

Name:

**Publications:** 

Dr Ashun Chaudhary Designation: Assistant Professor Contact Details: 09805840053 Academic Qualification: Ph.D Positions Held: **Assistant Professor** Specialisation: Natural plant Chemistry and toxicological evaluations Research Interest: Metabolic fingerprinting of medicinal plants, Anti-inflammation Anticancer. and Antioxidant

- Chaudhary, 1. Ashun Geetanjali Rampal, Upendra Sharma, Tarunpreet Singh Thind, Bikram Singh, Adarsh Pal Vig and Saroj Arora. Anticancer, antioxidant activities and GC-MS analysis of glucosinolates in two cultivars of broccoli. Medicinal Chemistry & Drug Discovery 2012, 2(2) 30-37.
- 2. Ashun Chaudhary\*, Upendra Sharma, Bikram Singh, Adarsh Pal Vig and Saroj Arora. Free radical scavenging,

antiproliferative activities, and profiling of variations in the level of phytochemicals in different parts of Broccoli (Brassica oleracea italica). Food Chemistry (2014) 148, 373–380.

http://dx.doi.org/10.1016/j.f oodchem.2013.10.042. (IF-5.399)

- 3. Vishal Sharma, Ashun Chaudhary, Saroj Arora, Ajit K. Saxena, Mohan Paul S. Ishar. b-Ionone derived chalcones as potent antiproliferative agents. European Journal of Medicinal Chemistry (2013) 69, 310-315.
  - <u>http://dx.doi.org/10.1016/j.ejmec</u> <u>h.2013.08.017</u>. **(IF-4.833)**
- 4. Nitesh Kumar, Raj Kaushal, Ashun Chaudhary, Saroj Awasthi. Arora, Pamita Studies synthesis, on structural elucidation and antiproliferative activities of titanium complexes. Medicinal chemistry research (2014),23(8), 3897-3906 DOI 10.1007/s00044-014-0963-7 (IF- 1.72)
- 5. Raj Kaushal, Nitesh Kumar,
  Ashun Chaudhary, Saroj
  Arora, Pamita Awasthi,
  Synthesis, spectroscopic
  and antiproliferative studies
  of titanium complexes.
  Bioinorganic chemistry

and

6. Jasmit Kaur, Ashun Chaudhary, Rajbir Kaur and Saroj Arora. Assessment of cytotoxic, genotoxic, and mutagenic potential of water samples Harike Wetland-Ramsar Site in India using different ex vivo biological

- systems. Ecotoxicology (2014) 23, 967-977. http://link.springer.com/arti cle/10.1007/s10646-014-1240-8(2014). (IF 2.46)
- 7. Alisha Sood, Vishal Sharma, **Ashun Chaudhry**, Rakesh Saroi Kumar, Arora, Rajnikant, Vivek gupta and Mohan Paul S. Ishar. Synthesis and evaluation of 3salicyloylpyridine derivatives cytotoxic as mitochondrial apoptosis Bioorganic and inducers. medicinal chemistry letters (2014) 24. 4724-4728. http://dx.doi.org/10.1016/j.b *mcl.2014.08.010*. 2.448)
- Ashun 8. Vishal Sharma, **Chaudhary**, Rohit Arora, Saroj Arora, Ajit k. Saxena and Mohan Paul S. Ishar. B-Ionone derived apoptosis endoperoxides; inducing Discovery of potent leads anticancer for agents. Journal European Medicinal Chemistry (2014) 87. 228-236. http://dx.doi.org/10.1016/j.e jmech.2014.09.049. 4.833)
- 9. Vishal Sharma, Ashun Chaudhary, Gousia Chashoo, Saroj Arora, Ajit k. Saxena and Mohan Paul S. Ishar\*. Induction of apoptosis by cyclobutanones and derived polycyclic y-lactones: preliminary analysis antiproliferative activity. Medicinal Chemistry Communications (2015)6, 1626-1634. DOI: 10.1039/C5MD00289C (IF-2.394).

10. Ashun Chaudhary\*,

- Sonika Choudhary, Adarsh Pal Vig, and Saroj Arora (2016). Antioxidant and antiproliferative effect of phytochemical cocktail of broccoli. Trends In Biosciences, 9(4) 241-249.(NAAS Rating -2.7)
- 11. Ashun Chaudhary\*, Sonika Choudhary, Upendra Sharm, Adarsh Pal Vig, and Saroj Arora\* (2016). In vitro evaluation of Brassica sprouts for its antioxidant and antiproliferative potential. Indian Journal of Pharmaceutical Sciences 601-78(5), *610.* (IF-0.634)
- 12. **Ashun Chaudhary\*,**Sonika Choudhary, Upendra
  Sharma, Bikram Singh,
  Adarsh Pal Vig and Saroj
  Arora\* (2018). Purple Head
  Broccoli (Brassica oleracea
  L. var. italica Plenck), A
  functional food crop for
  antioxidant and anticancer
  potential". Journal of Food
  Science and Technology 55
  (5), 1806–1815. **(IF- 1.85).**
- 13. Nitesh Kumar, Raj Kaushal, **Ashun Chaudhary**, Saroi Pamita Arora, Awasthi (2019).Titanium based mixed ligand complexes: Synthesis, characterization and in vitro antiproliferative studies. Inorganic and Nano-Metal Chemistry 48(9)467-476. (IF-0.685).
- 14. Suresh Kumar, Vishali Gupta, Basheerulla Shaik, Vijay K Agrawal, Viveksheel Jaswal and **Ashun Chaudhary** (2019). Phosphodiesterase 4 (PDE4) inhibition of 4,5,6,7-tetrahydro-1H 1, 28 2 -

