

पाठ्यक्रम समिति बैठक के कार्यवृत्त

कार्यसूची मद संख्या	ब्यौरा	अनुलग्नक	निर्णय
मद CBB-BOS-9/21-1	23.03.2021 को आयोजित हुई संगणकीय जीव विज्ञान एवं जैव सूचना केंद्र की आठवीं पाठ्य समिति (8th BOS) के कार्यवृत्त अनुमोदन हेतु प्रस्तुत है।	अनुलग्नक - I	स्वीकृत
मद CBB-BOS-9/21-2	राष्ट्रीय शिक्षा नीति (एनईपी-2020) के अनुसार M.Sc. Bioinformatics के लिए नए पाठ्यक्रमों में संशोधन के हेतु प्रस्ताव प्रस्तुत है।	अनुलग्नक - II	स्वीकृत*
मद CBB-BOS-9/21-3	पी-एच.डी. (CBB) कार्यक्रम के नामांकन में परिवर्तन का प्रस्ताव प्रस्तुत है।	अनुलग्नक - III	स्वीकृत
मद CBB-BOS-9/21-4	पी-एच.डी. (Bioinformatics) कार्यक्रम के पाठ्यक्रम कार्य के लिए नए पाठ्यक्रम आरम्भ करने की स्वीकृति हेतु प्रस्ताव प्रस्तुत है। 1. IKS - 02 क्रेडिट 2. Pedagogy of Teaching Learning Process - 02 क्रेडिट	अनुलग्नक - IV	स्वीकृत
मद CBB-BOS-9/21-5	विभिन्न एंटी-एग्जिट सिस्टम को अपनाने के हेतु प्रस्ताव प्रस्तुत है।	अनुलग्नक - V	स्वीकृत#
मद CBB-BOS-9/21-6	संगणकीय जीव विज्ञान एवं जैव सूचना केंद्र में प्रायोगिक (Practical) एवं मौखिक (Viva-Voce) परीक्षा हेतु बाह्य परीक्षकों की सूची के अनुमोदन हेतु प्रस्ताव प्रस्तुत है।	अनुलग्नक - VI	स्वीकृत
मद CBB-BOS-9/21-7	संगणकीय जीव विज्ञान एवं जैव सूचना केंद्र में पी-एच.डी. शोधार्थियों के लिए पर्यवेक्षक आबंटन का प्रस्ताव प्रस्तुत है।	अनुलग्नक - VII	स्वीकृत
मद CBB-BOS-9/21-8	कोई अन्य मामले जो कि अध्यक्ष की अनुमति से विचार- विमर्श किए जाएंगे।		

\*व्यावसायिक पाठ्यक्रमों की सूची को भविष्य में संकाय विशेषज्ञता और उपलब्धता के अनुसार संशोधित किया जाएगा।

#यह सीयूएचपी एनईपी कार्यान्वयन समिति की सिफारिश है। प्रवेश/निकास के तौर-तरीके यूजीसी/सीयूएचपी दिशानिर्देशों के अनुसार विश्वविद्यालय के अधिकारियों द्वारा तय किए जाएंगे।

*Approved online*

डॉ. बृजमोहन शर्मा  
सेवानिवृत्त प्रोफेसर  
चौधरी सरवन कुमार कृषि  
विश्वविद्यालय हिमाचल प्रदेश  
पालमपुर

*Approved online*

प्रोफेसर देशदीपक सिंह  
जैव प्रौद्योगिकी विभाग  
पंजाब विश्वविद्यालय

*23/3/21*

डॉ. शैलेन्द्र कुमार वर्मा  
सहायक प्रोफेसर  
संगणकीय जीव विज्ञान एवं जैव सूचना केंद्र

*21/9/21*

डॉ. सुनील कुमार  
जन्तु विज्ञान विभाग  
हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

*21/9/21*

प्रोफेसर दीपक कुमार  
पाठ्य विज्ञान विभाग  
डीन स्कूल जीव विज्ञान

*21/9/21*

डॉ. महेश कुल्हारिया  
अध्यक्ष, पाठ्यक्रम समिति  
संगणकीय जीव विज्ञान एवं जैव सूचना केंद्र

**Forwarded: Minutes**

2 messages

**Mahesh Kulharia** <kulharia@hpcu.ac.in>  
To: Suresh Kumari <sureshkumari731@gmail.com>

Mon, Sep 27, 2021 at 1:42 PM

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

From: **Brij Sharma** <drbrijsharma@gmail.com>  
Date: Mon, 27 Sep 2021, 12:00  
Subject: Re: Minutes  
To: Mahesh Kulharia <kulharia@hpcu.ac.in>  
Cc: Prof. Desh Deepak Singh <ddsingh@pu.ac.in>, <ddsingh2@yahoo.com>

Approved

On Mon, Sep 27, 2021, 11:47 Mahesh Kulharia <kulharia@hpcu.ac.in> wrote:

Dear Sir,  
I am grateful to your suggestions, comments and input during the meeting of 9th Board of studies. I have incorporated these in the minutes and files attached herewith.  
We have our Life Sciences School Board meeting scheduled today at 2:00 pm so I request you to kindly sign the minutes (first file) and send a scanned copy so that the same can be placed in School Board.

Looking forward to hearing from you.

yours truly,  
Mahesh

**Mahesh Kulharia** <kulharia@hpcu.ac.in>  
To: Suresh Kumari <sureshkumari731@gmail.com>

Mon, Sep 27, 2021 at 1:42 PM

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

From: **Desh Deepak Singh** <ddsingh2@yahoo.com>  
Date: Mon, 27 Sep 2021, 12:05  
Subject: Re: Minutes  
To: <drbrijsharma@gmail.com>, Mahesh Kulharia <kulharia@hpcu.ac.in>  
Cc: Prof. Desh Deepak Singh <ddsingh@pu.ac.in>

Approved  
Dr dd singh

Sent from Yahoo Mail on Android  
[Quoted text hidden]



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय  
Central University of Himachal Pradesh  
(Established under Central Universities Act 2009)  
अस्थायी 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/1-5(Vol.II)/CUHP/12/173

Dated: 23.03.21

Centre for Computational Biology and Bioinformatics  
School of Life Sciences

Minutes of the 8th Board of Studies meeting held on 23rd March, 2021

The meeting of the 8<sup>th</sup> Board of Studies of the Centre for Computational Biology and Bioinformatics, School of Life Sciences was held on 23<sup>rd</sup> March, 2021 by circulation (Through Online Mode).

Following Decision were taken in BOS meeting as per the Agenda.

Agenda Item-No: CBB-BOS-8/21-1: Minutes of the 7<sup>th</sup> BoS Meeting held on 29th Dec 2020. (Annexure I)

Decision:

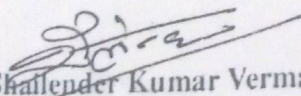
All members agreed and approved the Minutes of the 7<sup>th</sup> BoS Meeting held on 29th Dec 2020 (Annexure I).

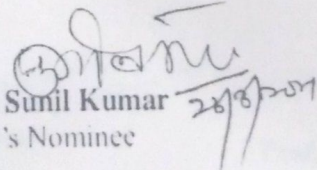
Agenda Item-No: CBB-BOS-8/21-2: Change of the title of the PhD thesis of Smt. Neha. CUHP13RDCBB03 report attached (Annexure II)

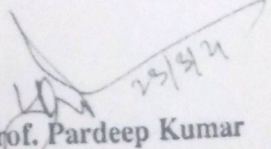
Decision:

All members agreed and approved the change of the title of the PhD thesis of Smt. Neha. CUHP13RDCBB03 report attached (Annexure II)

The meeting ended with a vote of thanks by the chair.

