



# Murshidabad University



## Prof. (Dr.) Achintya Saha

Vice-Chancellor, Murshidabad University

(Since October 4, 2023)

and

Professor, Department of Chemical Technology, University of Calcutta (On Lien)

**Experience as a Professor:** 11 + years (Since November 2012)

**Academic qualifications:** B. Pharm. (JU), M. Pharm. (JU), PhD (JU)  
Post-Doctorate (UNC, USA)

### Awards:

1. SAARC Fellow, 2013, Dept. of Pharmaceutical Technology, Dhaka University
2. DST BOYSCAST Fellow, 2008, School of Pharmacy, University of North Carolina, USA
3. DST Fast Track Young Scientist, 2006, Chemical Technology, University of Calcutta

### Administrative experience:

**A) Murshidabad University:** Vice-Chancellor, since October 4, 2023

**B) University of Calcutta:**

*Head of the Department:* May 6, 2015 to May 5, 2017

Departmental & Board of Studies member

Convener, RAC in Chemical Technology (Applied Chemistry): 2018-2022

Head Examiner of UG General Chemistry: 2006 to 2012

Faculty Council of Technology and Senate Member: 2012-2016

*Technical Education Quality Improvement Program*, University of Calcutta:

TEQIP Phase I (2006-2011): Member of Academic Committee

TEQIP Phase II (2012-2017): Coordinator of Equity-opportunity program

TEQIP Phase III (2018-2021): Member of Academic & Purchase committees

*University Potential of Excellence (UPE) Program:*

UPE I (2007-2012): Member of the Academic Committee

UPE II (2017-2021): Member of the Academic Committee

*UGC-Academic Staff College:* Organized six Orientation Programs (2001-2014) and one Principal's Workshop (2005) as Courses Coordinator

**C) Pharmaceutical Technology, Jadavpur University:** Member of the PRC

- D) School of Pharmacy, Sister Nivedita University:** Member of the Board of Studies  
**E) Guru Nanak Institute of Pharmaceutical Science and Technology:** Member of the Board of Studies

**Academic experience:**

**A) Teaching:**

Professor, Chemical Technology, University of Calcutta since November 2012  
Associate Professor, Chemical Technology, University of Calcutta, November 2009 – October 2012  
Reader, Chemical Technology, University of Calcutta, November 2006 – October 2009  
Sr. Lecturer, Chemical Technology, University of Calcutta, September 2002 – October 2006  
Lecturer, Chemical Technology, University of Calcutta, August 1997 – August 2002  
Lecturer, SIPS, Utkal University, April 1995 – July 1997  
Lecturer, Himalayan Institute of Pharmacy, May 1994 – March 1995

**B) PhD thesis & viva examiner:** Jadavpur University, The West Bengal University of Health Sciences, Maulana Abul Kalam Azad University of Technology, West Bengal State University, Birla Institute of Technology Mesra, Dibrugarh University, Assam, Gauhati University, Assam, Pondicherry University, Puducherry, The Tamil Nadu Dr. M.G.R. Medical University, Chennai, Jawaharlal Nehru Technological University Kakinada, Jawaharlal Nehru Technological University Anantapur, Jawaharlal Nehru Technological University Hyderabad, SRM University, Kattankulathur, Tamil Nadu, Siksha 'O' Anusandhan University, Odisha

**Research Experience:**

**Research interests:** Drug design & development, drug toxicological studies

**Research guidance:**

PhD – Awarded: 19 To be submitted: 2 Working: 8  
M. Tech. – Awarded: 13 To be submitted: 2 MD (Ayurvedic) – Awarded: 9

**Research Projects:** 12 (UGC, SERB, DST, DBT, AICTE, UPE)

**Publications (Only number):**

- a) Journals: 178  
b) Books/ book chapters: 9  
c) Conference/ seminar volumes: 97

**Membership of Learned Societies:** Fellow of Indian Chemical Society, The Asiatic Society, Indian Society for Technical Education, Indian Pharmaceutical Association, Indian Science Congress Association, Indian Association for Cancer Research, Indian Institute of Chemical Engineers, International Society for Computational Biology, Asia-Pacific Chemical, Biological & Environmental Engineering Society

**Invited lectures delivered:** National: 03 International: 08

**List of Journal Publication:** (Last five years)

1. Identification of potential 3CLpro inhibitors-modulators for human norovirus infections through an advanced virtual screening approach, Shovonlal Bhowmick, Tapan Kumar