- diaxepin 7- one derivatives using physicochemical parameters. Current Trends in Biotechnology and Chemical Research 8 (1&2) 28-36.
- 15. Vaishali Aggarwal, Dharambir Kashyap, Vivek Kumar Garg, Katrin Sak, Jain, Aklank Ashun Chaudhary, Hardeep Singh Tuli\*, Gautam Sethi\*(2019). Molecular mechanisms of action of tocotrienol cancer: Recent trends and advancements. International Journal of Molecular Sciences, 2019, 20, 656 (IF- 4.183).
- 16. Dharambir Kashyap, Hardeep Singh Tuli\*, Katrin Sak, Vivek Kumar Garg, Neelam Goel, Sandeep Punia, **Ashun Chaudhary** (2019). Role of reactive oxygen species in cancer progression. Current Pharmacology Reports, 5, (2),79-86 **CiteScore** (Scopus): 2.95.
- 17. Rohit Sharma\*, Natália Martins\*, Kamil Kuca, Ashun Chaudhary, Atul Kabra. Meda М. Rao, Pradeep Kumar Prajapati (2019). Chyawanprash: An Indian Traditional Bioactive Health Supplement. Biomolecules, 9, (5), 161; doi:10.3390/biom9050161 (IF- 4.694).
- 18. **Ashun Chaudhary**, Vivek Sheel, Sonika Choudhary, Sonika, Ajay Sharma, Vikas Beniwal, Hardeep Singh Tuli\* (2019). Ferulic Acid: A Promising Therapeutic phytochemical and recent patents advances. Recent

- Patents on Inflammation & Allergy Drug Discovery, DOI10.2174/1872213X1366619
  0621125048, 13, (2), 000000. CiteScore (Scopus):
  1.00.
- 19. Jasmit Kaur, Ashun Chaudhary, Namita Khanna, Saroj Arora and Adarsh Pal Vig (2013). Battery of bioassay as tool water quality monitoring. In Water for Health: Healthy water, Healthy Life (Editors: S.S. Gill, R. Manhas, and P. Bansal). Gulab Publisher, Sangrur and Basera Verlag, Germany ISBN 978-81-92064-0-5.
- 20. Ashun Chaudhary, Praveen Kumar, Vivek Sheel and Abhinay Thakur (2019). Book Chapter: "Analytical techniques for the identification and quantification of Flavonoids " in book "Current **Aspects** of Flavonoids: Their Role in Cancer Treatment" (Editors: Hardeep Singh Tuli) Springer Nature ISBN 978-981-13-5873-9, pp-9-22.
- 21. Abhinay Thakur, **Ashun** Chaudhary, Hardeep Singh Tuli and Anil Sharma (2019).Book Chapter: "Recent trends flavonoids studies in term of toxicity" in forthcoming book "Current Aspects of Flavonoids: Their Role in Cancer Treatment" (Editors: Hardeep Singh Tuli) Springer Nature ISBN 978-981-13-5873-9, pp-139-148.

22. Vivek Sheel Jaswal, Ashun Chaudhary, Pankaj Thakur, Diksha Sharma. Avanish Kumar Arora. Radhika Khanna, Hardeep Singh Tuli\*. ZnO nanoparticle with anti-microbial promising antiproliferation and synergistic properties. CAC Vol 87: Analysis, Fate and of **Engineered** Toxicity **Nanomaterials** in Plants, Sandeep Singh (Editors: Verma) Chapter 9. Elsevier Hardcover ISBN:978012821 Comprehensive 3209. Analytical Chemistry, Volume 87 # 2019 Elsevier B.V. ISSN 0166-526X. https://doi.org/10.1016/bs.coa

https://doi.org/10.1016/bs.coa c.2019.09.006

Research Projects Completed/Ongoing:

Biological and Chemical Investigation of Nutritive *Pyrus Pashia* Wildly Grown in Western Himalayas by SERB for NPDF

M.Phil. Supervised:

Ph.D. Supervised:

Ph.D. Supervising:Respected Sir,

Kindly find the attachment and reply as soon as possible.

