 11 (3), 644-659

### [Biodegradation of di-n-butyl phthalate by psychrotolerant Sphingobium yanoikuyae strain P4 and protein structural analysis of carboxylesterase involved in the pathway](#)

R Mahajan, S Verma, M Kushwaha, D Singh, Y Akhter, S Chatterjee

International journal of biological macromolecules 122, 806-816

### [Peptidyl-prolyl isomerase-B is involved in Mycobacterium tuberculosis biofilm formation and a generic target for drug repurposing-based intervention](#)

A Kumar, A Alam, S Grover, S Pandey, D Tripathi, M Kumari, M Rani, ...

npj Biofilms and Microbiomes 5 (1), 1-11

### [Evaluation of pyrrole-2, 3-dicarboxylate derivatives: Synthesis, DFT analysis, molecular docking, virtual screening and in vitro anti-hepatic cancer study](#)

I Azad, A Jafri, T Khan, Y Akhter, M Arshad, F Hassan, N Ahmad, AR Khan, ...

Journal of Molecular Structure 1176, 314-334

### [Attenuation of neuroblastoma cell growth by nisin is mediated by modulation of phase behavior and enhanced cell membrane fluidity](#)

A Prince, A Tiwari, P Ror, P Sandhu, J Roy, S Jha, B Mallick, Y Akhter, ...

Physical Chemistry Chemical Physics 21 (4), 1980-1987

### [Uddanam kidney nephropathy under the light of metagenomics perspective](#)

PV Parvati Sai Arun, C Obula Reddy, Y Akhter

SN Comprehensive Clinical Medicine 1 (1), 23-25

**Free tryptophan residues inhibit quorum sensing of *Pseudomonas aeruginosa*: a potential approach to inhibit the development of microbial biofilm**

P Chakraborty, AV Daware, M Kumari, A Chatterjee, D Bhattacharyya, ...  
Archives of microbiology 200 (10), 1419-1425

**Role of telomeric TRF2 in orosphere formation and CSC phenotype maintenance through efficient DNA repair pathway and its correlation with recurrence in OSCC**

A Saha, S Roy, M Kar, S Roy, S Thakur, SS Padhi, Y Akhter, B Banerjee  
Stem Cell Reviews and Reports 14 (6), 871-887

**The role of p38 MAPK pathway in p53 compromised state and telomere mediated DNA damage response**

S Roy, S Roy, A Rana, Y Akhter, MP Hande, B Banerjee  
Mutation Research/Genetic Toxicology and Environmental Mutagenesis 836, 89-97

**Modulation of *S. aureus* and *P. aeruginosa* biofilm: an in vitro study with new coumarin derivatives**

T Das, MC Das, A Das, S Bhowmik, P Sandhu, Y Akhter, S Bhattacharjee, ...  
World Journal of Microbiology and Biotechnology 34 (11), 1-18

**Augmentation of cytochrome P450 monooxygenase catalysis on its interaction with NADPH-cytochrome P450 reductase FMN domain from *Trichoderma brevicompactum***

R Hussain, M Ahmed, TA Khan, Y Akhter  
The International Journal of Biochemistry & Cell Biology 103, 74-80

**Molecular insights into the activity and mechanism of cyanide hydratase enzyme associated with cyanide biodegradation by *Serratia marcescens***

M Kushwaha, V Kumar, R Mahajan, TC Bhalla, S Chatterjee, Y Akhter  
Archives of microbiology 200 (6), 971-977

**p38 MAPK pathway and its interaction with TRF2 in cisplatin induced chemotherapeutic response in head and neck cancer**

S Roy, S Roy, M Kar, S Thakur, Y Akhter, A Kumar, F Delogu, S Padhi, ...  
Oncogenesis 7 (7), 1-16

**Comparative proteome analysis reveals pathogen specific outer membrane proteins of *Leptospira***

G Dhandapani, T Sikha, A Rana, R Brahma, Y Akhter, ...  
Proteins: Structure, Function, and Bioinformatics 86 (7), 712-722

**The revelation of selective sphingolipid pathway inhibition mechanism on fumonisin toxin binding to ceramide synthases in susceptible organisms and survival mechanism in ...**

S Sharma, M Ahmed, Y Akhter  
Biochimie 149, 41-50

**Identification of a unique loss-of-function mutation in IGF1R and a crosstalk between IGF1R and Wnt/ $\beta$ -catenin signaling pathways**

G Jamwal, G Singh, MS Dar, P Singh, N Bano, SH Syed, P Sandhu, ...  
Biochimica et Biophysica Acta (BBA)-Molecular Cell Research 1865 (6), 920-931

**Exploring the novel heterocyclic derivatives as lead molecules for design and development of potent anticancer agents**

I Azad, M Nasibullah, T Khan, F Hassan, Y Akhter  
Journal of Molecular Graphics and Modelling 81, 211-228

### System-wide coordinates of higher order functions in host-pathogen environment upon *Mycobacterium tuberculosis* infection

PV Parvati Sai Arun, SK Miryala, A Rana, S Kurukuti, Y Akhter, ...  
Scientific Reports 8 (1), 1-12

### Corrigendum to " Targets of ubiquitin like system in mycobacteria and related actinobacterial species"[Microbiol. Res. 204 (November 2017) 9-29]

Y Akhter, S Thakur  
Microbiological research 207, 65

### Bentham Science Publishers would like to thank and appreciate the co-operation from all reviewers (Editorial Board & External Reviewers) for their constructive comments and ...

Q Abbas, M Ahmad, N Ahmad, I Ahmed, N Akhtar, Y Akhter, MA Alam, ...  
Protein & Peptide Letters 25 (12), 1163

### Recent trends in system-scale integrative approaches for discovering protective antigens against mycobacterial pathogens

A Rana, S Thakur, G Kumar, Y Akhter  
Frontiers in Genetics, 572

### Mutually exclusive locales for N-linked glycans and disorder in glycoproteins

A Singh, I Kumari, D Pally, S Goutham, S Ghosh, Y Akhter, R Bhat  
bioRxiv, 443143

### Vitexin alters *Staphylococcus aureus* surface hydrophobicity to interfere with biofilm formation

MC Das, A Das, S Samaddar, AV Daware, C Ghosh, S Acharjee, ...  
bioRxiv, 301473

### Evolution of catalytic microenvironment governs substrate and product diversity in trichodiene synthase and other terpene fold enzymes

I Kumari, M Ahmed, Y Akhter  
Biochimie 144, 9-20

### Evolution of structural fitness and multifunctional aspects of mycobacterial RND family transporters

P Sandhu, Y Akhter  
Archives of microbiology 200 (1), 19-31

### Catalytic diversity and homotropic allostery of two Cytochrome P450 monooxygenase like proteins from *Trichoderma brevicompactum*

R Hussain, I Kumari, S Sharma, M Ahmed, TA Khan, Y Akhter  
JBIC Journal of Biological Inorganic Chemistry 22 (8), 1197-1209

### Targets of ubiquitin like system in mycobacteria and related actinobacterial species

Y Akhter, S Thakur  
Microbiological Research 204, 9-29

### Molecular dynamics simulations, challenges and opportunities: a Biologist's prospective

I Kumari, P Sandhu, M Ahmed, Y Akhter

Current Protein and Peptide Science 18 (11), 1163-1179

### Global Proteomics Conference

M Alaidarous, M Kashif, PP Manna, Y Akhter, A Rub  
Proteomics 2017

### Identification of novel inhibitors against UDP-galactopyranose mutase to combat leishmaniasis

M Kashif, S Tabrez, A Husein, M Arish, P Kalaiarasan, PP Manna, ...  
Journal of Cellular Biochemistry

### Understanding the plant–microbe interaction molecular mechanisms for better exploitation of bio-control agents to enhance sustainable agricultural practices

I Kumari, M Ahmed, Y Akhter  
Canadian Journal of Biotechnology 1 (Special), 170

### Exploration of Phytoconstituents from *Mussaenda roxburghii* and Studies of Their Antibiofilm Effect

R Ghosh, MC Das, A Sarkar, A Das, P Sandhu, B Dinda, Y Akhter, ...  
Chemistry & Biodiversity 14 (10), e1700165

### Antileishmanial and immunomodulatory activities of lupeol, a triterpene compound isolated from *Sterculia villosa*

A Das, JJ Jawed, MC Das, P Sandhu, UC De, B Dinda, Y Akhter, ...  
International journal of antimicrobial agents 50 (4), 512-522

### Genome wide identification of cotton (*Gossypium hirsutum*)-encoded microRNA targets against Cotton leaf curl Burewala virus

Shweta, Y Akhter, JA Khan  
Gene

### Implication of sphingosine-1-phosphate signaling in diseases: molecular mechanism and therapeutic strategies

M Arish, M Alaidarous, R Ali, Y Akhter, A Rub  
Journal of Receptors and Signal Transduction 37 (5), 437-446

### Species specific substrates and products choices of 4-O-acetyltransferase from *Trichoderma brevicompactum*

S Sharma, I Kumari, R Hussain, M Ahmed, Y Akhter  
Enzyme and Microbial Technology 104, 29-36

### Potential of antibiotic against *Pseudomonas aeruginosa* biofilm: a study with plumbagin and gentamicin

P Gupta, A Sarkar, P Sandhu, A Daware, MC Das, Y Akhter, ...  
Journal of applied microbiology 123 (1), 246-261

### Genome scale identification, structural analysis, and classification of periplasmic binding proteins from *Mycobacterium tuberculosis*

P Sandhu, M Kumari, K Naini, Y Akhter  
Current Genetics 63 (3), 553-576

### Siderophore transport by MmpL5-MmpS5 protein complex in *Mycobacterium tuberculosis*

P Sandhu, Y Akhter



Journal of inorganic biochemistry 170, 75-84

### **Proteome scale identification, classification and structural analysis of iron-binding proteins in bread wheat**

SK Verma, A Sharma, P Sandhu, N Choudhary, S Sharma, V Acharya, ...

Journal of Inorganic Biochemistry 170, 63-74

### **Structural basis of transport function in major facilitator superfamily protein from *Trichoderma harzianum***

N Chaudhary, P Sandhu, M Ahmed, Y Akhter

International journal of biological macromolecules 95, 1091-1100

### **Antibiofilm activity of *Parkia javanica* against *Pseudomonas aeruginosa*: a study with fruit extract**

A Das, MC Das, P Sandhu, N Das, P Tribedi, UC De, Y Akhter, ...

RSC advances 7 (9), 5497-5513

### **Screening of Novel Inhibitors Against *Leishmania donovani* Calcium ion Channel to Fight Leishmaniasis**

M Kashif, PP Manna, Y Akhter, M Alaidarous, A Rub

Infectious Disorders-Drug Targets 16, 1-9

### **Excavating the surface-associated and secretory proteome of *Mycobacterium leprae* for identifying vaccines and diagnostic markers relevant immunodominant epitopes**

A Rana, S Thakur, N Bhardwaj, D Kumar, Y Akhter

Pathogens and Disease 74 (9)

### **Lipid-II independent antimicrobial mechanism of nisin depends on its crowding and degree of oligomerization**

A Prince, P Sandhu, P Ror, E Dash, S Sharma, M Arakha, S Jha, Y Akhter, ...

Scientific reports 6 (1), 1-15

### **Deciphering the protein translation inhibition and coping mechanism of trichothecene toxin in resistant fungi**

I Kumari, M Ahmed, Y Akhter

The International Journal of Biochemistry & Cell Biology 78, 370-376

### **Terminal regions of $\beta$ -catenin are critical for regulating its adhesion and transcription functions**

MS Dar, P Singh, G Singh, G Jamwal, SS Hussain, A Rana, Y Akhter, ...

Biochimica et Biophysica Acta (BBA)-Molecular Cell Research 1863 (9), 2345-2357

### **Multifaceted impact of trichothecene metabolites on plant-microbe interactions and human health**

I Kumari, M Ahmed, Y Akhter

Applied microbiology and biotechnology 100 (13), 5759-5771

### **Proteome scale census of major facilitator superfamily transporters in *Trichoderma reesei* using protein sequence and structure based classification enhanced ranking**

N Chaudhary, I Kumari, P Sandhu, M Ahmed, Y Akhter

Gene 585 (1), 166-176

### **Members of Second Academic Council**

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**Structural and mechanistic analysis of engineered trichodiene synthase enzymes from *Trichoderma harzianum*: towards higher catalytic activities empowering sustainable agriculture**

I Kumari, N Chaudhary, P Sandhu, M Ahmed, Y Akhter

Journal of Biomolecular Structure and Dynamics 34 (6), 1176-1189

**A multi-subunit based, thermodynamically stable model vaccine using combined immunoinformatics and protein structure based approach**

A Rana, Y Akhter

Immunobiology 221 (4), 544-557

**Attenuation of *Pseudomonas aeruginosa* biofilm formation by Vitexin: A combinatorial study with azithromycin and gentamicin**

MC Das, P Sandhu, P Gupta, P Rudrapaul, UC De, P Tribedi, Y Akhter, ...

Scientific reports 6 (1), 1-13

**The drug binding sites and transport mechanism of the RND pumps from *Mycobacterium tuberculosis*: Insights from molecular dynamics simulations**

P Sandhu, Y Akhter

Archives of biochemistry and biophysics 592, 38-49

**Structural basis of transport function in major facilitator**

NCPSM Ahmed

**Sphingosine-1-phosphate signaling: unraveling its role as a drug target against infectious diseases**

M Arish, A Husein, M Kashif, M Saleem, Y Akhter, A Rub

Drug discovery today 21 (1), 133-142



# Shailender Kumar Verma

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Pan-proteome profiling of emerging and re-emerging zoonotic pathogen <i>Orientia tsutsugamushi</i> for getting insight in to microbial pathogenesis D Sharma, A Sharma, B Singh, SK Verma Microbial Pathogenesis, 105103	2	2021
Genome-wide analysis of RING-type E3 ligase family identifies potential candidates regulating high amylose starch biosynthesis in wheat ( <i>Triticum aestivum</i> L.) A Parveen, MS Rahim, A Sharma, P Kumar, V Fandade, P Kumar, ... Scientific Reports 11 (11461), 1-17	2	2021
Subcellular dynamics studies of iron reveal how tissue-specific distribution patterns are established in developing wheat grains S Sheraz, Y Wan, E Venter, SK Verma, Q Xiong, J Waites, JM Connorton, ... New Phytologist, <a href="https://doi.org/10.1111/nph.17440">https://doi.org/10.1111/nph.17440</a>	3	2021
Genome-wide identification and expression profiling of basic leucine zipper transcription factors following abiotic stresses in potato ( <i>Solanum tuberosum</i> L.) P Kumar, P Kumar, D Sharma, SK Verma, D Halterman, A Kumar Plos one 16 (3), e0247864	2	2021
Identification and characterization of long non-coding RNAs regulating resistant starch biosynthesis in bread wheat ( <i>Triticum aestivum</i> L.) A Madhawan, A Sharma, A Bhandawat, MS Rahim, P Kumar, A Mishra, ... Genomics 112 (5), 3065-3074	6	2020
Zinc binding proteome of a phytopathogen <i>Xanthomonas translucens</i> pv. <i>undulosa</i> A Sharma, D Sharma, SK Verma Royal Society Open Science 6 (9), 1-20	6	2019
Bioinformatic Exploration of Metal-Binding Proteome of Zoonotic Pathogen <i>Orientia tsutsugamushi</i> D Sharma, A Sharma, B Singh, SK Verma Frontiers in Genetics 10 (797), 1-17	6	2019

TITLE	CITED BY	YEAR
In silico identification of copper-binding proteins of <i>Xanthomonas translucens</i> pv.undulosa for their probable role in plant-pathogen interactions A Sharma, D Sharma, SK Verma Physiological and Molecular Plant Pathology	6	2019
Pivotal role of bZIPs in amylose biosynthesis by genome survey and transcriptome analysis in wheat ( <i>Triticum aestivum</i> L.) mutants. P Kumar, A Mishra, H Sharma, D Sharma, M Saba Rahim, M Sharma, ... Scientific Reports 8 (17240), 1-15	18	2018
Targeting metabolic pathways proteins of <i>Orientia tsutsugamushi</i> using combined hierarchical approach to combat scrub typhus. D Sharma, A Sharma, SK Verma, B Singh Journal of Molecular Recognition, 1-13	11	2018
In silico Study of Iron, Zinc and Copper Binding Proteins of <i>Pseudomonas syringae</i> pv. lapsa: Emphasis on Secreted Metalloproteins A Sharma, D Sharma, SK Verma Frontiers in Microbiology, 1-19	13	2018
Precise transfers of genes for high grain iron and zinc from wheat-Aegilops substitution lines into wheat through pollen irradiation P Sharma, I Sheikh, S Kumar, SK Verma, R Kumar, P Vyas, HS Dhaliwal Molecular Breeding 38 (81), doi.org/10.1007/s11032-018-0836-8	12	2018
Development of intron targeted amplified polymorphic markers of metal homeostasis genes for monitoring their introgression from <i>Aegilops</i> species to wheat I Sheikh, P Sharma, SK Verma, S Kumar, N Kumar, S Kumar, R Kumar, ... Molecular Breeding 38 (47), doi.org/10.1007/s11032-018-0809-y	7	2018
Uptake, distribution, and remobilization of iron and zinc among various tissues of wheat– <i>Aegilops</i> substitution lines at different growth stages P Sharma, I Sheikh, D Singh, S Kumar, SK Verma, R Kumar, P Vyas, ... Acta Physiologiae Plantarum 39 (8), 1-12	9	2017
Proteome scale identification, classification and structural analysis of iron-binding proteins in bread wheat SK Verma, A Sharma, P Sandhu, N Choudhary, S Sharma, V Acharya, ... Journal of Inorganic Biochemistry 170, 63-74	7	2017
Proteome wide identification of iron binding proteins of <i>Xanthomonas translucens</i> pv. undulosa: focus on secretory virulent proteins A Sharma, D Sharma, SK Verma BioMetals 30 (1), 127-141	12	2017
Transfer of HMW glutenin subunits from <i>Aegilops kotschy</i> to wheat through radiation hybridization J Singh, I Sheikh, P Sharma, S Kumar, SK Verma, R Kumar, P Mathpal, ... Journal of Food Science and Technology	6	2016



TITLE	CITED BY	YEAR
Transferability and Polymorphism Between Group 7 Chromosome Specific Simple Sequence Repeat (SSR) Markers of Bread Wheat and Its Related Non-Progenitor Aegilops Species S Kumar, SK Verma, P Kundu, A Awasthi, I Sheikh, K Sangwan, R Prasad, ... Journal of Crop Improvement 30 (4), 433-446	4	2016
Induced Homoeologous Pairing for Transfer of Useful Variability for High Grain Fe and Zn from Aegilops kotschy into Wheat SK Verma, S Kumar, P Sheikh, Imran, Sharma, P Mathpal, S Malik, ... Plant Molecular Biology Reporter 34 (6), 1083-1094	12	2016
Transfer of useful variability of high grain iron and zinc from Aegilops kotschy into wheat through seed irradiation approach SK Verma, S Kumar, I Sheikh, S Malik, P Mathpal, V Chugh, S Kumar, ... International Journal of Radiation Biology 92 (3), 132-139	26	2016
Characterization of interspecific hybrids of Triticum aestivum x Aegilops sp. without 5B chromosome for induced homoeologous pairing I Sheikh, P Sharma, SK Verma, S Kumar, S Malik, P Mathpal, U Kumar, ... Journal of plant biochemistry and biotechnology 25 (1), 117-120	10	2016
Development of multiple embryos in polyembryonic insertional mutant OsPE of rice P Paul, A Awasthi, S Kumar, SK Verma, R Prasad, HS Dhaliwal Plant cell reports 31 (10), 1779-1787	7	2012
Abnormal endosperm development causes female sterility in rice insertional mutant OsAPC6 A Awasthi, P Paul, S Kumar, SK Verma, R Prasad, HS Dhaliwal Plant science 183, 167-174	30	2012



**aparoy p**

Assistant Professor in Biology, Indian Institute of Petroleum & Energy, Visakhapatnam

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<a href="#">Application of per-residue energy decomposition to identify the set of amino acids critical for in silico prediction of COX-2 inhibitory activity</a> N Chaudhary, P Aparoy Heliyon 6 (10), e04944	3	2020
<a href="#">MM-PBSA and per-residue decomposition energy studies on 7-Phenyl-imidazoquinolin-4 (5H)-one derivatives: Identification of crucial site points at microsomal prostaglandin E ...</a> A Gupta, N Chaudhary, P Aparoy International journal of biological macromolecules 119, 352-359	15	2018
<a href="#">Role of topological, electronic, geometrical, constitutional and quantum chemical based descriptors in QSAR: mPGES-1 as a case study</a> A Gupta, V Kumar, P Aparoy Current Topics in Medicinal Chemistry 18 (13), 1075-1090	7	2018
<a href="#">Deciphering the mechanism behind the varied binding activities of COXIBs through Molecular Dynamic Simulations, MM-PBSA binding energy calculations and per-residue energy ...</a> N Chaudhary, P Aparoy Journal of Biomolecular Structure and Dynamics 35 (4), 868-882	30	2017
<a href="#">Insights into the structure activity relationship of mPGES-1 inhibitors: hints for better inhibitor design</a> A Gupta, P Aparoy International journal of biological macromolecules 88, 624-632	6	2016



# INDIAN COUNCIL OF MEDICAL RESEARCH

(Ministry of Health & Family Welfare, Govt. of India)

V. Ramalingaswami Bhawan, Ansari Nagar,  
New Delhi-110029

Correspondence at ICMR Campus II

Tuberculosis Association of India, 1<sup>st</sup> Floor, 3 Red Cross Road, New Delhi-110001

No. 3/1/2/97/2018-Nut.

Dated: 13/11/2018

Dr. Shailender Kumar Verma  
Assistant Professor,  
School of Life Sciences,  
Central University of Himachal Pradesh,  
Temporary Academic Book,  
Shahpur, Kangra,  
Himachal Pradesh, Pin:176206

Subject: Award of Sr. Research fellowship to Mrs. Ankita Sharma, project entitled, "Proteome scale investigation of metalloproteins in staple foods for the enrichment of mineral micronutrients".

Sir,

I am glad to inform you that the Council has awarded SRF to Mrs. Ankita Sharma, on a stipend of Rs. 28,000/- p.m. to carry out research on the project mentioned above under your guidance. H.R.A. and Medical reimbursement will be paid as per rules of your University/College/Institute.

The award of SRF will be subject to the following terms and condition:

**TENURE:** It will be tenable for one year only from the date of joining duty and further extension will be on yearly basis subject to maximum of **Three Years & the proposed work should be completed within approved duration. No further extension beyond approved duration will be considered by the Council.**

The event of his/her leaving before completing one year on the fellowship, he/she may be required to refund the stipend drawn by him/her from the date of joining to the date of leaving the fellowship.

**PRIVATE PRACTICE:** Private Practice of any kind, or taking up any appointment even in an honorary capacity during the fellowship is not permitted.

**ADMINISTRATIVE CONTROL:** The candidate will be under the administrative control of the Institution where he/she works, and will also be subject to the rules and regulations of the Institute.

**LEAVE:** Leave will be admissible according to the rules of the Institution/University. However in the case of female research fellows /Associates 180 day's maternity leave with stipend will be admissible. Research Fellow/Associates are not entitled for vacation normally admissible to the staff of an Institute /University"

Contd.....

(1)

Self Attested  
Ankita Sharma

# INDIAN COUNCIL OF MEDICAL RESEARCH



(Ministry of Health & Family Welfare, Govt. of India)

V. Ramalingaswami Bhawan, Ansari Nagar,

New Delhi-110029

Correspondence at ICMR Campus II

Tuberculosis Association of India, 1<sup>st</sup> Floor, 3 Red Cross Road, New Delhi-110001

No. 3/1/2/97/2018-(Nut).

Dated: 11/09/2019

Dr. Shailender Kumar Verma  
Assistant Professor,  
School of Life Sciences,  
Central University of Himachal Pradesh,  
Temporary Academic Book,  
Shahpur, Kangra,  
Himachal Pradesh, Pin:176206

Subject: Project entitled, "Proteome scale investigation of metalloproteins in staple foods for the enrichment of mineral micronutrients" to Mrs. Ankita Sharma /SRF.

Sir,

This is with reference to your letter dated 23.08.2019 on the above mentioned subject.

I am directed to inform you that the Competent Authority has approved for the up-gradation from SRF to RA w.e.f 09.08.2019.

Yours faithfully,

*Self Attested  
Ankita Sharma*

*Ashwini*  
(Anita Sharma)  
Section Officer  
For Director General

Copy to;

Mrs. Ankita Sharma /SRF, Central University of Himachal Pradesh, Temporary Academic Book, Shahpur, Kangra, Himachal Pradesh, Pin:176206.





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बी. रामलिंगस्वामी भवन, अंसारी नगर, पोस्ट बॉक्स 4911, नई दिल्ली - 110029  
V. RAMALINGASWAMI BHAWAN, ANSARI NAGAR, POST BOX 4911, NEW DELHI - 110029

No.BIC/11(23)/2014

Dated: 21-07-2017

To

Dr. Yusuf Akhter,  
Assistant Professor,  
School of Life Science,  
Central University Himachal Pradesh,  
Temporary Academic Block, Shahpur,  
Kangra - 176206 (Himachal Pradesh)

Subject: Upgradation of fellowship of Ms. Aarti Rana, from SRF to Research Associate after completing Ph.D in the project entitled, "Genome-Wide Identification of Outer membrane Proteins in pathogenic mycobacterial species: a repertoire of candidate immunogens for translational Medicine", Under your Guidance.

Sir,

Please refer to your letter dated 6/02/2017 on the above mentioned subject.

Considering the circumstances stated by you, the Director-General, ICMR sanctions the upgradation of the fellowship of Ms. Aarti Rana, from Senior Research Fellow to Research Associate w.e.f. 25-01-2017 on her acquiring higher qualification Ph.D Degree. She is entitled to draw stipend of Rs. 36,000/-p.m.+ HRA @ 10% with contingent grant of Rs. 20,000/-p.a.

The other terms & conditions of the fellowship remains the same as laid down in our letter dated 04-02-2015.

Yours faithfully,

(T. Ramani)  
Sr. Administrator Officer,  
For Director-General

Copy to:-

1. The Dean, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur, District - Kangra, Himachal Pradesh - 176206.
2. Account Section -V, ICMR
3. Account Section - I, ICMR
- ✓ 4. Research Fellow: Ms. Aarti Rana, Research Associate, School of Life Science, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur, District - Kangra, Himachal Pradesh - 176206.
5. IRIS ID No. - 2014-24180

*T. Ramani*  
For Director-General



भारतीय आयुर्विज्ञान अनुसंधान परिषद  
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वी. रामलिंगस्वामी भवन, अंसारी नगर, पोस्ट बॉक्स 4911, नई दिल्ली - 110029  
V. RAMALINGASWAMI BHAWAN, ANSARI NAGAR, POST BOX 4911, NEW DELHI - 110029

No.BIC/11(23)/2014

Dated: 21-07-2017

To,

The Dean,  
School of Life Science,  
Central University Himachal Pradesh,  
Temporary Academic Block, Shahpur,  
Kangra - 176206.

Subject:-Payment of arrears on account of revision of stipend of fellowship in respect of Ms. Aarti Rana upgraded the post from SRF to Research Associate w.e.f. 25/01/2017.

Dear Sir,

Reference this office letter of even No. dated 22-05-2017.

The Director General, ICMR sanctions the payment of arrears amounting to Rs. 59,815/- (Rupees fifty nine thousand eight hundred fifteen only) for the period 25-01-2017 to 16-08-2017 on account of revision of fellowship stipend as per details given below:-

Period	Due	Drawn	Difference
25/1/2017 to 31/01/2017 (7 days)	@Rs.36000/-p.m. +HRA10%=8942/-	@Rs.28000/-p.m. +HRA10%= 6955/-	1987/-
01/02/2017 to 16/02/2017 (16 days)	@Rs.36000/-p.m. +HRA10%=22628/-	@Rs.28000/-p.m. +HRA10%= 17600/-	5028/-
17/02/2017 to 16/08/2017 (six months)	@Rs.36000/-p.m. +HRA10%=237600/-	@Rs.28000/-p.m. +HRA10%= 184800/-	52800/-
Grant Total			Rs. 59815/-

Yours faithfully,

(T. Ramani)  
Sr. Administrative Officer  
For Director-General

Copy to:- 1. Accounts Section-V, ICMR together with a formal bill for Rs. 59815/- for payment at an early date to The Central University of Himachal Pradesh.

2. Guide of the fellow: Dr. Yusuf Akhter, Assistant Professor, School of Life Sciences, Central University of Himachal Pradesh, Shahpur, Kangra, Himachal Pradesh - 176206.

3. Research fellow: Ms. Aarti Rana, RA, School of Life Science, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur, Kangra, Himachal Pradesh - 176206.

4. IRIS Cell No. 2014-24180

Sr. Administrative Officer  
For Director-General





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Subject: Upgradation of fellowship of Ms. Aarti Rana, from SRF to Research Associate after completing Ph.D in the project entitled, "Genome-Wide Identification of Outer membrane Proteins in pathogenic mycobacterial species: a repertoire of candidate immunogens for translational Medicine", Under your Guidance.

Sir,

Please refer to your letter dated 6/02/2017 on the above mentioned subject.

Considering the circumstances stated by you, the Director-General, ICMR sanctions the upgradation of the fellowship of Ms. Aarti Rana, from Senior Research Fellow to Research Associate w.e.f. 25-01-2017 on her acquiring higher qualification Ph.D Degree. She is entitled to draw stipend of Rs. 36,000/-p.m.+ HRA @ 10% with contingent grant of Rs. 20,000/-p.a.

The other terms & conditions of the fellowship remains the same as laid down in our letter dated 04-02-2015.

Yours faithfully,

(T. Ramani)  
Sr. Administrator Officer,  
For Director-General

Copy to:-

1. The Dean, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur, District - Kangra, Himachal Pradesh - 176206.
2. Account Section - V, ICMR
3. Account Section - I, ICMR
4. Research Fellow: Ms. Aarti Rana, Research Associate, School of Life Science, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur, District - Kangra, Himachal Pradesh - 176206.
5. IRIS ID No. - 2014-24180

*T. Ramani*  
For Director-General



**SCHOOL OF BIOTECHNOLOGY**  
JAWAHARLAL NEHRU UNIVERSITY  
NEW DELHI - 110 067, INDIA

**Pawan K. Dhar, Ph.D.**  
*Professor and Dean*

July 23, 2020

TO WHOM IT MAY CONCERN

This is to certify that **Dr. Vikram Singh** (Assistant Professor, Centre for Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh) delivered a talk on the “*Computational Design of Synthetic Gene Circuits*” in the “International Biological Engineering Meeting (iBEM 1.0)” held at JNU, New Delhi, from March 26 -28, 2017.

I was one of the Co Organizers of the iBEM meeting, 2017. Thank you.

A handwritten signature in blue ink, appearing to read 'Pawar' or similar, with a stylized flourish at the end.

**Pawan K. Dhar, Ph.D.**  
Dean, School of Biotechnology





# NCEHS-2016

Presented To



**Dr. Shailender Kumar Verma**  
Centre for Computational Biology and Bioinformatics  
School of Life Sciences, Central University of Himachal Pradesh

for delivering Lecture as

***Invited Speaker***

in

**National Conference on  
ENVIRONMENTAL CHALLENGES, HUMAN HEALTH AND SOCIETY**  
September 8-10, 2016 | Jaipur





# NCEHS-2016

Presented To



**Dr. Shailender Kumar Verma**  
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School of Life Sciences, Central University of Himachal Pradesh

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**National Conference on  
ENVIRONMENTAL CHALLENGES, HUMAN HEALTH AND SOCIETY**  
September 8-10, 2016 | Jaipur







# GOVERNMENT COLLEGE OF TEACHER EDUCATION

## DHARAMSHALA, DISTRICT KANGRA (H.P.) 176215

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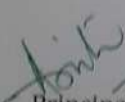
Date: 15/02/2020

## TO WHOM IT MAY CONCERN

This is to certify that **Dr. Vikram Singh**, Assistant Professor, Central University, Shahpur, District Kangra, H.P. delivered two lectures as resource person on topics *"Introduction to Network Pharmacology"* and *"Network Pharmacological Evaluation of Antiepileptic Ayurvedic Herbs"* on dated **10<sup>th</sup> December, 2019** during the In-Service Teachers Training Programme (Capacity Building) for newly appointed/promoted/regular PGT's/Lecture's (Biology) School Cadre of six districts of H.P. w.e.f. 9<sup>th</sup> December, 2019 to 14<sup>th</sup> December, 2019 (One Week) organized by GCTE Dharamshala as a nodal agency of Department of Higher Education, Govt. of Himachal Pradesh under the Training and Development Policy of Department of Education, 2012, Govt. of H.P.

The total 23 participants were present in this training programme.

  
(Reenu Chaudhary)  
Programme Coordinator

  
Principal  
Govt. College of Teacher Education  
Dharamshala (Kangra) H.P. 176215  
प्राचार्य  
राजकीय अध्यापक शिक्षा महाविद्यालय  
धर्मशाला जिला कांगड़ा (हि0प्र0)



Vikram Singh <vikramsingh.jnu@gmail.com>

---

## invitation

---

**ALok** <foralok@gmail.com>

Sat, Sep 22, 2018 at 1:30 PM

To: Vikram Singh <vikramsingh.jnu@gmail.com>

To  
Dr. Vikram Singh  
Assistant Professor,  
Centre for Computational Biology and Bioinformatics  
School of Life Sciences  
Central University of Himachal Pradesh  
Shahpur, Kangra - 176206

Dear Dr. Singh,

We are pleased to inform you that School of Computational and Integrative Sciences (SCIS) of Jawaharlal Nehru University, New Delhi is organising a symposium named "Back to Future-II), highlighting systems approach to Biology, on 29th Sep 2018.

We are very much keen that you could be one of the speakers for this symposium for the benefit of the participants.

Kindly consider this invitation favourably and send me a line in confirmation for further developments. Please also share with us title of the talk as early as possible.

Thanks very much,  
With best regards,

On behalf of organizing team,  
Dr. Alok Srivastava  
Assistant Professor  
Amity Institute of Integrative Sciences and Health  
Amity University Haryana  
Gurgaon, Haryana, India 122413

--

\*\*\*\*\*  
Alok Srivastava  
Assistant Professor  
Amity Institute of Integrative Sciences and Health  
Amity University Haryana  
Gurgaon, Haryana, India 122413  
\*\*\*\*\*



# जम्मू केंद्रीय विश्वविद्यालय CENTRAL UNIVERSITY OF JAMMU

Rahya-Suchani (Bagla), Samba-181143, J&K, India

National Conference

on

Recent Advances in Experimental and Theoretical Physics (RAETP-2018)

April 17-18, 2018

## *Certificate of Participation*

This is to certify that Ms./Mr./Dr./Prof. Dr. Vikram Singh of Central University of Himachal Pradesh has participated and given an invited talk on the topic entitled "Higher-order organization in bidirectional biological networks" at National Conference on "Recent Advances in Experimental and Theoretical Physics" organized by Department of Physics and Astronomical Sciences, Central University of Jammu, J&K (India) on April 17-18, 2018.

  
Dr. Suram Singh

Organizing Secretary

  
Dr. Amit Tomar

Organizing Secretary

  
Dr. Vinay Kumar

Convener



---

## **Emerging Trends on Computational Biology Symposium on Dec 16-17, 2017**

**School of Computational and Integrative Sciences  
Jawaharlal Nehru University, Delhi - 110067**



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Dec 4, 2017

Dr. Vikram Singh,  
CUHP,  
H.P, India

Dr. Vikram Singh,

We are pleased to invite you to a two day long symposium on “Emerging trends on Computational Biology” from 16<sup>th</sup> to 17<sup>th</sup> Dec 2017 at School of Computational and Integrative Sciences, JNU, Delhi. We invite you to participate in the symposium and present a talk on your work. Talk session will be followed by the detailed discussion about the multi-institutional or multi-component project.

We are not able to support travel expenses, and hope that you will be able to raise this from other sources. I hope you can accept our invitation, and look forward to seeing you at the meeting.

