Dr. Aman Chandra Kaushik

Research Field

Bioinformatics, Machine Learning, Systems & Synthetic Biology, Genomics, Precision medicine using Cell lines and PDXs models, Omics Experiments, Cell line models and Drug discovery

Thrust Area

My research has been mainly focused on bioinformatics, particularly interested in developing novel methods and computational tools for interpreting large scale genomic and proteomic data from microarrays, second generation sequencing, cell line (CCLE, GDSC, CTRP) and clinical data (TCGA). I use unique proteomics and computational approaches to understand signaling heterogeneity in cancer. Increasing this knowledge will be invaluable in advancing personalized cancer therapies. Cancer Biology, including functional genomics, particularly systems pharmacology to understand the impact of human variation on drug response.

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Research Background

1. I am an experienced Bioinformatician, Genomic and Exome analytics, Artificial Intelligence in Next Gen Data, and in Computational Biology. Fascinate towards the Data Science, Omics Data analytics, Precision Medicine and Computational Genomics.
2. Skilled in Bioinformatics, PERL, Python, R, MySQL, JAVA, PHP, AJAX, CSS, HTML, MATLAB, Shell scripting.
3. As a Bioinformaticians I feel very comfortable working with Clinical Cancer Biology with interests in the general areas of clinical and biomedical informatics, computational biology, and integrative and translational research aiming at the discovery of molecular origins and the development of novel diagnostic and intervention strategies.
4. Research interests include Structural Bioinformatics, High-Performance Computing (HPC), Computer-Aided Drug Design (CADD), Molecular Biophysics, Computational Chemistry, and Machine Learning and published more than 100+ papers in peer-reviewed journals or as book chapters.
5. Developed pipelines for Drug Discovery, Deep Learning, Biomacromolecule Modeling, Molecular Dynamics (MD) Simulation, Free Energy Sampling etc.
6. Developed computational methods to deal with new types of molecular omics data, provided by our collaborators, exploiting formalized biological knowledge in the form of interaction networks and developed our own sources of pathway information relevant to cancer biology.

Academics

UTHealth Science Center at Houston, ***USA,*** ***(QS World University Rankings – 838)*** **Batch - 2021 -Till**
J1 Visiting Researcher

Shanghai Jiao Tong University, ***Shanghai, China,*** ***(QS World University Rankings – 47)*** **Batch - 2017 - 19**
Postdoctoral Scholar in Bioinformatics

Ben Gurion University ***Beer Sheva, Israel*** ***(QS World University Rankings – 446)*** **Batch - 2016 - 17**
Postdoctoral Scholar in Bioinformatics

Gautam Buddha University ***Greater Noida, India*** ***(QS World University Rankings – 7801)*** **Batch – 2013 - 16**
PhD in Bioinformatics

Chhatrapati Shahu Ji Maharaj Kanpur University, ***India*** ***(QS World Rankings – 4540)*** **Batch – 2011 - 13**
M.Sc. in Bioinformatics

Deen Dayal Upadhyay Gorakhpur University ***(QS World University Rankings – 7241)*** **Batch – 2009 - 11**
B.Sc. in Life Science

Research & Work Experience

University of Texas Health Science Center at Houston, Texas, ***USA*** **Sep 2021 – Till Date**
Position: J1 Visiting Researcher
Topic: Precisions Medicine for Cancer Treatments

School of Medicine, Jiangnan University, Wuxi, Jiangsu, 214122 China **Oct 2019 – April 2021**
Position: *Assistant Professor (Lecturer)*
Courses Taught: Public Health Informatics, Bioinformatics

Shanghai Jiao Tong University, ***Shanghai, China*** **Oct 2017 – Sep 2019**
Position: *Postdoctoral Scholar*
Topic: Machine Learning approach to predict Precisions medicine for cancer treatments
Principal Investigator: Prof. Dong-Qing Wei

Ben Gurion University of the Negev, Beer Sheva, Israel **Feb 2017 – Sep 2017**
Position: *Postdoctoral Scholar*
Topic: Development of new cancer therapies
Principal Investigator: Prof. Eitan Rubin

Ben Gurion University of the Negev, Beer Sheva, Israel **Jul 2016 – Oct 2016**
Position: *Intern*
Topic: Developed VCF2SPECTRA Pipelines
Principal Investigator: Prof. Eitan Rubin

CSIR-National Botanical Research Institute (NBRI), Lucknow, India **Jun 2013 – Aug 2013**
Position: *Project Assistant (Database Developer)*
Topic: Withania OMICS Database, Withanome (www.prabodhslab.com)
Principal Investigator: Dr. Prabodh Kumar Trivedi

Achievement and Awards

1) I was awarded a "**The Cancer Prevention Research Training Program (CPRIT) postdoctoral fellowship"** from University of Texas Health Science Center at Houston, Texas, USA- December 2021**.**
2) I was awarded a "Albany 2019 Conversation, New York, **USA**, Adenine Press (2019)", **"Young Scientist Speaker Program". http://www.jbsdonline.com/c4eep-neural-network-font-colorred-short-oral-font-p18948.html**.
3) I was awarded a **Grant** from **ICGEB** for "Course: Bioinformatics applications to support the analysis of plant biotechnological research", organized by the National Institute of Agricultural Innovation, **Lima – Peru (South America)**, from 04 - 15 March 2019.
4) I was awarded a "**Outstanding Young Researcher Award**" for Deep learning based approach for prevention of Alzheimer's disease organized by CBSB2018, Shenzhen, **China**.
5) I was awarded a **Travel grant and total expenses** for CBSB2018, Shenzhen, China from Ministry of Science and Technology of **China** (2016YFA0501703).
6) I was awarded a **SJTU Postdoctoral Fellowship** from Ministry of Education of **China** and the Shanghai Municipal Government 2017-2019.
7) I was awarded a **Kreitman Postdoctoral Fellowship (PDF)** from Government of **Israel** 2016-2017.
8) I was awarded a **Travel grant and total expenses** for MCCMB 2017 Conference, Moscow, **Russia** from Kreitman, Israeli Ministry of Science, ISF.
9) I was awarded a **Travel grant and total expenses** for "Worldwide innovative networking in personalized cancer medicine", WIN 2017 Symposium, Paris, **France** from WIN 2017 Symposium.
10) I was awarded a **Travel grant and total expenses** for Joint ICGEB-ICTP-APCTP Workshop on Systems Biology and Molecular Economy of Microbial Communities from ICTP which governed by UNESCO, IAEA and **Italy**.
11) I was awarded a **4-month Scholarship** from Ministry of Science, Technology Space Israel; I was part of Cancer project as an attachment student during my Pre-submission to Final-submission of PhD; which is collaborative project of 5 institutions of **Israel**.
12) I was awarded an Indian Council of Medical Research (ICMR) - **Senior Research Fellowship (SRF)** during my PhD 2016.
13) I was awarded a "**Young Researcher Scholar Award**" from 17th International Conference on Healthcare & Life-Science Research (ICHLSR), 22-23 July 2017, Bangkok, **Thailand** organized by GRDS International Conference.
14) I was awarded an **AMCAT certification** and my AMCAT ID: 10015508980221 in 2012.

Research/Project Funding's

Project Funding #	Title of Project	Role	Sponsoring agency	Year of sanction	Amount (RMB)	Duration (Year)	Status
JUSRP12049	Evaluation and verification of the synergistic effect of low-temperature atmospheric plasma drugs in the treatment of breast cancer	PI	Youth Fund Grant from Jiangnan University, Wuxi, Jiangsu, China	2020	80000.00	1 Year	Completed

Research Publications

Profile	Link	Citations	h-index	i10-index
Google Scholar	https://scholar.google.co.in/citations?user=FjKsBrgAAAAJ&hl=en	1100+	19	38

Research Publications

1. Mehmood, Aamir, Sadia Nawab, Yanjing Wang, **Aman Chandra Kaushik**, and Dong-Qing Wei. (2022). Discovering potent inhibitors against the Mpro of the SARS-CoV-2. A medicinal chemistry approach. ***Computers in Biology and Medicine*** (2022): 105235. **Impact Factor 4.589. (SCI Journal) Quartiles: Q1**
2. **Aman Chandra Kaushik**, Qiqi Wu, Li Lin, Haibo Li, Longqi Zhao, Zilu Wen, Yanzheng Song, Qihang Wu, Jin Wang, Xiaokui Guo, Hualin Wang, Xiaoli Yu, Dongqing Wei, Shulin Zhang (2021). Exosomal ncRNAs profiling of mycobacterial infection identified miRNA-185-5p as a novel biomarker for tuberculosis. ***Briefings in Bioinformatics.*** DOI: 10.1093/bib/bbab210. **Impact Factor 11.622. (SCI Journal) Quartiles: Q1**
3. Xianfang Wang, Yifeng Liu, Zhiyong Du, Mingdong Zhu, **Aman Chandra Kaushik**, Xue Jiang, Dongqing Wei (2021). Prediction of Protein Solubility Based on Sequence Feature Fusion and

DDcCNN. ***Interdisciplinary Sciences: Computational Life Sciences***. https://doi.org/10.1007/s12539-021-00456-1. **Impact Factor 2.233. (SCI Journal) Quartiles: Q3**

4. Utkarsh Raj, Sneha Rai, Sandeep Kumar Mathur, Aditya Saxena, **Aman Chandra Kaushik** (2021). A Comprehensive study on SARS-CoV-2 through gene expression meta-analysis and network biology approach. ***Journal of Applied Biotechnology Reports, 8 (3), 242-253.*** **Impact Factor 0.0. (Scopus Journal) Quartiles: Q4.**
5. **Aman Chandra Kaushik**, Aamir Mehmood, Gurudeeban Selvaraj, Xiaofeng Dai, Yi Pan and Dong-Qing Wei. (2021). CoronaPep: An Anti-coronavirus Peptide Generation Tool. ***IEEE/ACM Transactions on Computational Biology and Bioinformatics.*** doi: 10.1109/TCBB.2021.3064630. **Impact Factor 3.710. (SCI Journal) Quartiles: Q2**
6. Cheng-Tang Pan, Karishma Dutt, Chung-Kun Yen, Ajay Kumar, **Aman Chandra Kaushik,** Dong-Qing Wei, Amit Kumar, Zhi-Hong Wen, Wen-Hsin Hsu, You-Ling Shiue. (2021). Characterization of Piezoelectric Properties of Ag-NPs Doped PVDF Nanocomposite Fibres Membrane Prepared by Near Field Electrospinning. ***Combinatorial Chemistry and High Throughput Screening.*** doi: 10.2174/1386207324666210302100728. **Impact Factor 1.339. (SCI Journal) Quartiles: Q3**
7. Muhammad Tahir Khan, Sajid Ali, Anwar sheed khan, Arif ali, Abbas Khan, **Aman Chandra Kaushik**, Muhammad Irfan, Sathishkumar Chinnasamy, Shulin Zhang, Yu-Juan Zhang, Zhilei Cui, Amie Jinghua Wei, Yanjie Wang, Mingzhu Zhao, Kejia Liu, Heng Wang, Muhammad Tariq Zeb, Dong Qing Wei. (2021). Insight into the drug resistance whole genome of Mycobacterium tuberculosis isolates from Khyber Pakhtunkhwa, Pakistan. ***Infection, Genetics and Evolution***. 92: 104861. https://doi.org/10.1016/j.meegid.2021.104861. **Impact Factor 3.342. (SCI Journal) Quartiles: Q1**
8. Khan, Muhammad Tahir, Muhammad Irfan, Hina Ahsan, Abrar Ahmed, **Aman Chandra Kaushik**, Anwar Sheed Khan, Sathishkumar Chinnasamy, Arif Ali, and Dong-Qing Wei. (2021). Structures of SARS-CoV-2 RNA-Binding Proteins and Therapeutic Targets. ***Intervirology*** 64, no. 2: 55-68. https://doi.org/10.1159/000513686. **Impact Factor 1.763. (SCI Journal) Quartiles: Q3**
9. Mehmood, Aamir, **Aman Chandra Kaushik**, Qiankun Wang, Cheng-Dong Li, and Dong-Qing Wei. (2021). Bringing Structural Implications and Deep Learning-Based Drug Identification for KRAS Mutants. ***Journal of Chemical Information and Modeling***, 61, 2, 571–586. https://doi.org/10.1021/acs.jcim.0c00488. **Impact Factor 4.956. (SCI Journal) Quartiles: Q1**
10. **Aman Chandra Kaushik**, Mengyang Li, Aamir Mehmood, Xiaofeng Dai and Dong-Qing Wei. (2021). ACPS: An accurate bioinformatics tool for precision based anti-cancer peptide generation via omics data. ***Chemical Biology Drug Design*** Volume97, Issue2, Pages 372-382, https://doi.org/10.1111/cbdd.13789. **Impact Factor 2.817. (SCI Journal) Quartiles: Q2**
11. **Aman Chandra Kaushik**, Yanjing Wang, Xiangeng Wang and Dong-Qing Wei. (2021). Irinotecan and vandetanib create synergies for treatment of pancreatic cancer patients with concomitant TP53 and KRAS mutations. ***Briefings in Bioinformatics.*** https://doi.org/10.1093/bib/bbaa149 **(*Corresponding Author) Impact Factor 11.622. (SCI Journal) Quartiles: Q1**
12. **Aman Chandra Kaushik**, Aamir Mehmood, Shaoliang Peng, Yu-Juan Zhang, Xiaofeng Dai, and Dong-Qing Wei. (2021). A-CaMP: a tool for anti-cancer and antimicrobial peptide generation. ***Journal of Biomolecular Structure and Dynamics***: 39(1), 285-293.

https://doi.org/10.1080/07391102.2019.1708796 **Impact Factor 3.107 (No IF 2021). (SCI Journal) Quartiles: Q3**

13. **Aman Chandra Kaushik**, Aamir Mehmood, Dong-Qing Wei, and Xiaofeng Dai. (2020)**.** Globally ncRNAs expression profiling of TNBC and screening of functional lncRNA. ***Frontiers in Bioengineering and Biotechnology*** **8 (2020): 1480.** https://doi.org/10.3389/fbioe.2020.523127 **(*First and Co-Corresponding Author). Impact Factor 5.890. (SCI Journal) Quartiles: Q1**
14. **Aman Chandra Kaushik**, Aamir Mehmood, Xiaofeng Dai, and Dong-Qing Wei. **(2020).** Pan-cancer Analysis and Drug Formulation for GPR139 and GPR142. ***Frontiers in Pharmacology,*** **11: 2154. https://doi.org/10.3389/fphar.2020.521245. (*First and Co-Corresponding Author) Impact Factor 5.810. (SCI Journal) Quartiles: Q1**
15. Cheng-Tang Pan, Shao-Yu Wang, Chung-Kun Yen, Ajay Kumar, Shiao-Wei Kuo, Jing-Long Zheng, Zhi-Hong Wen, Rachiat Singh, Satya P. Singh, Muhammad Tahir Khan**,** Ravi Kumar Chaudhary, Xiaofeng Dai, **Aman Chandra Kaushik,** Dong-Qing Wei, Yow-Ling Shiue and Wei-Hsi Chang**.** (2020). Polyvinylidene Fluoride-Added Ceramic Powder Composite Near-Field Electrospinned Piezoelectric Fiber-Based Low-Frequency Dynamic Sensors**.** ***ACS OMEGA****, 5(28), 17090−17101****.*** **https://doi.org/10.1021/acsomega.0c00805 (*Co-corresponding Author) Impact Factor 3.512. (SCI Journal) Quartiles: Q1**
16. Yu-Xin Du, Ke-Ning Li, Xian-Geng Wang, **Aman Chandra Kaushik**, Muhammad Junaid, Dong-Qing Wei. (2020). Identification of chlorprothixene as a potential drug that induces apoptosis and autophagic cell death in acute myeloid leukemia cells. ***FEBS Journal***. (Wiley). 287(8):1645-1665. doi:10.1111/febs.15102. **Impact Factor 5.542. (SCI Journal). Quartiles: Q1**
17. **Aman Chandra Kaushik** and Utkarsh Raj. (2020). AI-driven drug discovery: A boon against COVID-19?. ***AI Open*** 1, 1-4. https://doi.org/10.1016/j.aiopen.2020.07.001. **Impact Factor 0.0. (Scopus, Web of Science) Quartiles: Not yet assigned quartile**
18. Asma Sindhoo Nangraj, Gurudeeban Selvaraj, Satyavani Kaliamurthi, **Aman Chandra Kaushik**, William C. Cho and Dong Qing Wei. (2020). Integrated PPI-and WGCNA-Retrieval of Hub Gene Signatures Shared Between Barrett's Esophagus and Esophageal Adenocarcinoma. ***Frontiers in Pharmacology***. 11: 881. doi: 10.3389/fphar. **Impact Factor 5.810. (SCI Journal) Quartiles: Q1**
19. Pan, Cheng-Tang, Shao-Yu Wang, Chung-Kun Yen, Song-Wei Zeng, Ajay Kumur, Shih-Shin Liang, Zong-Hsin Liu, ... **Aman Chandra Kaushik** et al. (2020). Fabrication of Biodegradable Poly (caprolactone) Spherical-Microcarriers for Arterial Embolization. ***Journal of Nanoscience and Nanotechnology*** 20, no. 8: 5162-5174. doi: 10.1166/jnn.2020.18533. **Impact Factor 1.134. (SCI Journal) Quartiles: Not yet assigned quartile**
20. **Aman Chandra Kaushik**, Aamir Mehmood and Dong-Qing Wei, Xiaofeng Dai. (2020). Systems biology integration and Screening of reliable prognostic markers to create synergies in the control of lung cancer patients. ***Frontiers in Molecular Biosciences***, *7*, 47. https://doi.org/10.3389/fmolb.2020.00047. **Impact Factor 5.246. (SCI Journal) Quartiles: Q1**
21. **Aman Chandra Kaushik**, Aamir Mehmood and Xiaofeng Dai, Dong-Qing Wei. (2020). WeiBI (web-based platform): Enriching integrated interaction network with increased coverage and functional

proteins from genome-wide experimental OMICS data. ***Scientific Reports***, *10*(1), 1-7. doi: 10.1038/s41598-020-62508-8. **Impact Factor 4.379. (SCI Journal) Quartiles: Q1**