Participation in Seminars/Conferences:

1. Raj Kaushal, Nitesh Kumar\*, **Ashun Chaudhary**, Saroi Arora, Pamita Awasthi (2013) Synthesis, Structural Elucidation and in vitro Antiproliferative Activities of Mixed Ligand Titanium "International Complexes Conference on Interdisciplinary areas with Chemical Sciences"

## (Abstract+Oral).

- Organized by Panjab University (India), held on 30 October-1st November.
- 2. Ashun Chaudhary\*, Jasmit Kaur, Adarsh Pal Vig, and Saroi (2014).Arora "Antioxidant and Antiproliferative effect of Phytochemical cocktail of Brassica oleracea Italica" (Abstract+Oral). 17th Punjab Science Congress 14-16, February held at Punjab Technical University, lalandhar.
- 3. Shallina Gupta\*, Saroi Arora, **Ashun Chaudhary** and Satwinder K. Sohal (2014). A feeding deterrent effect of ethyl acetate extract of a cultivar of Broccoli (Brassica oleracea var. italica) Spodoptera litura (Fab.) (Abstract+Poster). 4th Science International Congress on 8-9, December in Pacific University Udaipur (Rajasthan).
- 4. Ashun Chaudharv\*, Geetanjali Rampal, Adarsh Pal Vig and Saroj Arora (2012) "Chemical analysis of volatile compounds of the Broccoli at different developmental stages by Gas Chromatography-Mass Spectroscopy and Cytotoxicity studies" (Abstract+Poster). 15th Punjab Science Congress on 7-9, February held in Guru Nanak Dev University.
- 5. **Ashun Chaudhary\***, Adarsh Pal Vig and Saroj Arora (2012). "Diminution of free radicals and cancer cell proliferation of Brassica

oleracea Italica" (Abstract+Poster).

International symposium on translational neurosciences, unraveling mysteries of brain in health and disease, on 27-30, October Held at Department of Biotechnology, GNDU, Amritsar.

- 6. Ashun Chaudhary\*, Geetanjali Rampal, Adarsh Pal Vig and Saroj Arora "Antimicrobial (2010)potential of glucosinolates rich extract of leaves and of Broccoli" florets (Abstract+Poster). "xxxv annual conference environmental mutagen of India society and international symposium on mutagens and genetic diversity for health and agriculture" Puniab University, Chandigarh 12-14 march.
- 7. Ashun Chaudhary\*, Upendra Sharma, Vishal Sharma, Adarsh Pal Vig, Bikram Singh and Saroj Arora (2016). Biological and Chemical Investigation of Brassica oleracea Var. italica Plenck (Broccoli) at Different Developmental Stages (Abstract+Oral). February 17-19. 2016 (ICEMCH-2016) at Guru Nanak Dev University, Amritsar. Punjab, India
- 8. Ashun Chaudhary\*,
  Adarsh Pal Vig and Saroj
  Arora (2017). Hydrolytic
  products analysis of
  glucosinolates from broccoli
  associated with the
  anticancer and antioxidant

## activity

## (Abstract+Poster).

February 9-10, 2017 National seminar on "Recent Trends in Plant and Environmental sciences" at Guru Nanak Dev University, Amritsar, Punjab, India.

- 9. Ashun Chaudhary\*, Adarsh Pal Vig and Saroj Arora (2018). Cytotoxic and anti- inflammatory effects of Brassica oleracea L. var. italica Plenck extracts and their chemical composition
  - (Abstract+Poster). March 29-30, 2018 "National Seminar on Emerging Trends in Plant and Environmental Sciences" at Guru Nanak Dev University, Amritsar, Punjab, India.
- 10. Ashun Chaudhary\* (2018).Secondary metabolites rich plant as functional food (Invited Lecture). March 8-9, 2018 "Him Science Congress Association" N/T. at Hamirpur, Himachal Pradesh, India.
- 11. Participated in international Symposium on "Molecular Aspects of Brain Aging and neurological Disorders" on 28-29th November 2008 Held at Department of Biotechnology, GNDU, Amritsar.
- 12. Participated UGC sponsored a National seminar on "Environmental Analysis and Remediation" on 21-22, March 2011 held at Department of Botanical and Env. Sciences. GNDU, Amritsar.
- 13. Participated UGC-SAP

sponsored National а seminar on "Environmental Management" on 22-23, March 2012 held Botanical Department of and Env. Sciences. GNDU, Amritsar.

14. Participated **UGC-SAP** National sponsored а seminar on "Environmental Conservation" 28, on March 2013 held at of Department Botanical and Env. Sciences. GNDU, Amritsar.

15. Participated UGC-CPEPA sponsored National а "Recent seminar on Advances in Cancer Research" on 29, March 2013 held at Department of Botanical and Sciences. GNDU, Amritsar.

16. Participated in a seminar on "International **Biodiversity** Day Celebrations-2012" on 22, March 2012 held at Department of Botanical and Env. Sciences. GNDU, Amritsar.

Membership of Learned Societies/ Professional

Life Membership (HSCA-LM-312) from Him Science Congress Association (HSCA) Himachal Pradesh (Reg. No.566/2012) dt. 28.04.2012, H.P. Societies 2006 Registration Act regd. Office: Shoolini University, Post Box No-9, Solan (H.P)-173212. National Post-Doctoral Fellow by

Science and Engineering Research

Board (SERB)

Awards & Honours Received:

**Bodies:** 

Others: