



## **BIODATA**

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- Member of Unfair means committee M. D. University Rohtak.
- Life Member of AMI.

### **List of Publication:**

1. Maria Carmen Catapano, Jana Karličková, Václav Tvrký, Sweta Sharma, Ashok K. Prasad, Luciano Saso, **Anil K. Chhillar**, Jiří Kuneš, Milan Pour, Virinder S. Parmar and Přemysl Mladěnka (2018). Mono and dihydroxy coumarin derivatives: Copper chelation and reduction ability. *Journal of trace elements in medicine Biology*.46: 88-95.
2. Renu Chaudhary, Meenakshi Balhara, Deepak Jangir, Mrridula Dangi , Mehak Dangi , Savita Khatri , Anil K. Chhillar (2018). The *Sesamum indicum* rhizosphere associated bacterium: A source of Antifungal compound. *Current Topics in Medicinal Chemistry* ( In press).
3. N.Yadav, **A.K.Chhillar** and A.K., Pundir, C.S.(2018) Preparation, characterization and application of haemoglobin nanoparticles for detection of acrylamide in processed foods. *International Journal of Biological Macromolecules*.107: 1000-1013.
4. Mehak Dangi, Bharat Singh, Sandeep Kumar Dhanda, Renu Chaudhary, Anil K. Chhillar(2017). Comprehensive Analysis and Annotation of Available Fungal Allergens for the Presence of T-cell and B-cell epitopes and Development of the SVM Based Classifiers for *in silico* Prediction of Novel Allergen sequences.*Anti Infective agents*. 15 (2).87-94
5. Shashwat Malhotra, Seema Singh, Neha Rana, Shilpi Tomar, Priyanka Bhatnagar, Mohit Gupta, Suraj K Singh, Brajendra K Singh, **Anil K Chhillar**, Ashok K Prasad, Christophe Len, Pradeep Kumar, Kailash C Gupta, Anjani J Varma, Ramesh C Kuhad, Gainda L Sharma, Virinder S Parmar, Nigel GJ Richards (2017) Chemoenzymatic synthesis, nanotization and anti aspergillus activity of optically enriched fluconazoles analogues. *Anti microbial agents and chemotherapy*( In press)
6. Mehak Dangi, Bharat Singh, Sandeep Kumar Dhanda and **A.K Chhillar** (2017).Comprehensive analysis and annotation of available fungal allergens for the presence of T-Cell and B-Cell epitopes and development of SVM based classifiers for *in silico* prediction of novel allergen sequences. *Anti Infective agents* (In press)
7. S Khatri, N Phougat, M Dangi **A K Chhillar** (2017) Antibacterial,antioxidant, chemical constituents, and cytotoxicity evaluation of *Terminalia arjuna* (Rox.ex DC.) wight and arn. *Asian journal of pharmaceutical and clinical research* **10(3)**: 412-417.

8. M Balhara, R Chaudhary, S Ruhil, B Singh, N Dahiya, VS Parmar, PK Jaiwal and **A.K.Chhillar** (2016) Siderophores ; iron scavengers: the novel and promising targets for pathogen specific antifungal therapy. *Expert opinion on therapeutic targets*. **20(12)**: 1477-1489.
9. Savita Khatri, Manish Kumar, Neetu Phougat, Renu Chaudhary, **A K Chhillar**. (2016) Perspectives on phytochemical as antibacterial: An outstanding contribution to modern therapeutics. *Mini Reviews for Medicinal Chemistry* **16**: 290-308.
10. Mehak Dangi, Bharat Singh and **A.K Chhillar** (2016) Reverse Vaccinology: An epitope based approach to design vaccines. *Current Bioinformatics*. **11(5)**: 537-550.
11. Mehak Dangi, Bharat Singh and **A.K Chhillar** (2016) Reverse Vaccinology to computationally screen antigenic epitopes as potential vaccine candidates from *Clostridium botulinum* strain Hall A. *Current Bioinformatics*, **12(4)**:349-360.
12. N Phougat, **A K Chhillar**, A K Prasad, N N Senapati, S Khatri, M Kumar, S Srivastava and R Dabur (2016) Comuarin derivatives as adjuvants: from in silico physiochemical characterization to in vitro evaluation against gram positive bacteria. *Combinatorial Chemistry & High Throughput Screening*. **19, 6**: 489-496.
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15. S Khatri, N Phougat, R Chaudhary, B Singh **A K Chhillar** (2016) Chemical composition, antioxidant, antibacterial and cytotoxicity of *Blumera lacera* (Burm.f.) DC. *International Journal of Pharmacy and Pharmaceautical sciences* **8,8**: 313-319.
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17. M Balhara, S Ruhil, S Dhankhar, **AK Chhillar** (2015). Studies on antifungal potential, primary characterization and mode of action of a de novo cytoplasmic protein (EAF) from human commensal *Escherichia coli* against *Aspergillus* spp. *Protein Pept Lett*. **22**: 1013-1024.
18. Ulrike Binder, Mojca Benčina, Adam Fizil, Gyula Batta, **Anil K Chhillar**, Florentine Marx. (2015) Protein kinase A signaling and calcium ions are major