22. **Aman Chandra Kaushik**, Aamir Mehmood and Dong-Qing Wei, Xiaofeng Dai. (2020). Robust Biomarker Screening Using Spares Learning Approach for Liver Cancer Prognosis. ***Frontiers in Bioengineering and Biotechnology*** 8: 241. https://doi.org/10.3389/fbioe.2020.00241. **Impact Factor 5.890. (SCI Journal) Quartiles: Q1**
23. Kumar, Ajay, Ravi Kumar Chaudhary, Rachita Singh, Satya P. Singh, Shao-Yu Wang, Zheng-Yu Hoe, Cheng-Tang Pan et al. **Aman Chandra Kaushik** & Dai, Xiaofeng. (2020). Nanotheranostic Applications for Detection and Targeting Neurodegenerative Diseases. ***Frontiers in Neuroscience***, *14*, 305. https://doi.org/10.3389/fnins.2020.00305. **(*Co-corresponding Author) Impact Factor 4.677. (SCI Journal) Quartiles: Q2**
24. **Aman Chandra Kaushik**, Aamir Mehmood, Xiaofeng Dai, and Dong-Qing Wei. (2020). A comparative chemogenic analysis for predicting Drug-Target Pair via Machine Learning Approaches. ***Scientific Reports*** 10, no. 1: 1-11. DOI:10.1038/s41598-020-63842-7. **Impact Factor 4.379. (SCI Journal) Quartiles: Q1**
25. Khan, Muhammad Tahir, Sajid Ali, Muhammad Tariq Zeb, **Aman Chandra Kaushik**, Shaukat Iqbal Malik, and Dong-Qing Wei. (2020). Gibbs free energy calculation of mutation in PncA and RpsA associated with pyrazinamide resistance. ***Frontiers in Molecular Biosciences***, *7*, 52. **(*Co-corresponding Author) Impact Factor 5.246. (SCI Journal) Quartiles: Q1**
26. Yu-Fang Zhang, Xiangeng Wang, **Aman Chandra Kaushik**, Yanyi Chu, Xiaoqi Shan, Ming-Zhu Zhao, Qin Xu, Dong-Qing Wei. (2020). SPVec: A Word2vec-inspired feature representation method for Drug-Target Interaction Prediction. ***Frontiers in Chemistry***. *7*, 895. https://doi.org/10.3389/fchem.2019.00895. **Impact Factor 5.221. (SCI Journal) Quartiles: Q1**
27. Khan, Muhammad Tahir, **Aman Chandra Kaushik,** Qurrat ul ain Rana, Shaukat Iqbal Malik, Anwar Sheed Khan, Dong-Qing Wei, Wasim Sajjad, Shabir Ahmad, Sajid Ali, and Muhammad Irfan. (2020). Characterization and synthetic biology of lipase from Bacillus amyloliquefaciens strain. ***Archives of Microbiology***, 1497-1506. https://doi.org/10.1007/s00203-020-01869-0. **Impact Factor 2.552. (SCI Journal) Quartiles: Q2**
28. Dai, Xiaofeng, Olivier Hakizimana, Xuanhao Zhang, **Aman Chandra Kaushik**, and Jianying Zhang. (2020). Orchestrated efforts on host network hijacking: Processes governing virus replication. ***Virulence***, *11*(1), 183-198. doi: 10.1080/21505594.2020.1726594 **Impact Factor 5.882. (SCI Journal) Quartiles: Q1**
29. Chinnasamy, Sathishkumar, Gurudeeban Selvaraj, Chandrabose Selvaraj, **Aman Chandra Kaushik**, Satyavani Kaliamurthi, Abbas Khan, Sanjeev Kumar Singh, and Dong-Qing Wei. (2020). Combining in silico and in vitro approaches to identification of potent inhibitor against phospholipase A2 (PLA2). ***International Journal of Biological Macromolecules***, *144*, 53-66. doi: 10.1016/j.ijbiomac.2019.12.091. **Impact Factor 6.953. (SCI Journal) Quartiles: Q1**
30. Yanyi Chu, **Aman Chandra Kaushik**, Xiangeng Wang, Wei Wang, Yufang Zhang, Xiaoqi Shan, Dennis R. Salahub, Yi Xiong, and Dong-Qing Wei. (2019). DTI-CDF: a cascade deep forest model towards the prediction of drug-target interactions based on hybrid features. ***Briefings in***

Bioinformatics. 22(1):451-462. doi: 10.1093/bib/bbz152. **Impact Factor 11.622. (SCI Journal) Quartiles: Q1**