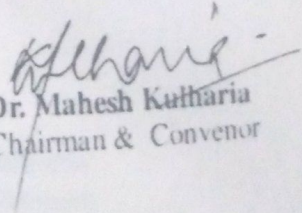
  
Dr. Shalender Kumar Verma  
Member

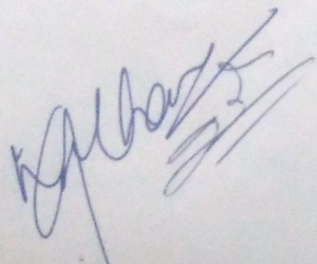
  
Dr. Sunil Kumar  
VC's Nominee

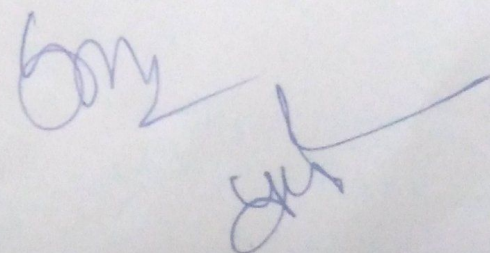
  
Prof. Pardeep Kumar  
VC's Nominee

Prof. BrijMohan  
Subject Expert

Dr. Deshdeepak Singh  
Subject Expert

  
Dr. Mahesh Kutharia  
Chairman & Convener







हिमाचल प्रदेश केंद्रीय विश्वविद्यालय  
Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

अस्थाई शैक्षणिक खण्ड, शाहपूर, जिला कांगड़ा, हिमाचल प्रदेश - 176206  
Temporary Academic Block, Shahpur, Distt. Kangra (HP) - 176206  
Website: www.cuhimachal.ac.in

File No: LS/1-5(Vol.II)/CUHP/12/

Dated:

Centre for Computational Biology and Bioinformatics

School of Life Sciences

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**Decision:**

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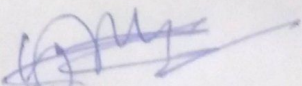
**Agenda Item-No.** CBB-BOS-8/21-2: Change of the title of the PhD thesis of Smt. Neha, CUHP13RDCBB03 report attached (Annexure II)

**Decision:**

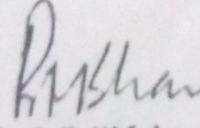
All members agreed and approved the change of the title of the PhD thesis of Smt. Neha, CUHP13RDCBB03 report attached (Annexure II)

The meeting ended with a vote of thanks by the chair.

Dr. Shailender Kumar Verma  
Member

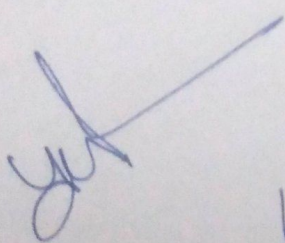
  
Dr. Sunil Kumar  
VC's Nominee

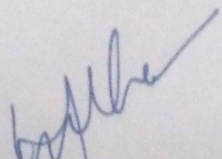
Prof. Pardeep Kumar  
VC's Nominee

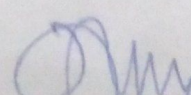
  
Prof. Brij Mohan  
Subject Expert

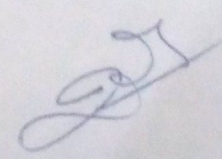
Dr. Deshdeepak Singh  
Subject Expert

Dr. Mahesh Kulharia  
Chairman & Convener









File No: LS/1-5(Vol.II)/CU HP/12/

Dated:

Centre for Computational Biology and Bioinformatics  
School of Life Sciences

Minutes of the 8th Board of Studies meeting held on 23rd March, 2021

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Decision:

All members agreed and approved the Minutes of the 7<sup>th</sup> BoS Meeting held on 29th Dec 2020. (Annexure I).

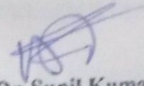
Agenda Item-No: CBB-BOS-8/21-2: Change of the title of the PhD thesis of Smt. Neha, CUHP13RDCBB03 report attached (Annexure II)

Decision:

All members agreed and approved the change of the title of the PhD thesis of Smt. Neha, CUHP13RDCBB03 report attached (Annexure II)

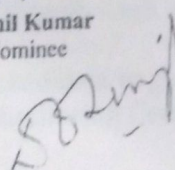
The meeting ended with a vote of thanks by the chair.