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23. Savita Khatri and **Anil Kumar Chhillar** (2015). Evaluation of *in vitro* free radical scavenging activity of *Tribulus terrestris*. International Journal of basic and applied Biology. **2,6**: 444-448.
24. Rakesh Kumar, Jyoti Arora, Sonam Ruhil, Neetu Phougat, **Anil K Chhillar** and Ashok K Prasad. (2014) Synthesis and antimicrobial studies of pyrimidine-pyrazole heterocycles. Advances in chemistry. Article ID-329681.
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41. Manish Kumar, D. P. Bhadoria, Koushik Dutta, Mitesh Kumar F, Bharat Singh, Seema Singh, **Anil K Chhillar**, D. Behera and G. L. Sharma (2012). The  $\alpha$ -1AT and TIMP-1 gene polymorphism in development of asthma. Comparative and Functional Genomics. doi:10.1155/2012/968267.
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51. Gyula Batta, Tere' z Barna, Zolta'n Ga'spa' ri, Szabolcs Sa' ndor, Katalin E. Ko' ve' r, Ulrike Binder, Bettina Sarg, Lydia Kaiserer, **Anil K. Chhillar**, Andrea Eigentler, E' va Leiter, Nikoletta Hegedu' s, Istva'n Po' csi, Herbert Lindner and Florentine Marx (2009) Functional aspects of the solution structure and dynamics of PAF – a highly-stable antifungal protein from *Penicillium chrysogenum* FEBS Journal **276** (10) 2875-2890.
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53. Ashok K. Prasad, Pankaj Kumar, Ashish Dhawan, **Anil K. Chhillar**, Deepti Sharma, Vibha Yadav, Manish Kumar, Hirday N. Jha, Carl E. Olsen, Gainda L. Sharma, Virinder S. Parmar (2008) Synthesis and antimicrobial activity of Novel 3-Arylamino-1-chloropropan-2-ols. Bioorganic Medicinal Chemistry Letters. **18** (6): 2156-2161.
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57. Rakesh Kumar Tiwari, Akhilesh K. Verma, **Anil K. Chhillar**, Devender Singh, Jaspal Singh, V.Kasi Sankar, Vibha Yadav, G. L. Sharma and Ramesh Chandra (2006) Synthesis and antifungal activity of substituted -10-methyl-1,2,3,4-

tetrahydropyrazino [1,2-*a*] indoles. *Bioorganic Medicinal Chemistry Letters*.**14**: 2747-2752.