31. Mehmood, Aamir, Muhammad Tahir Khan, **Aman Chandra Kaushik**, Anwar Sheed Khan, Muhammad Irfan, and Dong-Qing Wei. (2019). Structural dynamics behind clinical mutants of PncA-Asp12Ala, Pro54Leu, and His57Pro of Mycobacterium tuberculosis associated with pyrazinamide resistance. ***Frontiers in Bioengineering and Biotechnology*** 7: 404. https://doi.org/10.3389/fbioe.2019.00404. **Impact Factor 5.890. (SCI Journal) Quartiles: Q1**
32. **Aman Chandra Kaushik**, Aamir Mehmood, Arnav Kumar Upadhyay, Shalinee Paul, Shubham Srivastava, Prayuv Mali, Yi Xiong, Xiaofeng Dai, Dong-Qing Wei, Shakti Sahi. *(2019).* CytoMegaloVirus Infection Database: a public omics database for systematic and comparable information of CMV. ***Interdisciplinary Sciences: Computational Life Sciences****. 12(2):169-177. doi: 10.1007/s12539-019-00350-x.* **Impact Factor 2.233. (SCI Journal) Quartiles: Q3**
33. Yanjing Wang, Xiangeng Wang, Yi Xiong, Cheng-Dong Li, Qin Xu, Lu Shen, **Aman Chandra Kaushik**, Dong-Qing Wei. (2019). An Integrated Pan-Cancer Analysis and Structure-Based Virtual Screening of GPR15. ***International Journal of Molecular Sciences (MDPI).*** 10;20(24):6226. doi: 10.3390/ijms20246226. **(*Co-corresponding Author). Impact Factor 5.923. (SCI Journal) Quartiles: Q1**
34. Xiaofeng Dai, **Aman Chandra Kaushik,** Jianying Zhang. (2019). The emerging role of major regulatory RNAs in cancer control. ***Frontiers in Oncology.*** doi: 10.3389/fonc.2019.00920. **Impact Factor 6.244. (SCI Journal) Quartiles: Q1**
35. Sathishkumar Chinnasamy, Gurudeeban Selvaraj, **Aman Chandra Kaushik**, Satyavani Kaliamurthi, Asma Sindhoo Nangraj, Chandrabose Selvaraj, Sanjeev Kumar Singh, Ramanathan Thirugnanasambandam, Keren Gu, Donq-Qing Wei. (2019). Molecular docking and molecular dynamics simulation studies to identify potent AURKA inhibitors: assessing the performance of density functional theory, MM-GBSA and mass action kinetics calculations. ***Journal of Biomolecular Structure and Dynamics.*** *38(14):4325-4335. doi: 10.1080/07391102.2019.1674695.* **Impact Factor 3.107 (No IF 2021). (SCI Journal) Quartiles: Q3**
36. Muhammad Tahir Khan, **Aman Chandra Kaushik**, Aamer Iqbal Bhatti, Yu-Juan Zhang, Shulin Zhang, Amie Jinghua Wei, Shaukat Iqbal Malik, Dong Qing Wei. (2019). Marine Natural Products and Drug Resistance in Latent Tuberculosis**.** ***Marine Drugs (MDPI).*** *17(10):549. doi: 10.3390/md17100549.* **Impact Factor 5.118. (SCI Journal) Quartiles: Q2**
37. **Aman Chandra Kaushik,** Dong Qing Wei. (2019). Evaluation and validation of synergistic effect of predicted amyloid-beta (A beta) inhibitor by deep neural network. In ***Journal of Biomolecular Structure and Dynamics***, vol. 37, pp. 8-8. 530 WALNUT STREET, STE 850, PHILADELPHIA, PA 19106 USA: TAYLOR & FRANCIS INC, 2019. **Impact Factor 3.107 (No IF 2021). (SCI Journal) Quartiles: Q3**
38. Cheng-Tang Pan, Wei-Hsi Chang, Ajay Kumar, Satya P Singh, **Aman Chandra Kaushik**, Jyotsna Sharma, Zheng-Jing Long, Zhi-Hong Wen, Sunil Kumar Mishra, Chung-Kun Yen, Ravi Kumar Chaudhary, Yow-Ling Shiue. (2019). Nanoparticles-mediated Brain Imaging and Disease Prognosis by Conventional as well as Modern Modal Imaging Techniques: a Comparison. ***Current***

Pharmaceutical Design (Bentham Science). 25(24):2637-2649. doi: 10.2174/1381612825666190709. **Impact Factor 3.116. (SCI Journal) Quartiles: Q2**

39. Yongqin Yin, Bo Li, Kejie Mou, Muhammad T. Khan, **Aman Chandra Kaushik,** Dongqing Wei, Yu-Juan Zhang. (2019). Stoichioproteomics reveal oxygen usage bias, key proteins and pathways in glioma. ***BMC Medical Genomics, volume 12, Article number: 125***. https://doi.org/10.1186/s12920-019-0571-y. **Impact Factor 3.063. (SCI Journal) Quartiles: Q2**
40. Aamir Mehmood, **Aman Chandra Kaushik** and Dong-Qing Wei. (2019). Prediction and validation of potent peptides against Herpes Simplex Virus Type 1 (HSV-1) via immunoinformatics and systems biology approach. ***Chemical Biology Drug Design***. 94(5), pp1868-1883, doi: 10.1111/cbdd.13602. **Impact Factor 2.817. (SCI Journal) Quartiles: Q2**
41. Wang, Yanjing, Xiangeng Wang, Yi Xiong, **Aman Chandra Kaushik**, Junaid Muhammad, Abbas Khan, Hao Dai, and Dong-Qing Wei. (2019). New Strategy for Identifying Potential Natural HIV-1 Non-nucleoside Reverse Transcriptase Inhibitors Against Drug-Resistance: an *in silico* study. ***Journal of Biomolecular Structure and Dynamics.*** 19:1-19. doi: 10.1080/07391102.2019.1656673. **Impact Factor 3.107 (No IF 2021). (SCI Journal) Quartiles: Q3**
42. **Aman Chandra Kaushik**, Ajay Kumar, Satya P Singh, Xiangeng Wang, Yan-Jing Wang, Cheng-Tang Pan, Yow-Ling Shiue, Dong-Qing Wei. (2019). Evalution of anti-EGFR-iRGD recombinant protein with GOLD nanoparticles synergistic effect on antitumor efficiency using optimized Deep neural network. ***RSC Advances***. DOI: 10.1039/C9RA01975H. **Impact Factor 3.361. (SCI Journal) Quartiles: Q1**
43. **Aman Chandra Kaushik**, Ajay Kumar, Chun-Yen Yu, Shiao-Wei Kuo, Shih-Shin Liang, Satya P Singh, Xiangeng Wang, Yan-Jing Wang, Chung-Kun Yen, Xiaofeng Dai, Dong-Qing Wei, Cheng-Tang Pan, Yow-Ling Shiue. (2019). PCL-DOX Macro drops: Evaluation of enhanced intracellular delivery of doxorubicin in metastatic cancer cells by in-silico and in-vitro approach. ***New Journal of Chemistry (RSC)***. DOI: 10.1039/C9NJ01902B. **Impact Factor 3.591. (SCI Journal) Quartiles: Q1**
44. Ke-Ning Li, Cong-Ling Xu, Muhammad Junaid, **Aman Chandra Kaushik**, Dong-Qing Wei. (2019). Comprehensive epigenetic analyses reveal transcription regulatory network driving lung metastasis of breast cancer. ***Journal of Cellular and Molecular Medicine*** **(Wiley)**. DOI: 10.1111/jcmm.14424 **Impact Factor 5.310. (SCI Journal) Quartiles: Q1**
45. **Aman Chandra Kaushik**, Deeksha Gautam, Asma Sindhoo Nangraj, Dong-Qing Wei and Shakti Sahi. (2019). Protection of Primary Dopaminergic Midbrain Neurons through impact of small molecule ligands using Virtual screening of GPR139 supported by a molecular dynamic simulation and Systems Biology. ***Interdisciplinary Sciences: Computational Life Sciences (Springer)***. DOI: 10.1007/s12539-019-00334-x. **Impact Factor 2.233. (SCI Journal) Quartiles: Q3**
46. Abbas Khan, **Aman Chandra Kaushik**, Syed Shujait Ali, Nisar Ahmad and Dongqing Wei. (2019). Deep-learning-based targets screening and similarity search for the predicted inhibitors of the pathways in Parkinson's diseases. ***RSC Advances***. DOI:10.1039/c9ra01007f. **(*Equal First Author). Impact Factor 3.361. (SCI Journal) Quartiles: Q1**
47. Muhammad T. Khan, **Aman Chandra Kaushik**, Shaukat I. Malik, Sajid Ali and Dongqing Wei. (2019). Artificial neural networks for prediction of tuberculosis disease. ***Frontiers in Microbiology***.