Yours sincerely

Dr. Alok Srivastava  
Assistant Professor, AIISH, AUH, Haryana  
Organizer, ETCS-2017  
[aksrivastava@ggn.amity.edu](mailto:aksrivastava@ggn.amity.edu)

Prof. Andrew Lynn  
Dean, SCIS, JNU, Delhi  
[andrew@mail.jnu.ac.in](mailto:andrew@mail.jnu.ac.in)

Category



## Shailender Kumar Verma

University of Delhi  
Environmental biology  
Agriculture  
Bioinformatics  
Biotechnology  
Plant Breeding and Genetics

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Citations	217	196
h-index	9	9
i10-index	9	8

4 articles 14 articles

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TITLE	CITED BY	YEAR
Pan-proteome profiling of emerging and re-emerging zoonotic pathogen <i>Orientia tsutsugamushi</i> for getting insight in to microbial pathogenesis D Sharma, A Sharma, B Singh, SK Verma Microbial Pathogenesis, 105103	2	2021
Genome-wide analysis of RING-type E3 ligase family identifies potential candidates regulating high amylose starch biosynthesis in wheat ( <i>Triticum aestivum</i> L.) A Parveen, MS Rahim, A Sharma, P Kumar, V Fandade, P Kumar, ... Scientific Reports 11 (11461), 1-17	2	2021
Subcellular dynamics studies of iron reveal how tissue-specific distribution patterns are established in developing wheat grains S Sheraz, Y Wan, E Venter, SK Verma, Q Xiong, J Waites, JM Connorton, ... New Phytologist, <a href="https://doi.org/10.1111/nph.17440">https://doi.org/10.1111/nph.17440</a>	3	2021
Genome-wide identification and expression profiling of basic leucine zipper transcription factors following abiotic stresses in potato ( <i>Solanum tuberosum</i> L.) P Kumar, P Kumar, D Sharma, SK Verma, D Halterman, A Kumar Plos one 16 (3), e0247864	2	2021
Identification and characterization of long non-coding RNAs regulating resistant starch biosynthesis in bread wheat ( <i>Triticum aestivum</i> L.) A Madhawan, A Sharma, A Bhandawat, MS Rahim, P Kumar, A Mishra, ... Genomics 112 (5), 3065-3074	6	2020
Zinc binding proteome of a phytopathogen <i>Xanthomonas translucens</i> pv. <i>undulosa</i> A Sharma, D Sharma, SK Verma Royal Society Open Science 6 (9), 1-20	6	2019
Bioinformatic Exploration of Metal-Binding Proteome of Zoonotic Pathogen <i>Orientia tsutsugamushi</i> D Sharma, A Sharma, B Singh, SK Verma Frontiers in Genetics 10 (797), 1-17	6	2019

TITLE	CITED BY	YEAR
In silico identification of copper-binding proteins of <i>Xanthomonas translucens</i> pv. <i>undulosa</i> for their probable role in plant-pathogen interactions A Sharma, D Sharma, SK Verma Physiological and Molecular Plant Pathology	6	2019
Pivotal role of bZIPs in amylose biosynthesis by genome survey and transcriptome analysis in wheat ( <i>Triticum aestivum</i> L.) mutants. P Kumar, A Mishra, H Sharma, D Sharma, M Saba Rahim, M Sharma, ... Scientific Reports 8 (17240), 1-15	18	2018
Targeting metabolic pathways proteins of <i>Orientia tsutsugamushi</i> using combined hierarchical approach to combat scrub typhus. D Sharma, A Sharma, SK Verma, B Singh Journal of Molecular Recognition, 1-13	11	2018
In silico Study of Iron, Zinc and Copper Binding Proteins of <i>Pseudomonas syringae</i> pv. <i>lapsea</i> : Emphasis on Secreted Metalloproteins A Sharma, D Sharma, SK Verma Frontiers in Microbiology, 1-19	13	2018
Precise transfers of genes for high grain iron and zinc from wheat-Aegilops substitution lines into wheat through pollen irradiation P Sharma, I Sheikh, S Kumar, SK Verma, R Kumar, P Vyas, HS Dhaliwal Molecular Breeding 38 (81), doi.org/10.1007/s11032-018-0836-8	12	2018
Development of intron targeted amplified polymorphic markers of metal homeostasis genes for monitoring their introgression from Aegilops species to wheat I Sheikh, P Sharma, SK Verma, S Kumar, N Kumar, S Kumar, R Kumar, ... Molecular Breeding 38 (47), doi.org/10.1007/s11032-018-0809-y	7	2018
Uptake, distribution, and remobilization of iron and zinc among various tissues of wheat-Aegilops substitution lines at different growth stages P Sharma, I Sheikh, D Singh, S Kumar, SK Verma, R Kumar, P Vyas, ... Acta Physiologiae Plantarum 39 (8), 1-12	9	2017
Proteome scale identification, classification and structural analysis of iron-binding proteins in bread wheat SK Verma, A Sharma, P Sandhu, N Choudhary, S Sharma, V Acharya, ... Journal of Inorganic Biochemistry 170, 63-74	7	2017
Proteome wide identification of iron binding proteins of <i>Xanthomonas translucens</i> pv. <i>undulosa</i> : focus on secretory virulent proteins A Sharma, D Sharma, SK Verma BioMetals 30 (1), 127-141	12	2017
Transfer of HMW glutenin subunits from <i>Aegilops kotschy</i> to wheat through radiation hybridization J Singh, I Sheikh, P Sharma, S Kumar, SK Verma, R Kumar, P Mathpal, ... Journal of Food Science and Technology	6	2016



TITLE	CITED BY	YEAR
Transferability and Polymorphism Between Group 7 Chromosome Specific Simple Sequence Repeat (SSR) Markers of Bread Wheat and Its Related Non-Progenitor Aegilops Species S Kumar, SK Verma, P Kundu, A Awasthi, I Sheikh, K Sangwan, R Prasad, ... Journal of Crop Improvement 30 (4), 433-446	4	2016
Induced Homoeologous Pairing for Transfer of Useful Variability for High Grain Fe and Zn from Aegilops kotschy into Wheat SK Verma, S Kumar, P Sheikh, Imran, Sharma, P Mathpal, S Malik, ... Plant Molecular Biology Reporter 34 (6), 1083-1094	12	2016
Transfer of useful variability of high grain iron and zinc from Aegilops kotschy into wheat through seed irradiation approach SK Verma, S Kumar, I Sheikh, S Malik, P Mathpal, V Chugh, S Kumar, ... International Journal of Radiation Biology 92 (3), 132-139	26	2016
Characterization of interspecific hybrids of Triticum aestivum x Aegilops sp. without 5B chromosome for induced homoeologous pairing I Sheikh, P Sharma, SK Verma, S Kumar, S Malik, P Mathpal, U Kumar, ... Journal of plant biochemistry and biotechnology 25 (1), 117-120	10	2016
<del>Development of multiple embryos in polyembryonic insertional mutant OsPE of rice P Paul, A Awasthi, S Kumar, SK Verma, R Prasad, HS Dhaliwal Plant cell reports 31 (10), 1779-1787</del>	<del>7</del>	<del>2012</del>
<del>Abnormal endosperm development causes female sterility in rice insertional mutant OsAPC6 A Awasthi, P Paul, S Kumar, SK Verma, R Prasad, HS Dhaliwal Plant science 183, 167-174</del>	<del>30</del>	<del>2012</del>



aparajit p

Assistant Professor in Biology, Indian Institute of Petroleum & Energy, Visakhapatnam  
Verified email at iipe.ac.in  
Computational Biology/Molecular Modeling & Drug Design

All Since 2017

Citations	1055	601
h-index	16	13
i10-index	22	16

- Application of per-residue energy decomposition to identify the set of amino acids critical for in silico prediction of COX-2 inhibitory activity  
N Chaudhary, P Aparajit  
Helveta 8 (10): 9349-44 3 2020
- MM-PBSA and per-residue decomposition energy studies on 7-Phenyl-imidazoquinolin-4 (5H)-one derivatives: Identification of crucial site points at microsomal prostaglandin E ...  
A Gupta, N Chaudhary, P Aparajit  
International journal of biological macromolecules 119: 352-359 15 2018
- Role of topological, electronic, geometrical, constitutional and quantum chemical based descriptors in QSAR: mPGES-1 as a case study  
A Gupta, V Kumar, P Aparajit  
Current Topics in Medicinal Chemistry 18 (13): 1075-1090 7 2018
- Deciphering the mechanism behind the varied binding activities of COXIBs through Molecular Dynamic Simulations. MM-PBSA binding energy calculations and per-residue energy ...  
N Chaudhary, P Aparajit  
Journal of Biomolecular Structure and Dynamics 35 (4): 858-862 30 2017
- Insights into the structure activity relationship of mPGES-1 inhibitors: hints for better inhibitor design  
A Gupta, P Aparajit  
International journal of biological macromolecules 88: 624-632 6 2016



**Peer Reviewed Research Articles:**

Sr. No.	Title of the Paper	Name of the Author (s)	Title of the Journal, Publisher	Year	Impact Factor
1.	A census of <i>P. longum</i> 's phytochemicals and their network pharmacological evaluation for identifying novel drug-like molecules against various diseases, with a special focus on neurological disorders	Neha Choudhary and <b>Vikram Singh</b>	PLoS ONE, PLOS	2018	2.740
2.	Functional elucidation of hypothetical proteins for their indispensable roles toward drug designing targets from <i>Helicobacter pylori</i> strain HPAG1	Gagandeep Singh and <b>Vikram Singh</b>	Journal of Biomolecular Structure and Dynamics, Taylor & Francis	2018	3.310
3.	Construction and analysis of an interologous protein-protein interaction network of <i>Camellia sinensis</i> leaf (TeaLIPIN) from RNA-Seq data sets	Gagandeep Singh, Vikram Singh, <b>Vikram Singh</b>	Plant Cell Reports, Springer	2019	3.825
4.	Insights about multi-targeting and synergistic neuromodulators in Ayurvedic herbs against epilepsy: integrated computational studies on drug-target and protein-protein interaction networks	Neha Choudhary, <b>Vikram Singh</b>	Scientific Reports, Nature	2019	3.998
5.	TulsiPIN: An Interologous Protein Interactome of <i>Ocimum tenuiflorum</i>	Vikram Singh, Gagandeep Singh, <b>Vikram Singh</b>	Journal of Proteome Research, ACS	2019	4.074
6.	Functional annotation and characterization of hypothetical protein involved in blister blight tolerance in tea ( <i>Camellia sinensis</i> (L) O. Kuntze)	Gagandeep Singh, et al.	Journal of Plant Biochemistry and Biotechnology, Springer	2019	1.038
7.	Genome-wide interologous interactome map (TeaGPIN) of <i>Camellia sinensis</i>	Gagandeep Singh, Vikram Singh, <b>Vikram Singh</b>	Genomics, Elsevier	2021	6.205
8.	Deciphering the multi-scale mechanisms of <i>Tephrosia purpurea</i> against polycystic ovarian syndrome (PCOS) and its major psychiatric comorbidities: Studies from network pharmacological perspective	Neha Choudhary, Shilpa Choudhary, Arun Kumar, <b>Vikram Singh</b>	Gene, Elsevier	2021	2.984
9.	Complete mitogenome of endemic plum-headed parakeet <i>Psittacula cyanocephala</i> – characterization and phylogenetic analysis	Prateek Dey, et al.	PLoS ONE, PLOS	2021	2.740

*Dr Yash Akhter*

Recent trends in system-scale integrative approaches for discovering protective antigens against mycobacterial pathogens A Rana, S Thakur, G Kumar, Y Akhter Frontiers in Genetics, 572	8	2018
Mutually exclusive locales for N-linked glycans and disorder in glycoproteins A Singh, I Kumari, D Pally, S Gouffham, S Ghosh, Y Akhter, R Bhat bioRxiv, 443143		2018
Vitexin alters <i>Staphylococcus aureus</i> surface hydrophobicity to interfere with biofilm formation MC Das, A Das, S Samadder, AV Daware, C Ghosh, S Acharjee, ... bioRxiv, 301473	5	2018
Evolution of catalytic microenvironment governs substrate and product diversity in trichodiene synthase and other terpene fold enzymes I Kumari, M Ahmed, Y Akhter Biochimie 144, 9-20	11	2018
Evolution of structural fitness and multifunctional aspects of mycobacterial RND family transporters P Sandhu, Y Akhter Archives of microbiology 200 (1), 19-31	14	2018
Catalytic diversity and homotropic allostery of two Cytochrome P450 monooxygenase like proteins from <i>Trichoderma brevicompactum</i> R Hussain, I Kumari, S Sharma, M Ahmed, TA Khan, Y Akhter JBIC Journal of Biological Inorganic Chemistry 22 (8), 1197-1209	7	2017
Targets of ubiquitin like system in mycobacteria and related actinobacterial species Y Akhter, S Thakur Microbiological Research 204, 9-29	10	2017
Molecular dynamics simulations, challenges and opportunities: a Biologist's prospective I Kumari, P Sandhu, M Ahmed, Y Akhter Current Protein and Peptide Science 18 (11), 1163-1179	23	2017
Global Proteomics Conference M Alaidarous, M Kashif, PP Manna, Y Akhter, A Rub Proteomics 2017		2017
Identification of novel inhibitors against UDP-galactopyranose mutase to combat leishmaniasis M Kashif, S Tabrez, A Husein, M Arish, P Kalaiarasan, PP Manna, ... Journal of Cellular Biochemistry	19	2017
Exploration of Phytoconstituents from <i>Mussaenda roxburghii</i> and Studies of Their Antibiofilm Effect R Ghosh, MC Das, A Sarkar, A Das, P Sandhu, B Dinda, Y Akhter, ... Chemistry & Biodiversity 14 (10), e1700165	7	2017
Antileishmanial and immunomodulatory activities of lupeol, a triterpene compound isolated from <i>Sterculia villosa</i> A Das, JJ Jawed, MC Das, P Sandhu, UC De, B Dinda, Y Akhter, ... International journal of antimicrobial agents 50 (4), 512-522	39	2017
Genome wide identification of cotton ( <i>Gossypium hirsutum</i> )-encoded microRNA targets against Cotton leaf curl Burewala virus	15	2017

Shweta, Y Akhter, JA Khan  
Gene

**Implication of sphingosine-1-phosphate signaling in diseases: molecular mechanism and therapeutic strategies**

M Arish, M Alaidarous, R Ali, Y Akhter, A Rub

Journal of Receptors and Signal Transduction 37 (5), 437-446

15

2017

**Species specific substrates and products choices of 4-O-acetyltransferase from *Trichoderma brevicompactum***

S Sharma, I Kumari, R Hussain, M Ahmed, Y Akhter

Enzyme and Microbial Technology 104, 29-36

6

2017

**Potential of antibiotic against *Pseudomonas aeruginosa* biofilm: a study with plumbagin and gentamicin**

P Gupta, A Sarkar, P Sandhu, A Daware, MC Das, Y Akhter, ...

Journal of applied microbiology 123 (1), 246-261

29

2017

**Genome scale identification, structural analysis, and classification of periplasmic binding proteins from *Mycobacterium tuberculosis***

P Sandhu, M Kumari, K Naini, Y Akhter

Current Genetics 63 (3), 553-576

1

2017

**Siderophore transport by MmpL5-MmpS5 protein complex in *Mycobacterium tuberculosis***

P Sandhu, Y Akhter

Journal of inorganic biochemistry 170, 75-84

22

2017

**Proteome scale identification, classification and structural analysis of iron-binding proteins in bread wheat**

SK Verma, A Sharma, P Sandhu, N Choudhary, S Sharma, V Acharya, ...

Journal of Inorganic Biochemistry 170, 63-74

7

2017

**Structural basis of transport function in major facilitator superfamily protein from *Trichoderma harzianum***

N Chaudhary, P Sandhu, M Ahmed, Y Akhter

International journal of biological macromolecules 95, 1091-1100

1

2017

**Antibiofilm activity of *Parkia javanica* against *Pseudomonas aeruginosa*: a study with fruit extract**

A Das, MC Das, P Sandhu, N Das, P Tribedi, UC De, Y Akhter, ...

RSC advances 7 (9), 5497-5513

24

2017

**Screening of Novel Inhibitors Against *Leishmania donovani* Calcium ion Channel to Fight Leishmaniasis**

M Kashif, PP Manna, Y Akhter, M Alaidarous, A Rub

Infectious Disorders-Drug Targets 16, 1-9

25

2016

**Excavating the surface-associated and secretory proteome of *Mycobacterium leprae* for identifying vaccines and diagnostic markers relevant immunodominant epitopes**

A Rana, S Thakur, N Bhardwaj, D Kumar, Y Akhter

Pathogens and Disease 74 (9)

9

2016

**Lipid-II independent antimicrobial mechanism of nisin depends on its crowding and degree of oligomerization**

A Prince, P Sandhu, P Ror, E Dash, S Sharma, M Arakha, S Jha, Y Akhter, ...

Scientific reports 6 (1), 1-15

85

2016

**Deciphering the protein translation inhibition and coping mechanism of trichothecene toxin in resistant fungi**

11

2016



I Kumari, M Ahmed, Y Akhter  
The International Journal of Biochemistry & Cell Biology 78, 370-376

Terminal regions of  $\beta$ -catenin are critical for regulating its adhesion and transcription functions  
MS Dar, P Singh, G Singh, G Jamwal, SS Hussain, A Rana, Y Akhter, ...  
Biochimica et Biophysica Acta (BBA)-Molecular Cell Research 1863 (9), 2345-2357

16 2016

Multifaceted impact of trichothecene metabolites on plant-microbe interactions and human health  
I Kumari, M Ahmed, Y Akhter  
Applied microbiology and biotechnology 100 (13), 5759-5771

9 2016

Proteome scale census of major facilitator superfamily transporters in *Trichoderma reesei* using protein sequence and structure based classification enhanced ranking  
N Chaudhary, I Kumari, P Sandhu, M Ahmed, Y Akhter  
Gene 585 (1), 166-176

24 2016

Members of Second Academic Council  
IIM Director  
Department of Chemical Engineering, IIT Bombay

2016

Structural and mechanistic analysis of engineered trichodiene synthase enzymes from *Trichoderma harzianum*: towards higher catalytic activities empowering sustainable agriculture  
I Kumari, N Chaudhary, P Sandhu, M Ahmed, Y Akhter  
Journal of Biomolecular Structure and Dynamics 34 (6), 1176-1189

17 2016

A multi-subunit based, thermodynamically stable model vaccine using combined immunoinformatics and protein structure based approach  
A Rana, Y Akhter  
Immunobiology 221 (4), 544-557

62 2016

Attenuation of *Pseudomonas aeruginosa* biofilm formation by Vitexin: A combinatorial study with azithromycin and gentamicin  
MC Das, P Sandhu, P Gupta, P Rudrapaul, UC De, P Tribedi, Y Akhter, ...  
Scientific reports 6 (1), 1-13

129 2016

The drug binding sites and transport mechanism of the RND pumps from *Mycobacterium tuberculosis*: Insights from molecular dynamics simulations  
P Sandhu, Y Akhter  
Archives of biochemistry and biophysics 592, 38-49

29 2016

Structural basis of transport function in major facilitator  
NCPSM Ahmed

2016

Sphingosine-1-phosphate signaling: unraveling its role as a drug target against infectious diseases  
M Arish, A Husein, M Kashif, M Saleem, Y Akhter, A Rub  
Drug discovery today 21 (1), 133-142

28 2016



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय  
Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

अस्थाई शैक्षणिक खण्ड, शाहपुर, जिला काँगड़ा, हिमाचल प्रदेश - 176206

Temporary Academic Block, Shahpur, Distt. Kangra (HP) - 176206

Website: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

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Dated: 24.04.2018

**CIRCULAR**

The **Ph.D. Viva-Voce** examination of **Mr. Omkar Singh**, Registration No. **CUHP12RDCBB04**, Ph.D. Scholar in the **Centre for Computational Biology and Bioinformatics**, School of Life Sciences (SoLS) on his thesis "**Development of target specific and systems biology based scoring methods for the quantification of protein ligand interactions**" will be held on **01<sup>st</sup> May, 2018** at **09:30 AM (onwards)** in the **Seminar Hall** of Central University of Himachal Pradesh, Temporary Academic Block, Shahpur.

All the Faculty members and RD Scholars are cordially invited to be present in the Ph.D. Viva-Voce examination of Mr. Omkar Singh.

  
Dean,

School of Life Sciences

**Copy to:**

1. Mr. Omkar Singh, Ph.D. Scholar, Centre for Computational Biology and Bioinformatics.
2. Dr. P. Aparoy (Supervisor), Assistant Professor, Centre for Computational Biology and Bioinformatics, SoLS, Central University of Himachal Pradesh, TAB, Shahpur.
3. The Director, Centre for Computational Biology and Bioinformatics, SoLS, Central University of Himachal Pradesh, TAB, Shahpur.
4. The Controller of Examinations, Central University of Himachal Pradesh, TAB, Shahpur.
5. All Deans/Heads/Directors of the different Schools, Central University of Himachal Pradesh, TAB, Shahpur.
6. All the Faculty Members of the Centre for Computational Biology and Bioinformatics, SoLS, Central University of Himachal Pradesh, TAB, Shahpur.
7. The Finance Officer, Central University of Himachal Pradesh, TAB, Shahpur.
8. The Registrar, Central University of Himachal Pradesh, Camp Office, Dharamshala.
9. The Hon'ble Pro-Vice-Chancellor, Central University of Himachal Pradesh, TAB, Shahpur.
10. PS to VC for kind information of the Hon'ble Vice Chancellor, Central University of Himachal Pradesh, Camp Office, Dharamshala.

  
Dean,

School of Life Sciences





# हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

## Central University of Himachal Pradesh

कैंप कार्यालय, एचपीसीए क्रिकेट स्टेडियम के निकट, धर्मशाला, जिला - काँगड़ा, हिमाचल प्रदेश - 176215

Camp Office, Near HPCA Cricket Stadium, Dharamshala District Kangra (HP)-176215

Tel. 01892-224377, Email: cuhp.coe@gmail.com; Website: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

संदर्भ: सी ओ इ /1-12/ हि० प्र० के० वि०/2020 / 8484 - 99

दिनांक : 05.05.2020

### अधिसूचना

हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय की शैक्षणिक परिषद द्वारा इसकी 13 वीं बैठक दिनांक 15.06.2015 की मद संख्या 13.4(टी) जिसे कार्यकारिणी परिषद द्वारा इसकी 19 वीं बैठक दिनांक 16.06.2015 की मद सं. 19.11 के माध्यम से अनुमोदित किया गया था। इसके अनुसार पीएच.डी. डिग्री के लिए मौखिक परीक्षा सहित पीएच.डी. के सभी चरणों को सफलतापूर्वक पूर्ण करने वाले विद्यार्थियों के पक्ष में परीक्षा नियंत्रक द्वारा अपेक्षित अधिसूचना जारी करने के लिए अनुमति प्रदान करने हेतु कुलपति को विशेष शक्तियां प्रदान की गई हैं।

इन विशेष शक्तियों का प्रयोग करते हुए कुलपति निम्नलिखित अभ्यर्थियों की थीसिस को स्वीकृत करते हुए इस विश्वविद्यालय की " विद्यावाचस्पति (डॉक्टर ऑफ़ फिलोसोफी ) " उपाधि प्रदान किए जाने के लिए पात्र घोषित करते हैं।

क्रमांक Sr. No.	अभ्यर्थी का नाम, विषय, पिता का नाम तथा पंजीकरण सं० Name of Candidate, Subject, Father's Name & Registration No.	स्कूल School	थीसिस का शीर्षक Title of The Thesis	कुलपति द्वारा अनुमोदन की तिथि Date of Approval of V.C.
1.	गगनदीप सिंह (कंप्यूटेशनल जीव विज्ञान एवं जैवसूचना) सुपुत्र श्री मान सिंह Gagandeep Singh (Computational Biology & Bioinformatics) S/o Sh. Man Singh CUHP12RDCBB03	जैविक विज्ञान स्कूल School of Life Sciences	"In-Silico Studies on Systems Scale Characterization of Camellia Sinensis (tea) Using Transcriptomic and Genomic Data"	20.03.2020
2.	संदीप शर्मा (पर्यटन एवं यात्रा प्रबंधन) सुपुत्र श्री नरेश कुमार Sandeep Sharma (Tourism & Travel Management) S/o Sh. Naresh Kumar CUHP13RDT&T01	पर्यटन, यात्रा एवं आतिथ्य प्रबंधन स्कूल School of Tourism, Travel & Hospitality Management	"Destination Image of Himachal Pradesh: A Foreign Tourists' Perspective"	20.03.2020

नोट : उपर्युक्त मामले में प्रभावी तिथि कुलपति द्वारा अनुमोदन की तिथि होगी।

परीक्षा नियंत्रक

### निम्नलिखित को प्रति अग्रेषित :

- संबंधित छात्र।
- सचिव, यूजीसी, बहादुर शाह जफर मार्ग, नई दिल्ली -110002 - कृपया सूचनार्थ।
- संपादक, विश्वविद्यालय समाचार, एआईयू हाउस, 16 कोटला मार्ग, नई दिल्ली -110002
- कुलपति के ओ एस डी - कृपया माननीय कुलपति, हि.प्र.के.वि. के सूचनार्थ।
- प्रति-कुलपति के निजी सहायक - कृपया माननीय प्रति-कुलपति, हि.प्र.के.वि. के सूचनार्थ।
- सभी अधिष्ठाता / विभागाध्यक्ष, हि.प्र.के.वि. - कृपया सूचनार्थ।
- डॉ. विक्रम सिंह, सुपरवाइज़र, गगनदीप सिंह (कंप्यूटेशनल जीव विज्ञान एवं जैवसूचना) - कृपया सूचनार्थ।
- डॉ. सुमन शर्मा, सुपरवाइज़र, संदीप शर्मा (पर्यटन एवं यात्रा प्रबंधन)- कृपया सूचनार्थ।
- कुलसचिव, हि.प्र.के.वि. - कृपया सूचनार्थ।
- वित्त अधिकारी, हि.प्र.के.वि. - कृपया सूचनार्थ।
- लोक सम्पर्क अधिकारी, हि.प्र.के.वि. - कृपया सूचनार्थ।
- विद्यार्थी सूचना बोर्ड।
- गार्ड फाइल।

परीक्षा नियंत्रक



# हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय

## Central University of Himachal Pradesh

कैंप कार्यालय - हिमाचल प्रदेश, काँगड़ा - जिला, धर्मशाला, एचपीसीए क्रिकेट स्टेडियम के निकट, 176215

Camp Office, Near HPCA Cricket Stadium, Dharamshala District Kangra (HP)-176215

Tel. 01892-224377, Email: [cuhp.coe@gmail.com](mailto:cuhp.coe@gmail.com); Website: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

संदर्भ: सी ओ इ /1-12/ हि० प्र० के० वि०/2020/ 9954-65

दिनांक : 11.09.2020

### अधिसूचना

हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय की शैक्षणिक परिषद द्वारा इसकी 13 वीं बैठक दिनांक 15.06.2015 की मद संख्या 13.4(टी) जिसे कार्यकारिणी परिषद द्वारा इसकी 19 वीं बैठक दिनांक 16.06.2015 की मद सं. 19.11 के माध्यम से अनुमोदित किया गया था। इसके अनुसार पीएच.डी. डिग्री के लिए मौखिक परीक्षा सहित पीएच.डी. के सभी चरणों को सफलतापूर्वक पूर्ण करने वाले विद्यार्थियों के पक्ष में परीक्षा नियंत्रक द्वारा अपेक्षित अधिसूचना जारी करने के लिए अनुमति प्रदान करने हेतु कुलपति को विशेष शक्तियां प्रदान की गई हैं।

इन विशेष शक्तियों का प्रयोग करते हुए कुलपति निम्नलिखित अभ्यर्थियों की थीसिस को स्वीकृत करते हुए इस विश्वविद्यालय की “ विद्यावाचस्पति (डॉक्टर ऑफ़ फिलोसोफी ) ” उपाधि प्रदान किए जाने के लिए पात्र घोषित करते हैं।

क्रमांक Sr. No.	अभ्यर्थी का नाम, विषय, पिता का नाम तथा पंजीकरण सं० Name of Candidate, Subject, Father's Name & Registration No.	स्कूल School	थीसिस का शीर्षक Title of The Thesis	कुलपति द्वारा अनुमोदन की तिथि Date of Approval of V.C.
1.	दिक्षीत शर्मा (कंप्यूटेशनल जीव विज्ञान एवं जैवसूचना) सुपुत्र श्री हेम राज शर्मा Dixit Sharma (Computational Biology & Bioinformatics) S/o Sh. Hem Raj Sharma CUHP15RDCB01	जैविक विज्ञान स्कूल School of Life Sciences	"Studies on the metabolic pathways and metal-binding proteins of Orientia tsutsugamushi"	11.09.2020

नोट : उपर्युक्त मामले में प्रभावी तिथि कुलपति द्वारा अनुमोदन की तिथि होगी।

  
परीक्षा नियंत्रक

### निम्नलिखित को प्रति अग्रेषित :

1. संबंधित छात्र।
2. सचिव, यूजीसी, बहादुर शाह जफर मार्ग, नई दिल्ली -110002 – कृपया सूचनार्थ।
3. संपादक, विश्वविद्यालय समाचार, एआईयू हाउस, 16 कोटला मार्ग, नई दिल्ली -110002
4. कुलपति के ओ एस डी – कृपया माननीय कुलपति, हि.प्र.के.वि. के सूचनार्थ।
5. सभी अधिष्ठाता / विभागाध्यक्ष, हि.प्र.के.वि. – कृपया सूचनार्थ।
6. डॉ. शैलेन्द्र कुमार वर्मा, सुपरवाइज़र, दिक्षीत शर्मा (कंप्यूटेशनल जीव विज्ञान एवं जैवसूचना) - कृपया सूचनार्थ।
7. डॉ. बीरबल सिंह, को-सुपरवाइज़र, दिक्षीत शर्मा (कंप्यूटेशनल जीव विज्ञान एवं जैवसूचना) - कृपया सूचनार्थ।
8. कुलसचिव, हि.प्र.के.वि. – कृपया सूचनार्थ।
9. वित्त अधिकारी, हि.प्र.के.वि. – कृपया सूचनार्थ।
10. लोक सम्पर्क अधिकारी, हि.प्र.के.वि. – कृपया सूचनार्थ।
11. विद्यार्थी सूचना बोर्ड।
12. गार्ड फाइल।

  
परीक्षा नियंत्रक





# हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

अस्थाई शैक्षणिक खण्ड, शाहपुर, जिला काँगड़ा, हिमाचल प्रदेश - 176206

Temporary Academic Block, Shahpur, Distt. Kangra (HP) - 176206

Website: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

File No. LS/1-2/CUHP/12/ 313-327

Dated: 28.07.2020

## NOTICE

The **Online Ph.D. Viva-Voce examination** of **Mr. Ashish** under Roll No. **CUHP12RDCBB02**, Ph.D. student, **Centre for Computational Biology and Bioinformatics (CBB)**, School of Life Sciences (SoLS) will be **held** on **30<sup>th</sup> July, 2020** at **09:30 AM** (onwards) in the **Seminar Hall**, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur. It will also, be **hosted** on **Google Meet** video-conferencing platform. The **Link** join the **meeting** is:

<https://meet.google.com/cng-ffxm-yam>

He will **defend** his **Ph.D. research work** based on the **thesis** entitled "**Development of reliable *in silico* screening methods for the identification of novel mPGES-1 inhibitors**".

Therefore, all the Faculty Members, Students, Research Scholars and other interested persons of all the Department's/School's are invited to attend the Viva Voce Examination

  
Director,

Centre for Computational Biology and Bioinformatics

Copy to:

1. Mr. Ashish, Ph.D. student, Centre for Computational Biology and Bioinformatics for information and necessary action.
2. Dr. P. Aparoy (Supervisor), Assistant Professor, Indian Institute of Petroleum and Energy (IIPM), Vishakhapatnam, Andhra Pradesh for information and necessary action.
3. The Members of the RPMC and Ph.D. Viva Voce Board for information.
4. The Dean, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur.
5. The Dean Research, Central University of Himachal Pradesh, Dhauladhar Parisar – I, Dharamshala
6. The Controller of Examinations, Central University of Himachal Pradesh, Camp Office, Dharamshala for information.
7. All Deans/Heads of the different Schools, Central University of Himachal Pradesh, TAB, Shahpur/Dharamshala with a request to inform all Teachers, RD Scholars and PG Students.
8. All the Faculty Members of the Centre for Computational Biology and Bioinformatics, SoLS, Central University of Himachal Pradesh, TAB, Shahpur.
9. The Finance Officer, Central University of Himachal Pradesh, Dhauladhar Parisar – II, Dharamshala.
10. The Registrar, Central University of Himachal Pradesh, Camp Office, Dharamshala.
11. OSD to VC for kind information of the Hon'ble Vice Chancellor, Central University of Himachal Pradesh, Camp Office, Dharamshala.

  
Dr. Mahesh Kulharia  
Director,

Centre for Computational Biology and Bioinformatics

क्रमांक Serial No.: Ph.D./2018/0032



नामांकन सं० Enrolment No.: CUHP14RDCBB02

# हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

(केंद्रीय विश्वविद्यालय अधिनियम 2009 के अंतर्गत स्थापित)

द्वारा

शैक्षणिक परिषद की संस्तुति पर

**अंकिता शर्मा सुपुत्री श्रीमती संतोष कुमारी एवं श्री सुरेश चन्द**

को जैविक विज्ञान स्कूल के अंतर्गत

विश्वविद्यालय अनुदान आयोग (एम फिल / पी एच डी उपाधि के लिए न्यूनतम मानक एवं प्रक्रिया) विनियम, २००९ के अनुसार

शोध प्रबंध: "Studies on Iron, Zinc and Copper Binding Proteins from Bacterial Pathogens of Wheat" पर शोध

कार्य सफलतापूर्वक पूर्ण करने पर

विद्यावाचस्पति

की उपाधि प्रदान की जाती है।

## CENTRAL UNIVERSITY OF HIMACHAL PRADESH

(Established under Central Universities Act 2009)

on the recommendation of the Academic Council  
confers on

**Ankita Sharma D/o Smt. Santosh Kumari and Sh. Suresh Chand**  
the degree of

**Doctor of Philosophy (Ph.D.)**

on successful completion of the research work

Thesis: "Studies on Iron, Zinc and Copper Binding Proteins from Bacterial Pathogens of Wheat"  
in accordance with the

UGC (Minimum Standards and Procedure for the award of M.Phil./Ph.D. degrees) Regulations, 2009  
in the School of Life Sciences.

SELF Attested  
Ankita Sharma

धर्मशाला Dharamshala

दिनांक Date:

11 SEP 2019

कुलसचिव  
Registrar

परीक्षा नियंत्रक  
Controller of Examination

कुलपति  
Vice-Chancellor





# हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय

## Central University of Himachal Pradesh

कैंप कार्यालय - हिमाचल प्रदेश, काँगड़ा - जिला, धर्मशाला, एचपीसीए क्रिकेट स्टेडियम के निकट, 176215

Camp Office, Near HPCA Cricket Stadium, Dharamshala District Kangra (HP)-176215

Tel. 01892-224377, Email: [cuhp.coe@gmail.com](mailto:cuhp.coe@gmail.com); Website: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

संदर्भ: सी ओ इ /1-12/ हि० प्र० के० वि०/2019/1511-24

दिनांक : 16.08.2019

### अधिसूचना

हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय की शैक्षणिक परिषद द्वारा इसकी 13 वीं बैठक दिनांक 15.06.2015 की मद संख्या 13.4(टी) जिसे कार्यकारिणी परिषद द्वारा इसकी 19 वीं बैठक दिनांक 16.06.2015 की मद सं. 19.11 के माध्यम से अनुमोदित किया गया था। इसके अनुसार पीएच.डी. डिग्री के लिए मौखिक परीक्षा सहित पीएच.डी. के सभी चरणों को सफलतापूर्वक पूर्ण करने वाले विद्यार्थियों के पक्ष में परीक्षा नियंत्रक द्वारा अपेक्षित अधिसूचना जारी करने के लिए अनुमति प्रदान करने हेतु कुलपति को विशेष शक्तियां प्रदान की गई हैं।

इन विशेष शक्तियों का प्रयोग करते हुए कुलपति निम्नलिखित अभ्यर्थियों की थीसिस को स्वीकृत करते हुए इस विश्वविद्यालय की “ विद्यावाचस्पति (डॉक्टर ऑफ़ फिलोसोफी ) ” उपाधि प्रदान किए जाने के लिए पात्र घोषित करते हैं।

क्रमांक Sr. No.	अभ्यर्थी का नाम, विषय, पिता का नाम तथा पंजीकरण सं० Name of Candidate, Subject, Father's Name & Registration No.	स्कूल School	थीसिस का शीर्षक Title of The Thesis	कुलपति द्वारा अनुमोदन की तिथि Date of Approval of V.C.
1.	मायान्लाम्बम बिमोलचन्द्र सिंह (पत्रकारिता एवं सृजनात्मक लेखन) सुपुत्र श्री मायान्लाम्बम मनिहार सिंह Mayanglambam Bimolchandra Singh (Journalism & Creative Writing) S/o Sh. Mayanglambam Manihar Singh CUHP14RDJCW02	पत्रकारिता, जनसंचार एवं नवमीडिया स्कूल School of Journalism, Mass Communication & New Media	"Radio as an Instrument of Health Communication: A Critical Analysis of Radio Health Programs with Special Reference to all India Radio, Imphal"	09.08.2019
2.	अंकिता शर्मा (कंप्यूटेशनल जीव विज्ञान एवं जैवसूचना) सुपुत्री श्री सुरेश चन्द Ankita Sharma (Computational Biology & Bio-Informatics) D/o Sh. Suresh Chand CUHP14RDCBB02	जैविक विज्ञान स्कूल School of Life Sciences	"Studies on Iron, Zinc and Copper Binding Proteins from Bacterial Pathogens of Wheat"	09.08.2019

नोट : उपर्युक्त मामले में प्रभावी तिथि कुलपति द्वारा अनुमोदन की तिथि होगी।

### निम्नलिखित को प्रति अग्रेषित :

1. संबंधित छात्र।
2. सचिव, यूजीसी, बहादुर शाह जफर मार्ग, नई दिल्ली -110002 - कृपया सूचनार्थ।
3. संपादक, विश्वविद्यालय समाचार, एआईयू हाउस, 16 कोटला मार्ग, नई दिल्ली -110002
4. कुलपति के ओ एस डी - कृपया माननीय कुलपति, हि.प्र.के.वि. के सूचनार्थ।
5. प्रति-कुलपति के निजी सहायक - कृपया माननीय प्रति-कुलपति, हि.प्र.के.वि. के सूचनार्थ।
6. सभी अधिष्ठाता / विभागाध्यक्ष, हि.प्र.के.वि. - कृपया सूचनार्थ।
7. प्रो. मनुकोण्डा रबीन्द्रनाथ, मायान्लाम्बम बिमोलचन्द्र सिंह (पत्रकारिता एवं सृजनात्मक लेखन) सुपरवाइज़र - कृपया सूचनार्थ।
8. डॉ. अर्चना कटोच, मायान्लाम्बम बिमोलचन्द्र सिंह (पत्रकारिता एवं सृजनात्मक लेखन) को-सुपरवाइज़र - कृपया सूचनार्थ।
9. डॉ. शैलेन्द्र कुमार वर्मा, अंकिता शर्मा (कंप्यूटेशनल जीव विज्ञान एवं जैवसूचना) सुपरवाइज़र - कृपया सूचनार्थ।
10. कुलसचिव, हि.प्र.के.वि. - कृपया सूचनार्थ।
11. वित्त अधिकारी, हि.प्र.के.वि. - कृपया सूचनार्थ।
12. लोक सम्पर्क अधिकारी, हि.प्र.के.वि. - कृपया सूचनार्थ।
13. विद्यार्थी सूचना बोर्ड।
14. गार्ड फाइल।

परिष्ठा नियंत्रक

Self Attested  
Ankita Sharma

परिष्ठा नियंत्रक





हिमाचल प्रदेश केंद्रीय विश्वविद्यालय  
Central University of Himachal Pradesh  
(Established under Central Universities Act 2009)  
PO Box no. 21, Dharamshala, Distt. Kangra, Himachal Pradesh- 176215  
(Temporary Academic Block, Shahpur)

Dated: 27.12.2016

File No. LS/1-2/CUHP/12/01-112

**CIRCULAR**

The Ph.D. Viva-Voce examination of Ms. Aarti Rana, Registration No. CUHP12RDCBB01, Ph.D. Scholar in the Centre for Computational Biology and Bioinformatics, School of Life Sciences (SoLS) on her thesis **"Proteome-wide identification of Outer Membrane Proteins in pathogenic mycobacterial species: a repertoire of candidate immunogens for translational medicine"** will be held on 04<sup>th</sup> January, 2017 at 02:00 PM (onwards) in the Seminar Hall of Central University of Himachal Pradesh, Temporary Academic Block, Shahpur.

All the Faculty members and RD Scholars are cordially invited to be present in the Viva-Voce examination of Ms. Aarti Rana.

  
27/12/16  
Dean,

School of Life Sciences

**Copy to:**

1. Ms. Aarti Rana, Ph.D. Scholar, Centre for Computational Biology and Bioinformatics.
2. Dr. Yusuf Akhter (Supervisor), Assistant Professor, Centre for Computational Biology and Bioinformatics, SoLS, Central University of Himachal Pradesh, TAB, Shahpur.
3. The Director, Centre for Computational Biology and Bioinformatics, SoLS, Central University of Himachal Pradesh, TAB, Shahpur.
4. The Controller of Examinations, Central University of Himachal Pradesh, TAB, Shahpur.
5. All Deans/Heads/Directors of the different Schools, Central University of Himachal Pradesh, TAB, Shahpur.
6. All the Faculty Members of the Centre for Computational Biology and Bioinformatics, SoLS, Central University of Himachal Pradesh, TAB, Shahpur.
7. The Finance Officer, Central University of Himachal Pradesh, TAB, Shahpur.
8. The Registrar, Central University of Himachal Pradesh, Camp Office, Dharamshala.
9. The Hon'ble Pro-Vice-Chancellor, Central University of Himachal Pradesh, TAB, Shahpur.
10. PS to VC for kind information of the Hon'ble Vice Chancellor, Central University of Himachal Pradesh, Camp Office, Dharamshala.

  
Dean,

School of Life Sciences

**No. BT/PR13692/BID/7/543/2015**  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors  
CGO Complex, Lodhi Road,  
New Delhi- 110 003  
Dated:     /     /

**ORDER**

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "**Genome wide identification of metal binding proteins in bread wheat**" for a period of 3 Year 0 Month at a total cost of Rs. **2384600** (Rupees Twenty Three Lakhs Eighty Four Thousand Six Hundred Only) on the terms and conditions detailed here under:-

**2 The Project :**

**2.1 Title :**     "**Genome wide identification of metal binding proteins in bread wheat**"

**2.2 Details of the Investigators:**

**Dr. Shailender Kumar Verma**

Assistant Professor  
School of Life Sciences  
Central University of Himachal Pradesh  
Room 210, Computational Biology

**Dr. Shailender Kumar Verma**

Assistant Professor  
School of Life Sciences  
Central University of Himachal Pradesh  
Room 210, Computational Biology

**2.3 Objectives:**

1. Genome wide in silico screening of putative metal binding proteins based on sequence motifs (Ca, Mg, Fe, Zn, Na, P, Cu, Mn, Mo)
2. Homology modeling and elucidation of metal binding structural motifs
3. Functional classification of metal binding proteins
4. Chromosomal localization of genes encoding metal binding proteins, primer designing and PCR analysis.
5. Experimental validation of shortlisted metal binding proteins using cloning, expression and purification of recombinant proteins, metal binding assays and tertiary structure analysis of metal-protein complexes.

**2.4 Time Schedule:**

The duration of the project is 3 Year 0 Month from the date of this sanction order.

**2.5 Project Cost:**

The total cost of the project is Rs. **2384600/-** (Rupees Twenty Three Lakhs Eighty Four Thousand Six Hundred Only) as per details given below :

<b>Budget Head</b>	<b>Year I</b>	<b>Year II</b>	<b>Year III</b>	<b>Total(Rs.)</b>
Equipment	555000.00			<b>555000.00</b>
Manpower	330000.00	330000.00	369600.00	<b>1029600.00</b>
Overhead	50000.00	50000.00	50000.00	<b>150000.00</b>
Travel	50000.00	50000.00	50000.00	<b>150000.00</b>
Consumables		200000.00	150000.00	<b>350000.00</b>
Contingency	50000.00	50000.00	50000.00	<b>150000.00</b>
<b>Total (Rs.)</b>	<b>1035000.00</b>	<b>680000.00</b>	<b>669600.00</b>	<b>2384600.00</b>

## 2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at **Annexure-I**

## 2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at **Annexure-II**

## 3. Head of Account:

The **Non-Recurring** expenditure involved is debitable to:

<b>Demand No. 89</b>	<b>Department of Biotechnology</b>
<b>3425</b>	Other Scientific Research 2016-2017
<b>3425.60</b>	Others (Sub Major Head)
<b>3425.60.200</b>	Assistance to other Scientific Bodies (Minor Head)
<b>3425.60.200.29</b>	Biotechnology Research and Development
<b>3425.60.200.29.17</b>	Assistance for Research and Development
<b>3425.60.200.29.17.35</b>	Grants for creation of capital assets

The **Recurring** expenditure involved is debitable to:

<b>Demand No. 89</b>	<b>Department of Biotechnology</b>
<b>3425</b>	Other Scientific Research 2016-2017
<b>3425.60</b>	Others (Sub Major Head)
<b>3425.60.200</b>	Assistance to other Scientific Bodies (Minor Head)
<b>3425.60.200.29</b>	Biotechnology Research and Development
<b>3425.60.200.29.17</b>	Assistance for Research and Development
<b>3425.60.200.29.17.31</b>	Grants-in-aid General

## 4. Terms & Conditions:

- The Non Recurring item must be procured and installed within six month period from the date of sanction.
- In case the whole or a part of the amount of the Grants for Creation of Capital Assets is being refunded, an interest rate of ten percent thereon shall be recovered.
- In case the whole or a part of the amount of the Grants in Aid is being refunded, an interest rate of ten percent thereon shall be recovered.

- 4.1** The other terms and conditions governing this sanction are attached at Annexure- III.
- 4.2A** Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA between the grantee institutions and DBT. In case of NGO's and Private Institution's, execution of MOA is mandatory before first release. A format of the MoA is enclosed in Annexure-IV
- 4.3** The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The interest earned should be remitted to the Consolidated fund of India through Bharat Kosh portal([www.bharatkosh.gov.in](http://www.bharatkosh.gov.in)) as per GFR-2017-230(8) after finalization of the account for a given Financial Year.
- 5.** No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
- 6.** The Director, Central University of Himachal Pradesh, Dharamshala, Himachal Pradesh and The Registrar, Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.
- 7.** PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.SR/S9/Z-09/2012 dated on 21 Oct 2014. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
- 8.** As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.
- 9.** If the Research Project involves biological resources, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at [www.nbaindia.org](http://www.nbaindia.org)
- 10.(I)** "The PIs/Implementing Agencies shall strictly adhere to the GoI instructions issued vide OM No.F.4.1.2021-PPD dated 30.6.2021 in the matter of issue of Global tender Enquiry with special reference to instructions contained under para 4 of the said OM for procurement of equipments, spares and consumables for research purposes and shall not issue Global Tenders Enquiries before seeking the approval of the competent authority".
- (II) "After incurring the expenditure on import of such items and at the time of submission of UCs to the department next year, the PIs will also furnish the copy of the approval sought from the competent authority for issue of the GTE for such items of import. The release of next installment of grant will be subject to the fulfillment of the above condition."
- 11.** If any biological data as specified in the guidelines are being generated in the project then PI should submit the data generated in the project to Indian Biological Data Centre – The National Repository being implemented at Regional Centre for Biotechnology, Faridabad in compliance with the Biotech-PRIDE Guidelines 2021.
- 12.** This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No.**102/IFD/SAN/1587/2016-2017** dated **July, 14 2016**.
- 13.** This sanction order has been noted at serial no. \_\_\_\_\_ in the Register of Grants.

**(Dr. T Madhan Mohan)**  
**Sr.Adviser/Scientist 'H'**



**To,**  
The Pay & Accounts Officer,  
Department of Biotechnology,  
New Delhi – 110 003.

**Copy to:**

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 The Director, Central University of Himachal Pradesh, PO Box Number 21, Dharamshala - 176215, Himachal Pradesh
- 3 The Registrar, Babasaheb Bhimrao Ambedkar University, BABASAHEB BHIMRAO AMEBEDKAR UNIVERSITY VIDYA VIHAR, RAEBARELI ROAD, Lucknow - 226025, Uttar Pradesh
- 4 Dr. Shailender Kumar Verma, Assistant Professor, School of Life Sciences, Central University of Himachal Pradesh, Room 210, Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh, Dharamshala - 176206, Himachal Pradesh
- 5 Dr. Yusuf Akhter, Assistant Professor, Department of Biotechnology, Babasaheb Bhimrao Ambedkar University, Assistant Professor, Department of Biotechnology, Babasaheb Bhimrao Ambedkar University, Vidya Vihar, Raebareli Road, Lucknow-226025, Lucknow - 226025, Uttar Pradesh
- 6 Cash Section, DBT (2 copies).
- 7 Sanction Folder.
- 8 File Copy.

**(Dr. T Madhan Mohan)**  
**Sr.Adviser/Scientist 'H'**

**Annexure -I**

Details of the Equipment sanctioned for the implementation of the project entitled "**Genome wide identification of metal binding proteins in bread wheat**":

<b>Central University of Himachal Pradesh</b>			
<b>SNo.</b>	<b>Name of Equipment</b>	<b>No.</b>	<b>Cost(Rs.)</b>
1.	Mobile Workstation	1	555000.00
<b>Total</b>			<b>555000.00</b>

**(Dr. T Madhan Mohan)**  
**Sr.Adviser/Scientist 'H'**

**Annexure -II**

Details of the manpower sanctioned for the implementation of the project entitled "**Genome wide identification of metal binding proteins in bread wheat**":

<b>Head</b>	<b>No. of Position</b>	<b>Year I</b>	<b>Year II</b>	<b>Year III</b>	<b>Total (Rs.)</b>
Junior Research Fellow JRF@ Rs. 25,000/-+ 10% HRA	1	330000	330000	0	<b>660000</b>
Senior Research Fellow SRF@ Rs. 28,000/-+ 10% HRA	1	0	0	369600	<b>369600</b>
<b>Total(Rs.)</b>		<b>330000</b>	<b>330000</b>	<b>369600</b>	<b>1029600</b>

Emoluments detail of research personal(s) mentioned in table(s) of Annexure-II shall be applicable only if candidate(s) met educational qualification and eligibility criteria as per DST

OM No.SR/S9/Z-08/2018 dated 30.01.2019.

**(Dr. T Madhan Mohan)**  
**Sr.Adviser/Scientist 'H'**



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH  
HUMAN RESOURCE DEVELOPMENT GROUP  
(Extra Mural Research Division)  
CSIR Complex, Library Avenue, Pusa, New Delhi 110 012  
Tele: 25842074 / 25841701 / 25842729 / 25842704  
<http://www.csirhrdg.res.in>

File No:09/1196(0003)/2018-EMR-I

Date: 22/1/2021

MEMORANDUM

Subject: Upgradation of Junior Research Fellow JRF (NET) to Senior Research Fellow, SRF (NET)

Sir/Madam,

On the basis of satisfactory research progress of Mr. VIKRAM SINGH as assessed and recommended by the three member assessment committee on completion of two years as JRF, the Head – Human Resource Development Group (CSIR) has been pleased to upgrade fellowship from JRF (NET) to SRF (NET) and enhance stipend from Rs 31000/- p.m. to Rs 35000/- p.m. with effect from 01/08/2020 to 31/07/2021.

The Senior Research Fellowship is subject to the existing terms & conditions governing CSIR fellowship which inter-alia provides that the total tenure of JRF and SRF (from all sources) combined is limited to five years.

Head, HRDG, CSIR has further been pleased to sanction the following additional grant towards the stipend and contingency for the period commencing from 01/08/2020 to 31/07/2021

Stipend: Rs 4,20,000/-

Contingency: Rs 20,000/-

Total: Rs 4,40,000/-

The claim may be limited to the period of current financial years. For the period beyond that the claim may be submitted at the start of next financial year. No separate renewal sanction will be issued next year. The expenditure will be debited to the budget head grant-in-aid Fellowships P -81 101 for the current financial year.

**You are kindly advised to visit the HRDG(CSIR) website ([www.csirhrdg.res.in](http://www.csirhrdg.res.in)) for rules/regulations governing the fellowship/associateship. You are also advised to submit Annual Progress Report alongwith other requisite documents well in time. Noncompliance of CSIR norms for submission of annual progress report alongwith other requisite documents within six months after completion of yearly tenure may result in termination of fellowship/associateship.**

Yours faithfully,

SECTION OFFICER  
EMR-I  
22/1/2021

To,  
PROF. VIKRAM SINGH  
PROJECT GUIDE  
DEPT. OF CENTRE FOR COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, CENTRAL UNIVERSITY OF  
HIMACHAL PRADESH  
DHARAMSHALA KANGRA, H.P., Pin 176215

Copy to:

1. Mr. VIKRAM SINGH, Through Project Guide
2. Registrar, CENTRAL UNIVERSITY OF HIMACHAL PRADESH,  
DHARAMSHALA KANGRA, H.P.,  
Pin- 176215.
3. F&AO (EMR)
4. Bill File
5. Office Copy

*vikram.singh17571@gmail.com*





वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्  
COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH  
मानव संसाधन विकास समूह, परीक्षा एकक

Human Resource Development Group, Examination Unit  
सी.एस.आई.आर. कॉम्प्लेक्स, लाईब्रेरी एवेन्यू, पुसा, नई दिल्ली-110 012  
CSIR Complex, Library Avenue, Pusa, New Delhi-110 012

Dated: 29.11.2018

Sr.No. 1121731361  
Ref.No: 17/12/2017(II) EU-V  
ROLLNO: 311026  
Sh. VIKRAM SINGH  
S/O MOHINDER SINGH  
VPO NAGROTA SURIAN TEHSIL JAWALI  
DISTRICT KANGRA  
NAGROTA SURIAN HIMACHAL PRADESH 176027



Sub: - Joint CSIR-UGC National Eligibility Test (NET) for Junior Research Fellowship (JRF) and for Lectureship (LS) held on 17.12.2017 and result declared on 09.05.2018.

Dear Candidate,

CSIR is pleased to inform you that you have been declared qualified in the above examination for award of Junior Research Fellowship and secured **121** rank in **LIFE SCIENCES** subject under CSIR Fellowship scheme. Further, you have also been declared qualified for eligibility for Lectureship (LS) in the above subject area, subject to fulfilling the eligibility criteria laid down by UGC.

The offer of Junior Research Fellowship is valid for a period of two years w.e.f. 01.07.2018 and is not extendable. It will be governed by the terms and conditions of the CSIR Junior Research Fellowship.

In order to accept this offer, you should send the joining report, undertaking and & attestation proforma (which can be downloaded from our website [www.csirhrdg.res.in](http://www.csirhrdg.res.in)) and submit the same, duly completed in all respects to The Deputy Secretary (EMR)/US(EMR) at the address given overleaf.

This letter may be treated as a certificate.

Yours sincerely,

कै. नृहानशंग / K. NGAHANSHANG  
अंडर सचिव (परीक्षा) / Under Secretary (Exam)  
वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्  
Council of Scientific & Industrial Research  
सी. एस. आई. आर. कॉम्प्लेक्स, पुसा नई दिल्ली-12  
CSIR Complex, Pusa, New Delhi-110012

**Important Note:**

- (a) This certificate is being issued on the basis of information provided by the candidate in his/her application form. The appointing authority/fellowship awarding authority should verify the original records/certificates of the candidate while considering him/her for appointment/fellowship, as Examination Unit, CSIR Complex is not responsible for the same. In case the candidate has qualified under RA (Result Awaited Category) the certificate will be valid only from the date of acquiring the requisite qualification as stipulated in the notification. The details regarding the eligibility criteria for this test are given overleaf.
- (b) In case the candidate does not fulfil any of the eligibility conditions and Caste/PWD status (wherever applicable), this certificate may be treated as cancelled.



**INDIAN COUNCIL OF MEDICAL RESEARCH  
ANSARI NAGAR, NEW DELHI-110 029**

F. No.80/989/2015-ECD- I

Date:-31.05.2016

To

Dr. Yusuf Akhtar,  
Assistant Prof.,  
Central University of Himachal Pradesh,  
Shahpur,  
Kangra-176206

**Subject:-Award of SRF-ship to Ms. Padmini Sandhu on the project entitled "Structrual and phylogenetic studies on RND family multidrug transporters from *Mycobacterium tuberculosis*"**

Sir,

I am glad to inform you that the ICMR has awarded SRF ship to **Ms. Padmini Sandhu**, on a stipend of Rs. 28,000/- p.m. to carry out research on the project mentioned above under your guidance. H.R.A. and Medical reimbursement will be paid as per the rules of your Institute.

The award of Research Fellow will be subject to the following terms and condition:

**TENURE:-** It will be tenable for one year only from the date of joining duty and further extension will be on yearly basis subject to maximum of **two years (2)** based on the review of progress report by expert group.

The event of his leaving before completing one year on the fellowship, he may be required to refund the stipend drawn by her from the date of joining to the date of leaving the fellowship.

**PRIVATE PRACTICE:-** Private Practice of any kind, or taking up any appointment even in an honorary capacity during the fellowship is not permitted.

**ADMINISTRATIVE CONTROL:-** The candidate will be under the administrative control of the Institution where he works, and will also be subject to the rules and regulations of the Institute.

**LEAVE:** Leave will be admissible according to the leave rules of the Institution/University. However, in the case of female research fellows/Associated 180 days maternity leave with stipend will be admissible. Research Fellow / Associates are not entitled for vacation normally admissible to the staff of an Institution / University"

**HRA:-** HRA will only be paid, if the fellow is not availing any hostel facility. A certificate to this effect should be sent along with joining report for payment of HRA.

**REPORTS:-** The awardees shall submit 1<sup>st</sup> annual reports for the first 10 months. On the prescribed standard Performa. Ten copies of the first annual report should be submitted after 10 months from the date of commencement of the fellowship giving complete factual details of the research work done through the Guide along with her appraisal. Subsequent annual report should be submitted though the Guide two months before the completion of fellowship tenure. Failure to submit reports in time may lead to termination of the award. Ten copies of the final report in the prescribed form clearly shall be submitted one month before the date of termination of the award. A list of the papers published or presented at Scientific Conferences during the tenure of the fellowship should also be furnished with the annual and final reports.



**PUBLICATION OF PAPERS:-** Prior permission for publication of papers based on the research done during the tenure of the award should be obtained from the Council. The papers should be sent to the Council through the Guide with her recommendations. Due acknowledgement to the Council should be made in these papers.

**PAYMENT OF FUNDS:-** The stipend and the funds for contingencies shall be paid as per rules of the Council.

**CONTINGENT EXPENDITURE:-** An annual contingent grant of Rs. 20,000/- p.a. will be admissible for the financial year from 1<sup>st</sup> April to 31<sup>st</sup> March. In case a SRF join duty after 1<sup>st</sup> April, the contingent grant will be proportionate to the period of the award in that financial year. The contingent grant is given to meet petty expenditure for purchase of chemicals, reagents etc. No non-expenditure article or equipment can be purchased out of the grant.

**TRAVEL:-** Travelling allowance will not be admissible for joining duty on termination of the award. The Council may approve tours of research associate for :-

1. Attending symposium/seminar/conference provided the fellow/associate is presenting a paper which has been accepted by the organizers of the symposium/seminar/conference.
2. Field work connected with research.
3. TA/DA would be admissible as per the rules application to Central Government Officers with basis pay equivalent to the amount of the fellowship stipend.

**NOTE:-** The expenditure on this account will be met from the contingent grant sanctioned to the fellow.

**POST FELLOWSHIP CAREER:-**

4. The Research Fellow can register himself for postgraduate qualification and to utilize in her the work done by her fellowship tenure. A copy of the thesis submitted for postgraduate degree will have to be sent to the Council for information and record. Due acknowledgement to the ICMR should be made in the thesis by the research fellows.
5. The Research Fellow should send to the Council for information a brief report on the post/job taken by her after expiry of the fellowship.
6. The date indication forenoon/afternoon on which she the fellowship may please be intimated to this office. She may be asked to **report for duty within a month from the date of issue of this letter falling which the award will be treated as cancelled.**

Yours faithfully,

(Ishwar Likhar)  
Administrator Officer  
For Director-General

**Note: Please send the duly filled MANDATE FORM (in original, as per attached format) and a copy of cancelled cheque of the concerned bank where the money is to be remitted with your joining report for electronic transfer of your fellowship installments.**

1. Copy to:- Accounts Section - V, ICMR
2. The Dean, Central University of Himachal Pradesh, Shahpur, Kangra-176206
3. **Ms. Padmini Sandhu**, SRF, Central University of Himachal Pradesh, Shahpur, Kangra-176206
4. IRIS Cell
5. DEO (ECD)

  
For Director-General



पी.ए.बी.एक्स./PABX : +91-11-26588980, 26588707, 26589336,  
26589745, 26589873, 26589414  
फैक्स/FAX : +91-11-26588662, 26589791, 26589258

तार/GRAM : विज्ञान /SCIENTIFIC  
वेबसाइट/Website: www.icmr.nic.in  
ईमेल/Email: icmrhqds@sansad.nic



## भारतीय आयुर्विज्ञान अनुसंधान परिषद INDIAN COUNCIL OF MEDICAL RESEARCH

वी. रामलिंगस्वामी भवन, अंसारी नगर, पोस्ट बॉक्स 4911, नई दिल्ली - 110029  
V. RAMALINGASWAMI BHAWAN, ANSARI NAGAR, POST BOX 4911, NEW DELHI - 110029

No. ISRM/11(52)/2017

Dated: 06-07-18

To

Dr. Vikram Singh,  
Assistant professor.  
210, Centre for Computational Biology and Bioinformatics,  
Central University of Himachal Pradesh, (TAB),  
Shahpur, Kangra - 176206.

Subject: Award of Senior Research Fellowship to Ms. Neha Choudhary on research project entitled "To develop Systems Pharmacology Database of Ayurvedic Medicines (SPDAM)".

Sir,

The Director General, ICMR sanctions Senior Research Fellowship to Ms. Neha Choudhary on a stipend of Rs. 28,000/- p.m. to carry out research on the project mentioned above, under your guidance. Medical reimbursement and HRA will be paid as per rules of your Institute.

The award of SRF/ RA will be subject to the following terms and conditions:-

**TENURE:** It will be tenable for one year, from the date of joining duty and will be extended on yearly basis subject to a maximum of **three years**.

Its continuance will, however, depend on the satisfactory progress of work and can be terminated at any time on one month's notice, if the progress is not satisfactory, or on receiving adverse report from the Guide. The Fellow will be required to work on the project for a period of at least one year.

In the event of his/ her leaving before completing one year on the fellowship, he/she may be required to refund the stipend drawn by him/her from the date of joining to the date of leaving the fellowship.

**PRIVATE PRACTICE:** Private practice of any kind, or taking-up of any appointment even in honorary capacity during the fellowship period is not permitted.

**ADMINISTRATIVE CONTROL:** The candidate will be under the administrative control of the Institution where he/she works and will also be subject to the rules and regulations of the Institute.

**LEAVE:** Leave will be admissible according to the rules of the Institution, however in the case of female research fellows leave without stipend upto 6 months (in lieu of maternity leave) may be granted. No other kind of leave (such as sick leave) etc. will be admissible. Awardees are not entitled to vacation normally admissible to the staff of an Institution.

**HRA:** HRA will only be paid, if the SRF/RA is not availing any hostel facility. A certificate to this effect should be sent along with the joining report for payment of HRA.



**REPORTS:** The awardee shall submit 1<sup>st</sup> annual report for the first 10 months in the prescribed standard proforma. The first annual report should be submitted after 10 months from the date of commencement of the fellowship giving complete factual details of the research work done under the Guide along-with his/her appraisal. Subsequent Annual Report(s) should be submitted through the Guide, two months before the completion of tenure of fellowship. Failure to submit reports in time may lead to termination of the award of fellowship. Six copies of the final report in the prescribed format shall be submitted, one month prior to the date of termination of the fellowship program. A list of the papers published or presented at Scientific Conferences during the tenure of the fellowship should also be furnished with the annual and final reports.

**PUBLICATION OF PAPERS:** Prior permission for publication of papers based on the research work done during the tenure of the award should be obtained from ICMR. The paper should be sent to ICMR through the Guide with his/her recommendations. Due acknowledgement to ICMR for financial assistance should be made in these papers.

**PAYMENT OF FUNDS:** The stipend and the funds for contingencies shall be paid as per procedure laid down in the enclosed annexure.

**CONTINGENT EXPENDITURE:** An annual contingent grant of Rs. 20000/- p.a. will be admissible. The contingent grant is given to meet petty expenditure for purchase of chemicals, reagents etc. No non-recurring article or equipment can be purchased out of the grant.

**TRAVEL:** Traveling allowance will not be admissible for joining duty or on termination of the award. ICMR may approve tours of Research Fellows/Associate for :

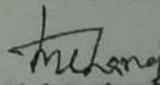
1. Attending symposium/seminar/conference provided the SRF/RA is presenting a paper which has been accepted by the organizers of the symposium/seminar/ conference.
2. Field work connected with research.
3. TA/DA would be admissible as per the rules applicable to Central Government Officers with basic pay equivalent to the amount of the fellowship stipend.

#### **POST FELLOWSHIP CAREER**

1. The SRF/RA can register himself/herself for postgraduate qualification and to utilize in his/her the work done by him/her during his/her fellowship tenure. A copy of thesis submitted for postgraduate degree will have to be sent to ICMR for information and record from the contingent grant sanctioned to the fellow. Due acknowledgement to the ICMR should be made in the thesis by the SRF/RA.
2. The SRF/RA should also send to ICMR a brief report on the post/job taken by him/her after the expiry of the fellowship.


The date indication forenoon/afternoon on which he/she the fellowship may please be intimated to this office. He/she may be asked to report for duty within a month from the date of issue of this letter failing which the award will be treated as cancelled.

Yours faithfully,

  
Administrative Officer  
for Director General

#### **Copy to:**

1. The Registrar, Central University of Himachal Pradesh, Shahpur, Kangra - 176206.
2. Research Fellow:- Ms. Neha Choudhary, SRF, Department of Computational Biology and Bioinformatics, Central University of Himachal Pradesh, Shahpur, Kangra - 176206.
3. Account Section - V, ICMR
4. Project ID No. 2017- 3735

  
Administrative Officer  
For Director General

(To be printed on Letter Head of Institute/ University)

TO WHOM IT MAY CONCERN

This is to certify that \_\_\_\_\_ who has joined as SRF/Research Associate on the  
\_\_\_\_\_ of \_\_\_\_\_ is availing/ not availing\* hostel facilities provided by the  
\_\_\_\_\_.

(Signature with Stamp of Guide)

Forwarded by  
(Head of Organization)

Note: To be sent alongwith with the joining of the fellow.  
\*strike out which is not applicable.





**icmr**  
INDIAN COUNCIL OF  
MEDICAL RESEARCH  
Serving the nation since 1911

भारतीय आर्यवैज्ञानिक अनुसंधान परिषद  
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार  
कल्याण मंत्रालय, भारत सरकार  
Indian Council of Medical Research  
Department of Health Research, Ministry of Health  
and Family Welfare, Government of India

No. BMI/11(77)/2020

Dated: 5/4/21

To

Dr. Shailender Kumar Verma,  
Assistant Professor, Centre for Computational Biology & Bioinformatics,  
School of Life Sciences, Central University of Himachal Pradesh,  
Kangra - 176206, Himachal Pradesh

**Subject:** Award of Senior Research Fellowship to Mrs. Himisha Dixit on research project entitled "A comprehensive study of metalloproteome of RNA viruses: an approach towards identification of novel therapeutics targets".

Sir/Madam,

The Director General, ICMR sanctions Senior Research Fellowship to Mrs. Himisha Dixit on a stipend of Rs. 35,000/- p.m. to carry out research on the project mentioned above, under your guidance. Medical reimbursement and HRA will be paid as per rules of your Institute.

The award of SRF/ RA will be subject to the following terms and conditions:-

**TENURE:** It will be tenable for one year, from the date of joining duty and will be extended on yearly basis subject to a maximum of three years.

Its continuance will, however, depend on the satisfactory progress of work and can be terminated at any time on a one month's notice, if the progress is not satisfactory, or on receiving adverse report from the Guide. The Fellow will be required to work on the project for a period at least one year.

In the event of his/ her leaving before completing one year on the fellowship, he/she may be required to refund the stipend drawn by him/her from the date of joining to the date of leaving the fellowship.

**PRIVATE PRACTICE:** Private practice of any kind, or taking up any appointment even in an honorary capacity during the fellowship period is not permitted.

**ADMINISTRATIVE CONTROL:** The candidate will be under the administrative control of the Institution where he/she works, and will also be subject to the rules and regulations of the Institute.

**LEAVE:** Leave will be admissible according to the rules of the Institution, however in the case of female research fellows leave with stipend upto 6 months (in lieu of maternity leave) may be granted. No other kind of leave (such as sick leave) etc. will be admissible. Awardees are not entitled to vacation normally admissible to the staff of an Institution.

**HRA:** HRA will only be paid, if the SRF/RA is not availing any hostel facility. A certificate to this effect should be sent along with the joining report for payment of HRA.

**REPORTS:** The awardee shall submit 1st annual reports for the first 10 months in the prescribed standard proforma. The first annual report should be submitted after 10 months from the date of commencement of the fellowship giving complete factual details of the research work done through the Guide alongwith his/her appraisal.

Subsequent annual report should be submitted through the Guide two months before the completion of fellowship tenure. Failure to submit reports in time may lead to termination of the award. Six copies of the final report in the prescribed form shall be submitted one month before the date of termination of the award. A list of the papers published or presented at Scientific Conferences during the tenure of the fellowship should also be furnished with the annual and final reports.

**PUBLICATION OF PAPERS:** Prior permission for publication of papers based on the research work done during the tenure of the award should be obtained from ICMR. The paper should be sent to ICMR through the Guide with



his/her recommendations. Due acknowledgement to ICMR for financial assistance should be made in these papers.

**PAYMENT OF FUNDS:** The stipend and the funds for contingencies shall be paid as per procedure laid down in the enclosed annexure.

**CONTINGENT EXPENDITURE:** An annual contingent grant of Rs. 20,000/- p.a. will be admissible. The contingent grant is given to meet petty expenditure for purchase of chemicals, reagents etc. No non- expenditure article or equipment can be purchased out of the grant.

**TRAVEL:**

Traveling allowance will not be admissible for joining duty or on termination of the award. ICMR may approve tours of research fellows/associate for:

1. Attending symposium/seminar/conference provided the SRF/RA is presenting a paper which has been accepted by the organizers of the symposium/seminar/ conference.
2. Field work connected with research
3. TA/DA would be admissible as per the rules applicable to Central Government Officers with basic pay equivalent to the amount of the fellowship stipend.

**POST - FELLOWSHIP CAREER**

1. The SRF/RA can register himself/herself for postgraduate qualification and to utilize in his/her the work done by him/her during his/her fellowship tenure. A copy of these submitted for postgraduate degree will have to be sent to ICMR for information and record from the contingent grant sanctioned to the fellow. Due acknowledgement to the ICMR should be made in the thesis by the SRF/RA.

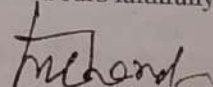
2. The SRF/RA should also send to ICMR a brief report on the post/job taken by him/her after the expiry of the fellowship.

The date indication forenoon/afternoon on which he/she joins the fellowship may please be intimated to this office. He/she may be asked to report for duty within a month from the date of issue of this letter failing which the award will be treated as cancelled.

**Note:**

1. The fellow should submit the acceptance letter along with the joining letter clearly indicated forenoon/afternoon on which he/she joins the fellowship, forwarded through head of the Institute stating that he/she will adhere to the terms and conditions of fellowships of ICMR. He/she may be asked to report for duty within a month from the date of issue of this letter failing which the award will be treated as cancelled.
2. Mandate form (in original) to be typed, signed and stamped on single page.
3. Cancelled cheque to be sent in original.
4. Duly filled HRA form should be sent in format enclosed.

Yours faithfully,



Administrative Officer  
For Director General  
Dharamshala, Distt. Kangra,

Copy to: The Registrar, Central University of Himachal Pradesh, P.O. Box No. 21, Dharamshala, Distt. Kangra, Himachal Pradesh - 176215

2. Research Fellow: Room No. 112A, CBB Research Lab, School of Life Sciences, Central University of Himachal Pradesh, Kangra, Himachal Pradesh - 176206

3. Account Section - V, ICMR

4. IRIS Cell No. 2020-7953

Administrative Officer  
For Director General



पी.ए.बी.एक्स./PABX : +91-11-26588980, 26588707, 26589336,  
26589745, 26589873, 26589414  
फैक्स/FAX : +91-11-26588662, 26589791, 26589258

तार/GRAM: विज्ञान /SCIENTIFIC  
वेबसाइट/Website: www.icmr.nic.in  
ईमेल/Email: icmrhqds@sansad.nic.in



## भारतीय आयुर्विज्ञान अनुसंधान परिषद INDIAN COUNCIL OF MEDICAL RESEARCH

बी. रामलिंगस्वामी भवन, अंतारी नगर, पोस्ट बॉक्स 4911, नई दिल्ली - 110029  
V. RAMALINGASWAMI BHAWAN, ANSARI NAGAR, POST BOX 4911, NEW DELHI - 110029

No. ISRM/11(38)/2017

Dated: 30-08-18

To,

Dr. Shailender Kumr Verma,  
Assistant Professor,  
School of Life Sciences,  
Central University of Himachal Pradesh,  
Temporary Academic Block, Shahpur,  
Kangra, Himachal Pradesh - 176206

Subject: Award of Senior Research Fellowship to Mr. Dixit Sharma on research project entitled "Genome-scale identification of unique pathway metalloproteins of scrub typhus intracellular pathogen Orientia tsutsugamushi: An approach towards potential therapeutic targets for translational medicine".

Sir,

The Director General, ICMR sanctions Senior Research Fellowship to Mr. Dixit Sharma on a stipend of Rs. 28,000/- p.m. to carry out research on the project mentioned above, under your guidance. Medical reimbursement and HRA will be paid as per rules of your Institute.

The award of SRF/RA will be subject to the following terms and conditions:-

**TENURE:** It will be tenable for one year, from the date of joining duty and will be extended on yearly basis subject to a maximum of three years.

Its continuance will, however, depend on the satisfactory progress of work and can be terminated at any time on a one month's notice, if the progress is not satisfactory, or on receiving adverse report from the Guide. The Fellow will be required to work on the project for a period at least one year.

In the event of her leaving before completing one year on the fellowship, she may be required to refund the stipend drawn by her from the date of joining to the date of leaving the fellowship.

**PRIVATE PRACTICE:** Private practice of any kind, or taking up any appointment even in an honorary capacity during the fellowship period is not permitted.

**ADMINISTRATIVE CONTROL:** The candidate will be under the administrative control of the Institution where she works, and will also be subject to the rules and regulations of the Institute.

**LEAVE:** Leave will be admissible according to the rules of the Institution, however in the case of female research fellows leave without stipend upto 6 months (in lieu of maternity leave) may be granted. No other kind of leave (such as sick leave) etc. will be admissible. Awardees are not entitled to avail vacation normally admissible to the staff of an Institution.

**HRA:** HRA will only be paid, if the SRF/RA is not availing any hostel facility. A certificate to this effect should be sent along with the joining report for payment of HRA.