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- 59.** Rakesh Kumar Tiwari, Akhilesh K. Verma, **Anil K. Chhillar**, Devender Singh, Jaspal Singh, Vibha Yadav, Ajay K. Pathak, Rajesh Dabur, Rambir singh, G. L. Sharma and Ramesh Chandra (2006) Synthesis and antibacterial activity of substituted 1,2,3,4-tetrahydropyrazino [1,2-*a*] indoles. *Bioorganic Medicinal Chemistry Letters*.**16**: 413-416.
- 60.** Rajesh Dabur, **A.K. Chhillar**, V.Yadav, Pardeep K.Kamal , J.Gupta and Sharma GL. (2005) *In vitro* antifungal activity of 2-(3,4-dimethyl-2,5-dihydro-1H-pyrrol-2-yl)-1-methylethyl pentanoate, a dihydro pyrrole derivative. *Journal of Medical Microbiology* **54**:549-552.
- 61.** Ashok K Prasad, Vineet Kumar, Pragya Arya, Sarvesh Kumar, Rajesh Dabur, Naresh Singh, **Anil K Chhillar**, Gainda L Sharma, Balaram Ghosh, Jesper Wengel, Carl E Olsen and Virinder S Parmar (2005) Investigations towards new lead compounds from medicinally important plants . *Journal of Pure and Applied Chemistry*.**77 (1)**: 25-40.
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- 63.** J. Gupta, D. P. Bhadoria, M. K. Lal, R. Kukreti, D. Chattopadhaya, V. K. Gupta R. Dabur, V. Yadav, **A. K. Chhillar** and G. L. Sharma (2005) Involvement of IVS1+42C>T transition coupled with PIM3 allele of alpha-1- antitrypsin gene in pathogenesis of chronic obstructive pulmonary disease. *Clinical Biochemistry*. **38(5)**: 489-491.
- 64.** Rajesh Dabur, H. Singh, **A. K. Chhillar**, M. Ali, G.L. Sharma (2004) Antifungal Potential of Indian Medicinal Plants. *Fitoterapia* **75**: 389-391.
- 65.** Ashok K Prasad, Chandrani Mukherjee, Pragya Arya, Gautam K Meghwanshi, **Anil K Chhillar**, Rajendra K Saxena, Gainda L Sharma and Virinder S Parmar (2004) "Greener" Reactions for Novel Dihydropyridines and Dihydropyrimidiones Derivatives using Lipases (Proceedings Indo-US S&T Forum workshop on Green Chemistry-2003-2004 CSIR).



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70. J.S. Yadav, S. Thakur and **A.K. Chhillar** (2001). Genetic risk assessment in cigarette smokers. *Journal of Human Ecology special issue no.* **10**: 165-170.
71. J.S. Yadav, M.R.Burra and **A.K. Chhillar** (2001). Morphogenetic, and Behavioural variations among six endogamous groups of Haryana. *The Nucleus* **44(3)**: 171-175.
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### **Book Chapters**

1. S Dhankhar, M Kumar and **AK Chhillar**. A Hidden Source of Natural Products: Endophytic Bacteria. *Natural Products Research Reviews* 2014, Vol. 2, Pg No. 339-349.
2. S Dhankhar and **AK Chhillar**. The Current Status on Imperative Medicinal Plant: *Catharanthus roseus* (Linn.) G. Don. *Bioactive Phytochemicals: Perspectives for Modern Medicine* 2014, Vol. 2, Pg No. 295-306.
3. R Chaudhary, B Singh, **AK Chhillar**. Ethnomedicinal importances of *R. serpentine* L. Benth. Ex Kurtz in the prevention and treatment of diseases, *Natural Products Research Reviews*, 2015, Vol. 3 (International Edition), Pg No. 305-326.
4. S Khatri, M Kumar, **AK Chhillar**. *Digeria muricata* (L.) Mart: A versatile medicinal plant. *Natural Products Research Reviews*, 2015, Vol. 4 (International Edition), Pg No. 509-524.
5. Savita Khatri, Reena V. Saini and **Anil Kumar Chhillar** (2017) Molecular farming approach towards bioactive compounds. **Metabolic engineering for bioactive compounds, Pg No. 49-72.**
6. Renu Chaudhary, Meenakshi Balhara and **Anil K. Chhillar** (2017) Protein Therapeutic: Production, Application and Future Scenario. **Metabolic engineering for bioactive Compounds, Pg No. 73-88.**
7. Neetu Phougat, Manish Kumar, Reena V. Saini and Anil Kumar Chhillar (2017) Green chemistry approach towards nanoparticles synthesis. **Metabolic engineering for bioactive compounds, Pg No. 249-268.**