doi: 10.3389/fmicb.2019.00395. **(*Equal First Author). Impact Factor 5.640. (SCI Journal) Quartiles: Q1**

48. Shah SB, **Aman Chandra Kaushik**, Ali F, Huang L, Lu X, Sartaj L, Xu P, Tang H, (2019). Computational and in vitro analysis of an HBCD degrading gene DehHZ1 from strain HBCD-sjtu. ***Journal of biological regulators and homeostatic agents***; 33(1):157-162. **Impact Factor 1.711. (SCI Journal) Quartiles: Q3**
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93. **Aman Chandra Kaushik**, Deeksha Gautam, Shakti Sahi. Deciphering evolutionarily conserved Orphan G-protein- coupled receptors from homolog cluster, International Conference on Advances in Biomedical Engineering, Cancer Biology, Stem Cells, Bioinformatics and Applied Biotechnology (ABECBAB-2016), **JNU, New Delhi**. Published

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Poster presentation

94. **Aman Chandra Kaushik,** Yanjing Wang, Dongqing Wei. Machine Learning approach to predict Precisions medicine for cancer treatments, From Computational Biophysics to Systems Biology (**CBSB2018)**, Shenzhen, China.
95. **Aman Chandra Kaushik,** Deeksha Gautam and Shakti Sahi, **Insights into the signalling pathways studies of GPR139 and impacts of their inhibitors using systems biology and pharmacokinetics,** 8th Moscow Conference on Computational Molecular Biology (MCCMB'17) **Moscow, Russia**, July 27-30, 2017.
96. **Aman Chandra Kaushik** and Sanjay Kumar, **Activity analysis of economically importance antibiotics drugs in Mycobacterium tuberculosis H37Rv,** Joint ICGEB-ICTP-APCTP Workshop on Systems Biology and Molecular Economy of Microbial Communities from ICTP which governed by UNESCO, IAEA and **Italy,** July 03-07, 2017 (One Week Workshop).
97. **Aman Chandra Kaushik** and Eitan Rubin, **Molecular Investigation of Wild and Mutant Active Binding Site Expression of GPR15 in Cancer using Structure based Virtual Screening and Molecular Dynamics Simulation** in Expediting Global Innovation in Precision Cancer Medicine, WIN 2017 Symposium, **Paris, France,** June 26-27, 2017.
98. **Aman Chandra Kaushik** and Shakti Sahi, **Natural Drug Database for Liver cancer-NDDLC Server**, Development and advancement in conservation, propagation and sustainable utilization of medicinal plants (DSUMP 2017), School of Biotechnology, Gautam Buddha University, **Greater Noida, India,** January 20-21, 2017.
99. **Aman Chandra Kaushik** and Shakti Sahi, **Insight Molecular Dynamics Simulations studies of Unbound-Bound states of GPR142 Receptor in a Membrane-Aqueous System**, INDUSTRY-ACADEMIA MEET, 2016, School of Biotechnology, Gautam Buddha University, **Greater Noida, India,** April 18, 2016.
100. **Aman Chandra Kaushik,** Anshul Raghuvanshi, Pavan Kumar, Vikrant Nain, Rekha Puria and Shakti Sahi, **Identification of novel inhibitors of mTOR-kinase through docking studies,** Accelerating Biology 2014 (Computing Life) on current trends in Bioinformatics, BRAF, **C-DAC, Pune, India,** February 18-20, 2014.