**REPORTS:** The awardee shall submit 1st annual reports for the first 10 months in the prescribed standard proforma. The first annual report should be submitted after 10 months from the date of commencement of the fellowship giving complete factual details of the research work done through the Guide alongwith her appraisal. Subsequent annual report should be submitted through the Guide two months before the completion of fellowship tenure. Failure to submit reports in time may lead to termination of the award. Six copies of the final report in the prescribed form shall be submitted one month before the date of termination of the award. A list of the papers published or presented at scientific conferences during the tenure of the fellowship should also be furnished with the annual and final reports.

**PUBLICATION OF PAPERS:** Prior permission for publication of papers based on the research work done during the tenure of the award should be obtained from ICMR. The paper should be sent to ICMR through the Guide with her recommendations. Due acknowledgement to ICMR for financial assistance should be made in these papers.

**PAYMENT OF FUNDS:** The stipend and the funds for contingencies shall be paid as per procedure laid down in the enclosed annexure.

**CONTINGENT EXPENDITURE:** An annual contingent grant of Rs. 20000/- p.a. will be admissible. The contingent grant is given to meet petty expenditure for purchase of chemicals, reagents etc. No non-expenditure article or equipment can be purchased out of the grant.

**TRAVEL:**

Traveling allowance will not be admissible for joining duty or on termination of the award. ICMR may approve tours of research fellows/associate for:

1. Attending symposium/seminar/conference provided the SRF/RA is presenting a paper which has been accepted by the organizers of the symposium/seminar/ conference.
2. Field work connected with research
3. TA/DA would be admissible as per the rules applicable to Central Government Officers with basic pay equivalent to the amount of the fellowship stipend.

**POST - FELLOWSHIP CAREER**

1. The SRF/RA can register himself/herself for postgraduate qualification and to utilize in her the work done by her during her fellowship tenure. A copy of these submitted for postgraduate degree will have to be sent to ICMR for information and record from the contingent grant sanctioned to the fellow. Due acknowledgement to the ICMR should be made in the thesis by the SRF/RA.

2. The SRF/RA should also send to ICMR a brief report on the post/job taken by her after the expiry of the fellowship.

The date indication forenoon/afternoon on which she the fellowship may please be intimated to this office. She may be asked to report for duty within a month from the date of issue of this letter failing which the award will be treated as cancelled.

Yours faithfully,

Administrative Officer  
For Director General

Copy to: The Registrar, Central University of Himachal Pradesh, Kangra – 176206.

2. Research Fellow: Mr. Dixit Sharma, Department of Centre for Computational Biology and Bio, Central University of Himachal Pradesh, Kangra – 176206.

3. Account Section – V, ICMR

4. IRIS Cell No. 2017-3336

  
For Director General

# MANDATE FORM-EXTRA MURAL GRANTS

ELECTRONIC CLEARING SERVICE (CREDIT CLEARING)/REAL TIME  
GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENTS

## A. DETAIL OF ACCOUNT HOLDER :-

1	NAME OF ACCOUNT HOLDER OF INSTITUTE	
2	COMPLETE CONTACT ADDRESS	
3	TELEPHONE NUMBER / FAX / EMAIL	
4	NAME & ADDRESS OF PROJECT INVESTIGATOR	
5	TITLE OF THE PROJECT	

## B. BANK ACCOUNT DETAIL :-

1	BANK NAME	
2	BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE NUMBER AND EMAIL	
3	WHETHER THE BRANCH IS COMPUTERISED ?	
4	WHETHER THE BRANCH IS RTGS ENABLED ? IF YES, THEN WHAT IS THE BRANCH'S IFSC CODE	
1	IS THE BRANCH ALSO NEFT ENABLED ?	
2	TYPE OF BANK ACCOUNT (SB/CURRENT)	
3	COMPLETE BANK ACCOUNT NUMBER (LATEST)	
4	MICR CODE OF BANK	

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information I would not hold the user Institution responsible.

Date: (.....Signature & Seal of Project Investigator.....)

(Signature of Accounts  
officer of the Institute)

Certified that the particulars furnished above are correct as per our records.

(.....Signature & Seal of AO of the Concerned Division in ICMR)

Date:

## NOTE

\* Please attach a photocopy of cancelled cheque for purpose of verification of the concerned bank account where money is to be remitted.

\* Mandate form to be typed on a single page only  
\* HRA form to be filled in attached format

(To be printed on Letter Head of Institute/ University)

TO WHOM IT MAY CONCERN

This is to certify that  
[Name of the person]  
[Address of the person]

who has joined as SRF/Research Associate on the  
[availing/ not availing\*] hostel facilities provided by the  
[Institute/ University]

(Signature with Stamp of Guide)

Forwarded by  
(Head of Organization)

Note: To be sent along with the joining of the fellow.  
\*strike out which is not applicable.





# INDIAN COUNCIL OF MEDICAL RESEARCH

(Ministry of Health & Family Welfare, Govt. of India)

V. Ramalingaswami Bhawan, Ansari Nagar,  
New Delhi-110029

Correspondence at ICMR Campus II

Tuberculosis Association of India, 1<sup>st</sup> Floor, 3 Red Cross Road, New Delhi-110001

No. 3/1/2/97/2018-Nut.

Dated: 8/10/2018

Dr. Shailender Kumar Verma  
Assistant Professor,  
School of Life Sciences,  
Central University of Himachal Pradesh,  
Temporary Academic Book,  
Shahpur, Kangra,  
Himachal Pradesh, Pin:176206

Subject: Project entitled, "Proteome scale investigation of metalloproteins in staple foods for the enrichment of mineral micronutrients" to **Mrs. Ankita Sharma /SRF**.

Sir,

This is with reference to the above mentioned fellowship proposal submitted to ICMR for Senior Research Fellowship of Mrs. Ankita Sharma /SRF.

I am glad to inform you that the above mentioned fellowship proposal for SRF was discussed in the fellowship meeting of Division of Nutrition at ICMR Campus-II and **has been recommended** for the award of fellowship for a period of three years. The award letter however will only be issued after the receipt of Institutional Ethical Committee Clearance and Public Financial Management System (PFMS) details of your Institute.

It is requested to submit IEC certificate and PFMS details at the earliest to enable us to take further necessary action. It may be noted that the fellow can join only after release of award letter by the Council.

Yours faithfully,

  
(Anita Sharma)

Section Officer  
For Director General

Copy To:

1. Mrs. Ankita Sharma /SRF, Central University of Himachal Pradesh, Temporary Academic Book, Shahpur, Kangra, Himachal Pradesh, Pin:176206.
2. IRIS No. 2017-3370.
3. The Dean Students' Welfare, Central University of Himachal Pradesh, Temporary Academic Book, Shahpur, Kangra, Himachal Pradesh, Pin:176206.

For Director General

**Private and Confidential**

AL/09/17

Dr Shailender Kumar Verma  
Centre for Computational Biology and Bioinformatics  
School of Life Sciences  
Central University of Himachal Pradesh  
Kangra  
176206  
India

**11 October 2017**  
Our ref: **NF171396**

Dear Dr Verma,

The Royal Society has now considered your application for a Newton International Fellowship entitled "*Genetic regulation of metal distribution in cereal crops*", and we are delighted to inform you that your application has been successful. Securing a Newton International Fellowship is a major achievement; the scheme supports the development and training of postdoctoral researchers at an early stage in their career and provides you with a valuable opportunity to build long-lasting relationships with UK research institutions and networks.

In the following letter, we would like to set out the details of our offer. Please note that this award letter, together with the attached Conditions of Award as well as certain Policy and Position Statements, set out the terms and conditions of your Award. The offer of this Fellowship is conditional in all respects upon the acceptance of these terms and conditions of award by yourself and your host organisation. This offer is also on condition that we receive proof of the completion of your PhD (including successful viva) before the start of the fellowship. In case of any unforeseen changes to the original application, please contact the Royal Society (see below for contact details).

Your appointment should be referred to as a '**Newton International Fellow**' and this title should be used at all times. The Newton International Fellowships is a partnership between three of the UK's national academies, The Royal Society, The British Academy and the Academy of Medical Sciences.



President Sir Venki Ramakrishnan  
Executive Director Dr Julie Maxton  
Founded in 1660, the Royal Society  
is the independent scientific academy  
of the UK, dedicated to promoting  
excellence in science.  
Registered Charity No 207043

**Host organisation**

The place of tenure for your fellowship is the John Innes Centre, under the supervision of Dr Janneke Balk.

The UK host is responsible for all programme arrangements within the UK for the visiting Fellow. Please note that the Royal Society cannot assist with issues of visas or work permits, which must be obtained with the assistance of your UK host organisation.

**Start date and duration of award**

Your Fellowship will start on **1 January 2018** and is scheduled to end on **31 December 2019**. The duration of the Fellowship is **24 months**.

**Value and purpose of award**

You will receive the following through your UK host organisation:

	<b>Year 1</b> 1/1/2018 - 31/12/2018	<b>Year 2</b> 1/1/2019 - 31/12/2019	<b>Total</b>
Subsistence Allowance	£24000	£24000	£48000
Research expenses	£8000	£8000	£16000
Relocation Expenses	£2000	£0	£2000
<b>Total</b>	<b>£34000</b>	<b>£32000</b>	<b>£66000</b>

In addition, the host organisation will receive an allowance for overhead expenses, amounting to 50% of the annual value of the Newton International Fellowship (including relocation expenses). You are not considered to be an employee of the UK host organisation, or the Royal Society for the duration of the Fellowship. **It is expected however that your host organisation gives you the necessary departmental and institutional support to complete your Fellowship successfully, including adequate office and laboratory space and access to essential equipment, software and facilities.** Research staff should be appointed on terms that are no less favourable than those of comparable posts in the host organisation.

**Research expenses**

You may use the research expenses funding as appropriate to support your research in line with your application, there are however a few exceptions. Research expenses may not be used to cover:

- publication costs;
- patent costs;
- any personal costs including that of dependents; and
- salary costs or other costs of administrative or research staff.

Please note that the costs of attending or organising conferences, workshops or seminars for the purposes of disseminating your research must be limited to £3,000 per year. We will consider requests to exceed this limit on a case by case basis.



## **Focus of the Newton International Fellowship Scheme**

As a Newton International Fellow, you are expected to devote your time to research and not hold any other research or teaching positions in the UK.

## **Travel Overseas**

You may undertake research visits abroad, during the tenure of your Fellowship, but these must not normally total more than one month per annum and must be essential to the research project. Prior approval must be obtained from the Royal Society for any research visits totalling more than one month. It is the responsibility of you and your UK host organisation to ensure that appropriate insurance is obtained for overseas travel and fieldwork.

## **Leave**

Under the terms of your fellowship you are entitled to take the full period of maternity, paternity, shared parental, adoptive or extended sick leave as defined in your UK host organisation's standard organisational policy. A fully funded extension will be added to account for any time lost within the original period of the fellowship. Please get in touch with your Royal Society contact (as below) to receive a copy of the full policy or to request a period of leave from your fellowship. Requests for such leave must be made by you and approved by the Royal Society in advance of the leave period commencing.

## **Alumni programme**

At the end of your fellowship, you will automatically become a member of the alumni programme. The aim of this programme is to provide ongoing networking opportunities in the UK. Newton International Fellows who have completed at least 18 months of their fellowship and who leave the UK at the end of their Fellowship may be eligible to apply for follow on funding, to support networking opportunities with research organisations in the UK. Further information will be provided at the end of your fellowship.

## **Engagement with the UK academies**

Both during your stay in the UK as a Newton International Fellow, and as a long term Alumnus once you have left the UK, we will invite you to participate in a number of activities and professional training opportunities. We consider these engagements to be of mutual benefit and hope you will take advantage of these opportunities. The development of long term contacts between national academies and Newton International Fellows is regarded as a cornerstone of this Fellowship.

You may wish to join the Newton International Fellows group on LinkedIn for updates on upcoming opportunities and to connect with the other Fellows: <https://www.linkedin.com/groups/6692277>

After your award has finished, we will contact you at regular intervals for further information on your career progression. It is expected that you will provide this information which will be crucial for sustaining and improving our international networking opportunities.

## **Reporting**

In February/March each year those Fellows who are six months or more into their fellowship will be required to complete an annual report with details about their research activity in the previous financial

year. Information from this annual report will update us of your individual progress and be used both to fulfil the Society's own reporting requirements and highlight the impact of Royal Society funding more broadly.

Within three months of the end of your fellowship you will be required to complete a final report, and your UK host organisation to submit a final financial income and expenditure statement.

#### **Promotion**

During the period of your award, you are asked to identify clearly in all communications/publications the Royal Society as the funding source of your research fellowship. You are asked to describe your position as a **Newton International Fellow**.

#### **Your support for your Newton Fellowship**

Your contact at the Royal Society is Jessica East / Maria Magdalena Razalan, [info@newtonfellowships.org](mailto:info@newtonfellowships.org). Please make sure that you, and especially your UK co-applicant and UK host organisation, include your fellowship reference code (see Our ref: at the top of this letter) on all the communications related to this award.

#### **Acceptance and payment procedures**

Your award will be paid directly to the host organisation via BACs transfer. The payments will be made in arrears in quarterly instalments.

A copy of this letter will be sent to Dr Janneke Balk.

Finally, we would like to offer our congratulations, once again, on receiving a Newton International Fellowship.

Yours sincerely,



Natasha Bevan  
Head of International Grants

cc. Dr Janneke Balk

Encl. Conditions of Award



Meyerhofstr. 1  
D-69117 Heidelberg  
Germany

Postfach 1022.40  
D-69012 Heidelberg  
Germany

Shailender Kumar Verma  
Room 210, Computational Biology and Bioinformatics  
School of Life Sciences  
Central University of Himachal Pradesh  
Kangra: 176206, Himachal Pradesh  
India

16 September 2016

Ref: ASTF 325 - 2016

Dear Shailender Kumar Verma,

I am happy to inform you that the EMBO has awarded you a short term fellowship to visit the Institut de Biologie Intégrative des Plantes CNRS, in Montpellier, for 30 days.

Will you kindly confirm your acceptance of the award as well as the dates of the start and the finish of your visit. Please confirm your acceptance within 30 days of the present letter; the offer of the fellowship is to be considered as valid only within that period. Please provide the details of your bank including name and address, account number and main holder together with SWIFT/BIC code and IBAN code if available from your bank. We will arrange your payment one or two weeks before you leave.

Should any change occur in your plans, kindly inform me; in particular should your visit be cancelled or shortened, you will be required to make an appropriate refund to EMBO.

Please remember that this organization requires a scientific report on your fellowship; this should be succinct but is a condition of the award.

The Council of EMBO wishes me to inform you that the present award is financially sponsored by the 27 governments which contribute to the General Programme of the European Molecular Biology Conference.

Yours sincerely,

**David del Alamo**  
**Fellowship Programme Manager**

Total stipend and travel: 3259.7 Euros



**Private and Confidential**

Dr Shailender Kumar Verma  
Room 210, CBB, Central University of Himachal Pradesh,  
School of Life Sciences  
Kangra  
176206  
India

**17 September 2021**

Our ref: AL\211022 - **Newton International Fellowships Alumni 2021**

Dear Dr Verma,

The Royal Society has now considered your application for the **Newton International Fellowships Alumni 2021**, and we are delighted to inform you that your application for follow on funding has been successful.

In the following, I would like to set out the details of the Society's offer of award. Please note that this award letter sets out the terms and conditions of your Award. The award of this grant is conditional in all respects upon the acceptance of these terms and conditions of award by you.

**Award Details**

**Applicant:** Dr Shailender Kumar Verma

**Applicant Country:** India

**Project Title:** Crop metallomics: fractionation and identification of zinc-binding proteins in wheat.

**Start Date:** 01 July 2021

**End Date:** 31 December 2022

**Duration:** 18 months

**Award Value:** £6,000.00

The funding is to be used to support eligible costs associated with the award including travel and subsistence, and, if applicable, some research expenses of the project (as detailed in the scheme notes). The award total will be paid in its entirety at the start of the award. Any unspent funds must be returned to the Society at the end of the award or will be subtracted from the total amount awarded to you as follow on support in subsequent years.

Should award finances remain unspent at the very end of the award period (5 years), then these must be returned promptly to the Society following reconciliation of the award. A reconciliation statement must be completed and returned within 3 months of the end date of the award period. The completed final reconciliation statement received by the Royal Society represents the final statement of expenditure for the Award.

The applicant is responsible for all travel and programme arrangements related to the award. The Royal Society cannot assist with issues relating to visas and work permits.

### **Acceptance and payment procedures**

You are required to accept this offer of award online. You will find instructions for accepting the offer online in the accompanying cover e-mail.

Please confirm acceptance of award within 2 weeks of the offer being issued.

If you have elected to have the award funding paid to your organisation, you are required to forward this letter to your Research Services office as evidence of your award, including details of the start and end date of the award.

Award finances will be paid in to the account for which you have provided details upon notification of the award. Payments will be made processed at the end of October and paid by BACS transfer via our approved Foreign Exchange supplier. Please allow as least **15 days** for funding to reach your account.

### **Reporting**

As a condition of this award, you are required to submit a final report within three months of the end date of the award (i.e. after 5 consecutive years from the completion of your Newton International Fellowship). The final report comprises a short questionnaire which should be completed online. Further details on how to submit a final report will be sent to you in due course.

### **Change Requests**

The Society will consider change requests during the tenure of your award and expects to be formally notified of any change requests, including termination of your award prematurely, at least **one month** prior to the change taking effect, or in the case of changes to your personal circumstances, as soon as is reasonably possible. Should you wish to make a change request on your current award then please contact your scheme manager who will provide you with the current link to the Flexi-Grant change request form.

### **Data Sharing with Partners and Funders**

As part of our agreement with our funders and partners (or their representatives), the personal data you provide in your application, subsequent reports, and financial statements will be used for the purposes of:

- Reporting activities, research outputs and impacts arising from grants and awards;
- Monitoring and evaluation, including statistical analysis in relation to the evaluation of research and the study of trends;
- Contacting you about our activities and events or those of the partner/funder

The Royal Society may also publish basic details of successful awards on its websites and other publicly available databases, and in reports, documents and mailing lists.

**Your support at the Royal Society**

For any queries relating to this award please contact us by e-mail: [alumni@newtonfellowships.org](mailto:alumni@newtonfellowships.org)

Finally, we would like to offer you our congratulations on obtaining follow on support.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Natasha', followed by a long horizontal flourish.

Natasha Bevan  
Head of International Grants  
The Royal Society



**Private and Confidential**

Dr Shailender Kumar Verma  
Room 210, CBB, Central University of Himachal Pradesh, Kangra, Himachal Pradesh, India  
School of Life Sciences  
Kangra  
176206  
India

**05 November 2020**

Our ref: AL\201038 - **Newton International Fellowships Alumni 2020**

Dear Dr Verma,

The Royal Society has now considered your application for the **Newton International Fellowships Alumni 2020**, and we are delighted to inform you that your application for follow on funding has been successful.