Dr. Shailender Kumar Verma  
Member

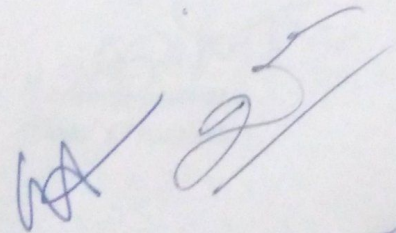
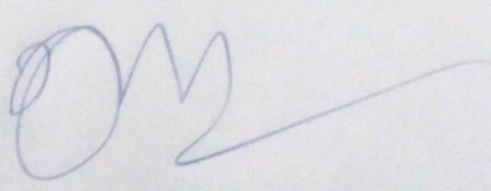
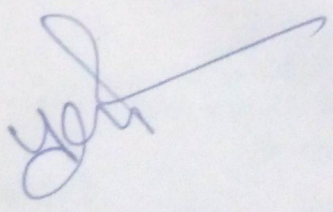
  
Dr. Sunil Kumar  
VC's Nominee

Prof. Pardeep Kumar  
VC's Nominee

Prof. BrijMohan  
Subject Expert

  
Dr. Deshdeepak Singh  
Subject Expert

Dr. Mahesh Kulharia  
Chairman & Convenor

# Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)

PO Box: 21, Dharamshala, Himachal Pradesh-176215

## Research Progress Monitoring Committee

Date: 14/10/2020

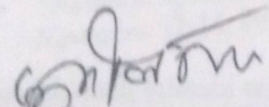
1. Name of the Candidate: Neha
2. Registration No.: CUHP13RDCBB03
3. Date of Joining: 06/01/2014
4. Place of work: School of Life Sciences,  
Central University of Himachal Pradesh
5. Members of the Research Progress Monitoring Committee:
  1. Dr. Mahesh Kulharia (Director)
  2. Dr. P. Aparoy (Supervisor)
  3. Dr. Sunil Kumar (Dean's Nominee)
6. Dates of previous Research Progress Monitoring Committee: 27/06/2018

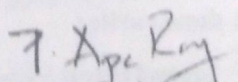
The following to be filled by the members of the Committee

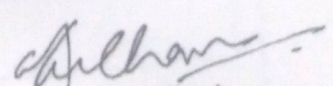
### Member

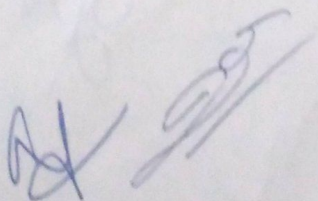
- a) Has the candidate presented her/his work well? Yes
- b) Has the candidate put in enough work in the given period? Yes
- c) Do you recommend the candidate to go through the pre-Ph.D. viva ( for candidates in their last Research Progress Monitoring Committee): Yes
- d) Comments of the Research Progress Monitoring Committee members on the progress of research work during the period under the report.

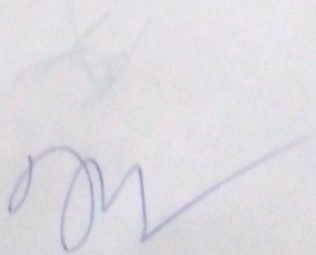
*The work progressed well and the candidate can give Pre-Ph.D. presentation. The title of the work can be changed as proposed by the student.*

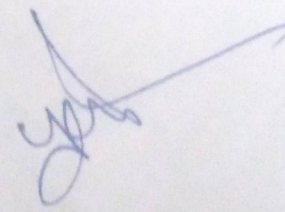
  
Dr. Sunil Kumar  
(Dean's Nominee)

  
Dr. P. Aparoy  
(Supervisor)  
(D. POLAMARASETTY APARAY)

  
Dr. Mahesh Kulharia  
(Director)









# Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)  
PO Box: 21, Dharamshala, Himachal Pradesh-176215



## Research Progress Committee Report- IV

1. Name of the candidate:	Neha
2. Enrolment/Registration number:	CUHP13RDCBB03
3. School:	School of Life Sciences
4. Department/Centre:	Centre for Computational Biology and Bioinformatics
5. Name of the Supervisor:	Dr. Polamarasetty Aparoy
6. Title of Thesis:	<b>Proposed Title:</b> <b>Hints for COX-2 inhibitor design: Molecular dynamics based SAR characterization and ligand based analysis.</b>  <b>Previous Title:</b> Application of Molecular dynamics based free energy calculation methods for identification of novel COX-2 inhibitors
7. Research activities: a) Work done so far	<b>Work done since 2018</b> <ul style="list-style-type: none"><li>• Identification of novel drug like candidates against COX-2.</li><li>• Structure and ligand based virtual screening using a pool of small molecule databases containing compounds of natural products, primary and secondary metabolites and FDA approved database.</li><li>• A cluster of amino acids i.e., Gln178, Ser339, Tyr341, Arg499, Phe504, Val509 and Ala513 were found consistent in making interactions with different inhibitors.</li><li>• MD based studies to characterize the SAR of different classes of COX-2 inhibitors.</li><li>• Structural insights into the dual inhibition of COX-2/5-LOX.</li></ul> <b>Work done earlier</b> <ul style="list-style-type: none"><li>• Ligand based Virtual Screening to identify potential dual</li></ul>