Book

101. **Aman Chandra Kaushik,** Ajay Kumar, Shiv Bharadwaj, Ravi Kumar Chaudhary, Shakti Sahi, Bioinformatics Techniques for Drug Discovery Applications for Complex

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Book Chapter

102. **Aman Chandra Kaushik**, Shakti Sahi and Dong-Qing Wei (2022). Computational Methods for Structure-Based Drug Design Through System Biology, in Book Title: **Computational Methods for Estimating the Kinetic Parameters of Biological Systems**. DOI: 10.1007/978-1-0716-1767-0_9.
103. **Aman Chandra Kaushik** and Shakti Sahi (2021). Computational cancer genomics in Book Title: **Chemoinformatics and Bioinformatics in the Pharmaceutical Sciences (Academic Press is an imprint of Elsevier)** Chapter 11, pp 329-346, Edited By Navneet Sharma Himanshu Ojha Pawan Kumar Raghav Ramesh K. Goyal, 125 London Wall, London EC2Y 5AS, United Kingdom, ISBN: 978-0-12-821748-1. https://doi.org/10.1016/B978-0-12-821748-1.00007-5.
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105. **Aman Chandra Kaushik,** Shiv Bharadwaj, Ajay Kumar, Avinash Dhar, Dongqing Wei (2018). New Trends in Artificial Intelligence: Applications of Particle Swarm Optimization in Biomedical Problems in Book Title: **Intelligent System (InTechOpen).** Chapter 9, pp 193-207, Edited by Chatchawal Wongchoosuk, ISBN 978-1-78923-606-4, eISBN 978-1-78923-607-1.
106. **Aman Chandra Kaushik** and Shakti Sahi (2018). Perspective on Trends in Drug Discovery: Deciphering GPCRs through integration of systems and switching biology in **"Frontiers in Drug Design and Discovery" (Bentham Science Publishers),** Chapter 3, pp 91-112, Edited by Atta-ur-Rahman, M. Iqbal Choudhary, ISSN: 1574-0889 (Print), ISSN: 2212-1064 (Online), ISBN: 978-1-68108-583-8 (Print), ISBN: 978-1-68108-582-1 (Online).

Software Copyright

1. Chinese Copyright acceptance for "Anti-cancer Vaccine Scanner (ACVS): Precisions based approach for cancer treatments" [2018R11L326262].

Editor in Journals

1. **Guest Editor for Special Issue** "*CADD and Molecular Dynamic Simulations: Potential Impacts to Conventional Medicines*"**): Combinatorial Chemistry & High Throughput Screening** (Bentham Science).
2. **Former Assistant Editor:** Interdisciplinary Sciences: Computational Life Sciences (Springer Nature)
3. **Guest Editor for Special Issue** on "Computational Genomics and Molecular Medicine for Emerging COVID-19" (***IEEE/ACM Transactions in Computational Biology and Bioinformatics***). https://www.computer.org/digital-library/journals/tcbb/call-for-papers-special-issue-on-computational-genomics-and-molecular-medicine-for-emerging-covid-19
4. **Guest Editor for Special Issue** "Artificial Intelligence Approaches In Molecular Engineering And Potential Impacts And Applications To Conventional Medicines": Artificial Intelligence in Chemistry (**Frontiers in Chemistry**). https://www.ncbi.nlm.nih.gov/pubmed/30675829
5. **Guest Editor for Special Issue (**BMS-CPD-2018-HT12-500 "Computational perspective on the current state of the methods and new challenges in cancer drug discovery"**):** Current Pharmaceutical Design (Bentham Science). https://www.ncbi.nlm.nih.gov/pubmed/30675829
6. **Editorial Board Member:** Scientific Journal of Human Nutrition and Metabolic Research

Invited Talk

Invited talk on **Computational Aspects of Systems Biology** organized by National Assembly Systems Biology and Computational Systems Biology Conference at Shanghai Jiao Tong University Minhang Campus, 21-22 September 2019.

Research Based Participation in Workshop

1) 2014 - Participated in International symposium on "Accelerating Biology 2014 (Computing Life)" on current trends in Bioinformatics, BRAF, C-DAC, Pune.

2) 2013 - Workshop Training on the System Biology From Indian Institute of Information Technology (IIIT) Allahabad organized by Council of Scientific and Industrial Research (CSIR).

3) 2012- A Workshop Training on the Drug Discovery Technology From Indian Institute of Technology (IIT) Guwahati organized by Biodiscovery.

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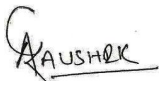
I hereby certify that the information given above is true and correct to the best of my knowledge and belief.



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