In the following, I would like to set out the details of the Society's offer of award. Please note that this award letter sets out the terms and conditions of your Award. The award of this grant is conditional in all respects upon the acceptance of these terms and conditions of award by you.

**Award Details**

**Applicant:** Dr Shailender Verma

**Applicant Country:** India

**Project Title:** Eradicating micronutrient deficiencies: Optimizing essential metal content and availability in seeds of wheat for global health

**Start Date:** 01 July 2020

**End Date:** 30 June 2022

**Duration:** 24 months

**Award Value:** £6,000.00

The funding is to be used to support eligible costs associated with the award including travel and subsistence, and, if applicable, some research expenses of the project (as detailed in the scheme notes). The award total will be paid in its entirety at the start of the award. Any unspent funds must be returned to the Society at the end of the award or will be subtracted from the total amount awarded to you as follow on support in subsequent years.

Should award finances remain unspent at the very end of the award period (5 years), then these must be returned promptly to the Society following reconciliation of the award. A reconciliation statement must be completed and returned within 3 months of the end date of the award period. The completed

final reconciliation statement received by the Royal Society represents the final statement of expenditure for the Award.

The applicant is responsible for all travel and programme arrangements related to the award. The Royal Society cannot assist with issues relating to visas and work permits.

### **Acceptance and payment procedures**

You are required to accept this offer of award online. You will find instructions for accepting the offer online in the accompanying cover e-mail.

Please confirm acceptance of award within 2 weeks of the offer being issued.

If you have elected to have the award funding paid to your organisation, you are required to forward this letter to your Research Services office as evidence of your award, including details of the start and end date of the award.

Award finances will be paid in to the account for which you have provided details upon notification of the award. Payments will be made processed at the end of November and paid by BACS transfer via our approved Foreign Exchange supplier. Please allow as least **15 days** for funding to reach your account.

### **Reporting**

As a condition of this award, you are required to submit a final report within three months of the end date of the award (i.e. after 5 consecutive years from the completion of your Newton International Fellowship). The final report comprises a short questionnaire which should be completed online. Further details on how to submit a final report will be sent to you in due course.

### **Change Requests**

The Society will consider change requests during the tenure of your award and expects to be formally notified of any change requests, including termination of your award prematurely, at least **one month** prior to the change taking effect, or in the case of changes to your personal circumstances, as soon as is reasonably possible. Should you wish to make a change request on your current award then please contact your scheme manager who will provide you with the current link to the Flexi-Grant change request form.

### **Data Sharing with Partners and Funders**

As part of our agreement with our funders and partners (or their representatives), the personal data you provide in your application, subsequent reports, and financial statements will be used for the purposes of:

- Reporting activities, research outputs and impacts arising from grants and awards;
- Monitoring and evaluation, including statistical analysis in relation to the evaluation of research and the study of trends;
- Contacting you about our activities and events or those of the partner/funder

The Royal Society may also publish basic details of successful awards on its websites and other publicly available databases, and in reports, documents and mailing lists.

**Your support at the Royal Society**

For any queries relating to this award please contact us by e-mail: [alumni@newtonfellowships.org](mailto:alumni@newtonfellowships.org)

Finally, we would like to offer you our congratulations on obtaining follow on support.

Yours sincerely



Natasha Bevan  
Head of International Grants  
The Royal Society



Heardels

S.No. 02(I)/R



सत्यमेव जयते

विश्वविद्यालय अनुदान आयोग  
(मानव संसाधन विकास मंत्रालय, भारत सरकार)  
बहादुरशाह ज़फ़र मार्ग, नई दिल्ली - 110 002

University Grants Commission  
(Ministry of Human Resource Development, Govt. of India)  
Bahadurshah Zafar Marg, New Delhi - 110 002

ज्ञान - विज्ञान विमुक्तये  
[www.ugc.ac.in](http://www.ugc.ac.in)  
Ph. No. 011-23604519

**SPEED POST**

F.NO.5-27/2016(IC)

February, 2016

Dr. Polamarasetty Aparoy  
Assistant Professor  
Department of Centre for Computational Biology and Bioinformatics  
Central University of Himachal Pradesh,  
Kangra-176215

110 FEB 2016

**Subject: - Raman Fellowship for Post Doctoral Research in USA for the Year 2015-16 to be awarded by University Grants Commission.**

Sir/Madam,

With reference to your application on the subject cited above, I am pleased to inform you that the UGC has awarded you Raman Fellowship for Post-Doctoral Research in USA for a period of **12 Months.**

The candidate selected for the award of this fellowship should join the fellowship host institution in USA within six month period from the date of award announcement.

Rules governing payment of salary, Study leave, medical, gratuity, GPF and Pension etc. of the organization / institution / university to which the fellow belongs would continue to be applicable. No liability on any of these accounts will be borne by UGC. However, UGC letter No. 1-6/2012(PS) dated 7<sup>th</sup> June, 2013 (copy enclosed) may be referred to regarding the grant of study leave to university and college teachers.

**The terms and conditions governing the fellowship are as follows:-**

- The fellow will be entitled to fellowship amount of US \$ 3000 per month.
- The fellow will also be entitled to one time personal contingency grant of up to a maximum amount of Rs. 50,000 to cover for visa, airport transfer, medical insurance etc.
- Fellow will also be permitted to travel within USA to attend conferences or other institutes of interest with the approval of the advisor of the host institute. The fellow will be provided grants for this purpose as per the following:
  - I. Grant of \$ 600 for fellowship period up to 6 months.
  - II. Grant of \$ 1200 for fellowship period beyond 6 months.

Air-tickets for the selected fellow would be purchased by the respective university/ institution by economy class for shortest route directly from Air India from their place of work in India to the place of the American host institute and back. The actual ticket amount would be reimbursed by UGC to the institution for the same on submission of the following documents duly certified by the competent authority of the institution:



- Visit Report (pro-forma enclosed).
- Utilization Certificate and Item-wise Statement of Expenditure (pro-forma enclosed).
- Fellowship Completion Certificate from the US Host Institute.
- Original Air Tickets and Boarding Passes.
- Receipts of Visa fee, SEVIS fee & Insurance charges.

The scholar should submit the above mentioned documents as per the prescribed pro-forma within 45 days after the completion of his/her research work in USA.

In case the fellow leaves the host institution or fellowship without completing the research work, he/she shall be liable for refund of entire fellowship amount within a period of 02 months, failing which it will be treated as misconduct on the part of the fellow, and the Commission shall recommend to the parent institution in India for recovery of award amount and initiation of suitable departmental action against the erring fellow.

If the above -mentioned terms and conditions are acceptable, you are requested to convey your acceptance for availing the fellowship as well as your tentative / final tour program by 15<sup>th</sup> April, 2016. However, one shall have to submit the final tour program before leaving India to pursue the research work at USA. You are also requested to submit the duly filled mandate form (account details of your university/college) along with the acceptance letter (a blank copy of mandate form enclosed).

Encl. As above

Yours faithfully,

  
(Dr. (Mrs) Manju Singh)  
Joint Secretary

**Copy to:-**

**The Registrar/ The Principal:-**  
**Central University of Himachal Pradesh,**  
**Kangra-176215**

UGC will release the admissible fellowship amount to the employer institution of the selected candidate in one instalment and the institution should also provide the same to the candidate in one installment at the time of relieving him/her. Fellowships are non-taxable as per section 10(16) of the Income Tax Act, 1961.

  
(Mriganka Sekhar Sarma)  
Education Officer

  
**ISSUED**

Gmail

Maresh Kulharia <kulharia.himachal@gmail.com>

wd: FW: SERB Indo-US Postdoctoral Fellowship 2016/ 152-Polamarasetty

aparoy

message

Fri, Apr 8, 2022 at 12:50 PM

Vipin Upadhyay <vipinupadhaya@gmail.com>  
To: Maresh Kulharia <kulharia.himachal@gmail.com>

----- Forwarded message -----

From: **aparoy p** <aparoy@gmail.com>  
Date: Fri, Apr 8, 2022 at 12:23 PM  
Subject: Fwd: FW: SERB Indo-US Postdoctoral Fellowship 2016/ 152-Polamarasetty Aparoy  
To: Vipin Upadhyay <vipinupadhaya@gmail.com>

----- Forwarded message -----

From: **fellowship** <fellowship@indousstf.org>  
Date: Mon, Aug 8, 2016 at 5:25 PM  
Subject: FW: SERB Indo-US Postdoctoral Fellowship 2016/ 152-Polamarasetty Aparoy  
To: aparoy@gmail.com <'aparoy@gmail.com'>, aparoy@cuhimachal.ac.in <'aparoy@cuhimachal.ac.in'>

## **REMINDER**

Dear Dr. Aparoy,

Kindly note the email below and request you to expedite the process.

Best regards,

**Radhika Tandon**

**Senior Program Associate**

**INDO-US SCIENCE & TECHNOLOGY FORUM**



Fulbright House, 12, Hailey Road

New Delhi 110 001

Phone:- 91-11-42691709

Fax :-91-11-23321552

E-mail:- fellowship@indousstf.org

Web:www.iusstf.org/ www.indousstf.org



From: fellowship  
Sent: 22 July 2016 PM 03:34  
To: 'aparoy@gmail.com'; 'aparoy@cuhimachal.ac.in'  
Cc: Smriti Trikha  
Subject: SERB Indo-US Postdoctoral Fellowship 2016/ 152-Polamarasetty Aparoy

Dear Dr. Aparoy,

I am pleased to inform that you have been selected for the **SERB Indo-US Postdoctoral Fellowship** for the year 2016 supported by the **Science and Engineering Research Board (SERB)** and **Indo-US Science and Technology Forum (IUSSTF)**. The fellowship has been approved for duration of twelve months with **Prof. Alexander D. MacKerell Jr. at University of Maryland, Maryland**. The fellowship should commence latest before **31<sup>st</sup> January 2017**.

SERB- Indo US Post-doctoral Fellowship will include:

- Monthly Fellowship (Grant-in aid) of USD 3000 per month
- Return Airfare to be provided directly by the IUSSTF travel desk by economy class and shortest route from your place of work in India to the place of the U.S. host institute and back.
- Personal Contingency grant upto Rs. 60,000 to cover expenses for US Visa and airport transfers for the duration of the fellowship
- Overseas Medical Insurance upto Rs. 20,000
- Conference Allowance (if applicable) of Rs. 74,000 for the fellowship period

Please note that the Award is subject to providing your acceptance to the terms and conditions laid by SERB as detailed in the Bond. (Format attached)

You are requested to submit the following and intimate your acceptance of the latest by **12<sup>th</sup> August 2016**.

1. Duly signed SERB Bond (format attached)
2. Tentative schedule of your U.S. visit
3. Details of the name and designation of the officer in your parent institution and in whose favor, the grant is to be released along with corresponding bank details. Incase you have no institutional affiliation, please provide your banking details.
4. High resolution scan of your passport size photograph
5. A copy of first and last pages of your passport.

Please send in your acceptance along with the above mentioned documents to my colleagues Dr. Smriti Trikha at [strikha@indousstf.org](mailto:strikha@indousstf.org) and Ms. Radhika Tandon at [fellowship@indousstf.org](mailto:fellowship@indousstf.org).

Kindly quote the above referred Award Number in all your future correspondence with us.

Best wishes for an academically rewarding experience through this prestigious fellowship.

Best regards,

Rajiv

Dr. Rajiv K. Tayal, FNAE

Executive Director

INDO-US SCIENCE & TECHNOLOGY FORUM

Bright House, 12, Hailey Road  
New Delhi 110 001

Phone:- 91-11-23321555 & 42691700

Fax :-91-11-23321552

E-mail:- rajiv@indousstf.org; ed.iusstf@gmail.com

www.iusstf.org

--  
Dr. Aparoy Polamarasetty  
Assistant Professor  
Biology  
Indian Institute of Petroleum and Energy  
Visakhapatnam  
Mobile: +91-8219241123

Previously,  
Assistant Professor  
Centre for Computational Biology and Bioinformatics  
Central University of Himachal Pradesh

--  
Thanks and Regards

Vipin Upadhyay

Technical Assistant

Center for Computational Biology and Bioinformatics

School of Life Sciences, Central University of Himachal Pradesh

Shahpur Campus, District Kangra - 176206 Himachal Pradesh

**Private and Confidential**

AL/09/17

Dr Shailender Kumar Verma  
Centre for Computational Biology and Bioinformatics  
School of Life Sciences  
Central University of Himachal Pradesh  
Kangra  
176206  
India

**11 October 2017**

Our ref: **NF171396**

Dear Dr Verma,

The Royal Society has now considered your application for a Newton International Fellowship entitled “*Genetic regulation of metal distribution in cereal crops*”, and we are delighted to inform you that your application has been successful. Securing a Newton International Fellowship is a major achievement; the scheme supports the development and training of postdoctoral researchers at an early stage in their career and provides you with a valuable opportunity to build long-lasting relationships with UK research institutions and networks.

In the following letter, we would like to set out the details of our offer. Please note that this award letter, together with the attached Conditions of Award as well as certain Policy and Position Statements, set out the terms and conditions of your Award. The offer of this Fellowship is conditional in all respects upon the acceptance of these terms and conditions of award by yourself and your host organisation. This offer is also on condition that we receive proof of the completion of your PhD (including successful viva) before the start of the fellowship. In case of any unforeseen changes to the original application, please contact the Royal Society (see below for contact details).

Your appointment should be referred to as a ‘**Newton International Fellow**’ and this title should be used at all times. The Newton International Fellowships is a partnership between three of the UK’s national academies, The Royal Society, The British Academy and the Academy of Medical Sciences.



President Sir Venki Ramakrishnan  
Executive Director Dr Julie Maxton

Founded in 1660, the Royal Society is the independent scientific academy of the UK, dedicated to promoting excellence in science.

Registered Charity No 207043



### Host organisation

The place of tenure for your fellowship is the John Innes Centre, under the supervision of Dr Janneke Balk.

The UK host is responsible for all programme arrangements within the UK for the visiting Fellow. Please note that the Royal Society cannot assist with issues of visas or work permits, which must be obtained with the assistance of your UK host organisation.

### Start date and duration of award

Your Fellowship will start on **1 January 2018** and is scheduled to end on **31 December 2019**. The duration of the Fellowship is **24** months.

### Value and purpose of award

You will receive the following through your UK host organisation:

	<b>Year 1</b> 1/1/2018 - 31/12/2018	<b>Year 2</b> 1/1/2019 - 31/12/2019	<b>Total</b>
Subsistence Allowance	£24000	£24000	£48000
Research expenses	£8000	£8000	£16000
Relocation Expenses	£2000	£0	£2000
<b>Total</b>	<b>£34000</b>	<b>£32000</b>	<b>£66000</b>

In addition, the host organisation will receive an allowance for overhead expenses, amounting to 50% of the annual value of the Newton International Fellowship (including relocation expenses). You are not considered to be an employee of the UK host organisation, or the Royal Society for the duration of the Fellowship. **It is expected however that your host organisation gives you the necessary departmental and institutional support to complete your Fellowship successfully, including adequate office and laboratory space and access to essential equipment, software and facilities.** Research staff should be appointed on terms that are no less favourable than those of comparable posts in the host organisation.

### Research expenses

You may use the research expenses funding as appropriate to support your research in line with your application, there are however a few exceptions. Research expenses may not be used to cover:

- publication costs;
- patent costs;
- any personal costs including that of dependents; and
- salary costs or other costs of administrative or research staff.

Please note that the costs of attending or organising conferences, workshops or seminars for the purposes of disseminating your research must be limited to £3,000 per year. We will consider requests to exceed this limit on a case by case basis.

### **Focus of the Newton International Fellowship Scheme**

As a Newton International Fellow, you are expected to devote your time to research and not hold any other research or teaching positions in the UK.

### **Travel Overseas**

You may undertake research visits abroad, during the tenure of your Fellowship, but these must not normally total more than one month per annum and must be essential to the research project. Prior approval must be obtained from the Royal Society for any research visits totalling more than one month. It is the responsibility of you and your UK host organisation to ensure that appropriate insurance is obtained for overseas travel and fieldwork.

### **Leave**

Under the terms of your fellowship you are entitled to take the full period of maternity, paternity, shared parental, adoptive or extended sick leave as defined in your UK host organisation's standard organisational policy. A fully funded extension will be added to account for any time lost within the original period of the fellowship. Please get in touch with your Royal Society contact (as below) to receive a copy of the full policy or to request a period of leave from your fellowship. Requests for such leave must be made by you and approved by the Royal Society in advance of the leave period commencing.

### **Alumni programme**

At the end of your fellowship, you will automatically become a member of the alumni programme. The aim of this programme is to provide ongoing networking opportunities in the UK. Newton International Fellows who have completed at least 18 months of their fellowship and who leave the UK at the end of their Fellowship may be eligible to apply for follow on funding, to support networking opportunities with research organisations in the UK. Further information will be provided at the end of your fellowship.

### **Engagement with the UK academies**

Both during your stay in the UK as a Newton International Fellow, and as a long term Alumnus once you have left the UK, we will invite you to participate in a number of activities and professional training opportunities. We consider these engagements to be of mutual benefit and hope you will take advantage of these opportunities. The development of long term contacts between national academies and Newton International Fellows is regarded as a cornerstone of this Fellowship.

You may wish to join the Newton International Fellows group on LinkedIn for updates on upcoming opportunities and to connect with the other Fellows: <https://www.linkedin.com/groups/6692277>

After your award has finished, we will contact you at regular intervals for further information on your career progression. It is expected that you will provide this information which will be crucial for sustaining and improving our international networking opportunities.

### **Reporting**

In February/March each year those Fellows who are six months or more into their fellowship will be required to complete an annual report with details about their research activity in the previous financial

year. Information from this annual report will update us of your individual progress and be used both to fulfil the Society's own reporting requirements and highlight the impact of Royal Society funding more broadly.

Within three months of the end of your fellowship you will be required to complete a final report, and your UK host organisation to submit a final financial income and expenditure statement.

### **Promotion**

During the period of your award, you are asked to identify clearly in all communications/publications the Royal Society as the funding source of your research fellowship. You are asked to describe your position as a **Newton International Fellow**.

### **Your support for your Newton Fellowship**

Your contact at the Royal Society is Jessica East / Maria Magdalena Razalan, [info@newtonfellowships.org](mailto:info@newtonfellowships.org). Please make sure that you, and especially your UK co-applicant and UK host organisation, include your fellowship reference code (see Our ref: at the top of this letter) on all the communications related to this award.

### **Acceptance and payment procedures**

Your award will be paid directly to the host organisation via BACs transfer. The payments will be made in arrears in quarterly instalments.

A copy of this letter will be sent to Dr Janneke Balk.

Finally, we would like to offer our congratulations, once again, on receiving a Newton International Fellowship.

Yours sincerely,



Natasha Bevan  
Head of International Grants

cc. Dr Janneke Balk

Encl. Conditions of Award