*[Handwritten signatures and initials]*



# Central University of Himachal Pradesh

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PO Box: 21, Dharamshala, Himachal Pradesh-176215

b) Future plan	<p>inhibitors of COX-2 /5-LOX.</p> <ul style="list-style-type: none"><li>• Ligand based pharmacophore modelling using CLOXIBs</li><li>• Molecular descriptor profiling against COX-2 inhibitors</li><li>• MD based studies to characterize the SAR of diaryl heterocyclic COX-2 inhibitors</li><li>• Role of Ser516 in interactions with heterocyclic ring of COXIBs was shown.</li><li>• Calculation of energetic contribution of identified amino acids</li><li>• Molecular dynamics simulation based free energy calculations for COX-2 inhibitors.</li><li>• Interaction based analysis of COX-2 inhibitors.</li><li>• Docking studies of COX-2 inhibitors using AutoDock.</li><li>• Docking of mPGES-1 inhibitors using AutoDock Vina, Dock and AutoDock.</li><li>• Review of Literature.</li></ul>
	<ul style="list-style-type: none"><li>• Pre-PhD presentation</li><li>• Thesis submission</li><li>• Manuscript preparation</li></ul>

8. Conferences/Seminars/workshops attended and the posters, talks presented:

- Poster presentation at "Accelerating Biology 2016: Decoding the deluge" held during January 19-21, 2016 organized by Bioinformatics Group, C-DAC Pune.
- "International workshop on Cancer Drug Discovery and Development" held during June 22-28, 2016 at University of Hyderabad, Hyderabad.
- "National Symposium on Bioinformatics & Computational Systems Biology" held during November 12-14, 2016 at Central University of Himachal Pradesh, Himachal Pradesh.

*[Handwritten signatures and marks]*





9. Research work published in conference proceedings/ peer-reviewed journal:

- [1] Gupta A, Chaudhary N, Kakularam KR, Pallu R, Polamarasetty A. The Augmenting Effects of Desolvation and Conformational Energy Terms on the Predictions of Docking Programs against mPGES-PLoS One. 2015;10 (8):e0134472. doi: 10.1371/journal.pone.0134472.
- [2] Chaudhary N, Aparoy P. Deciphering the mechanism behind the varied binding activities of COXIBs through Molecular Dynamic Simulations, MM-PBSA binding energy calculations and per residue energy decomposition studies. J Biomol Struct Dyn. 2016 Mar 16:1-27.
- [3] Gupta A, Chaudhary N, Aparoy P. 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 synthase-1 (mPGES-1) active site. Int J Biol Macromol. 2018 Nov;119:352-359.
- [4] Chaudhary N, Aparoy P. Application of per-residue energy decomposition to identify the set of amino acids critical for in silico prediction of COX-2 inhibitory activity. Heliyon. 2020 Oct; 6 (10): e04944
- [5] Chaudhary N, Gupta A, Aparoy P. Molecular descriptor based profiling of COX-2 inhibitors to identify features directing COX-2 inhibition. (Under preparation)
- [6] Chaudhary N, Choudhary A, Aparoy P. Development of a ligand-based pharmacophore model using PHASE and database searching: An approach for dual inhibition against COX-2 and 5-LOX. (Under preparation)

To be filled in by the candidate

- 1. Have you submitted your work report? Yes
- 2. Are there any specific problems ?
  - i. Thesis title change
  - ii. Allotment of Administrative supervisor
- 3. Would you like to suggest / modify any objectives: None

Date: 31 - Oct - 2020

F. Aparoy  
Signature of the Supervisor  
(Dr. POLAMARASETTY APAROY)

*Neela*  
Signature of the Candidate

*Alhami*  
Signature of Director of the Centre

*DM*  
*Yes*  
*NO*  
*22*