- Mistri, Mohammad K. Okla, Ibrahim A. Saleh, **Achintya Saha**, Pritee Chunarkar Patil, *Journal of Biomolecular Structure & Dynamics*, (Accepted), **42**, 2024. <http://www.tandfonline.com> (IF: 5.235)
2. Optimization and establishment of laboratory rearing conditions for *Cimex lectularius* L. against variable temperature and relative humidity, Amartya Banerjee, **Achintya Saha**, Parikshit Das, Ajay Kakati, Buddhadeb Saha, Danswring Goyary, Yangchen D. Bhutia, Sanjeev Karmakar, Sumit Kishor, Saidur Rahaman, Pronobesh Chattopadhyay, *Scientific Reports*, (Accepted) **14**, 2024. [www.nature.com/srep](http://www.nature.com/srep) (IF: 4.60)
  3. Identification of potential therapeutic dual inhibitors of EGFR/HER2 in breast cancer, Megha Jethwa, Aditi Gangopadhyay, **Achintya Saha**, *European Journal of Medicinal Chemistry Reports*, 100143, **11**, 2024. <https://www.sciencedirect.com/> (IF: 1.3) (<https://doi.org/10.1016/j.ejmc.2024.100143>)
  4. Raman Spectroscopic Insights of Phase Separated Insulin Aggregates, Sandip Dolui, Anupam Roy, Uttam Pal, Shubham Kundu, Esha Pandit, Bhisma N. Ratha, Ranit Pariary, **Achintya Saha**, Anirban Bhunia, Nakul Maiti, *ACS Physical Chemistry Au*, (Published Online), **4**, 2024. <https://pubs.acs.org> (IF: 2.944) (<https://doi.org/10.1021/acspchemau.3c00065>)
  5. Role of biomarkers and molecular signalling pathways in acute lung injury, Pakter Niri, **Achintya Saha**, Subramanyam Polopalli, Mohit Kumar, Sanghita Das, Pronobesh Chattopadhyay, *Fundamental & Clinical Pharmacology*, (Published Online), **38**, 2024. <https://onlinelibrary.wiley.com> (IF: 2.9) (<https://doi.10.1111/fcp.12987>)
  6. Structure-guided screening of protein-protein interaction for the identification of Myc-Max heterodimer complex modulators, Shovonlal Bhowmick, Kunal Roy, **Achintya Saha**, *Journal of Biomolecular Structure & Dynamics*, (Published Online), **42**, 2024. (IF:5.235)<http://www.tandfonline.com> (<https://doi.org/10.1080/07391102.2023.2294174>)
  7. Investigation of Bio-active Amaryllidaceae Alkaloidal Small Molecules as Putative SARS-CoV-2 Main Protease and Host TMPRSS2 Inhibitors: Interpretation by *in-silico* Simulation Study, Shovonlal Bhowmick, Tapan Kumar Mistri, Mohammad Rizwan Rizwan Khan, Pritee Chunarkar Patil, Rosa Busquets, Abu Md Ashif Ikbal, Ankita Chudhury, Dilip Kumar Roy, Partha Palit, **Achintya Saha**, *Journal of Biomolecular Structure & Dynamics*, (Published Online), **42**, 2024. <http://www.tandfonline.com> (IF: 5.235) (<https://doi.org/10.1080/07391102.2023.2238065>)
  8. Anti-Parkinson potential of Indian *Ocimum* species in relation to active components as revealed using metabolites profiling, *in vitro* and *in silico* enzyme inhibition studies, Sreerupa Sarkar, Jhelam Chatterjee, Aditi Gangopadhyay, Mohammed Sheashea, Mohamed A. Farag, **Achintya Saha**, Susmita Das, Bratati De, *Free Radicals and Antioxidants*, 74-85, **13** (2), 2023. <https://www.antiox.org> (IF: 0.5) (<https://doi.10.5530/fra.2023.2.13>)
  9. Rock Inhibitors as an Alternative Therapy for Corneal Grafting: A Systematic Review, Subramanyam Polopalli, **Achintya Saha**, Pakter Niri, Mohit Kumar, Parikshit Das, Dev Vrat Kamboj, Pronobesh Chattopadhyay, *Journal of Ocular Pharmacology and Therapeutics*, 585–599, **39**(9), 2023. <https://www.liebertpub.com> (IF: 2.3) (doi: <https://doi.org/10.1089/jop.2023.0040>)
  10. Toxicological Evaluation of a Nonlethal Riot Control Combinational Formulation upon Dermal Application Using Animal Models Sanghita Das, **Achintya Saha**, Amartya Banerjee, Danswring Goyary, Sanjeev Karmakar, Sanjal Kumar Dwivedi, Pronobesh Chattopadhyay, *Cutaneous and Ocular Toxicology*, 118-130, **42** (3), 2023. <https://www.tandfonline.com> (IF: 1.974) (doi.org/10.1080/15569527.2023.2220393)
  11. Coomassie brilliant blue G-250 acts as a potential chemical chaperone to stabilize therapeutic insulin, Ranit Pariary, Sandip Dolui, Gourav Shome, Sk Abdul Mohid,

- Achintya Saha**, Bhisma Ratha, Amaravadhi Harikishore, Kuladip Jana, Nakul Maiti, Anirban Bhunia, *ChemComm*, 8095–8098, **52**, 2023. <https://pubs.rsc.org> (IF: 6.065) (doi: <https://doi.org/10.1039/D3CC01791E>)
12. Drug repurposing against the RNA-dependent RNA polymerase domain of dengue serotype 3 by virtual screening and molecular dynamics simulations, Aditi Gangopadhyay, **Achintya Saha**, *Journal of Biomolecular Structure & Dynamics*, 5152–5165, **41 (11)**, 2023. <http://www.tandfonline.com> (IF: 5.235) (doi: 10.1080/07391102.2022.2080764)
  13. Exploring potential non-steroidal aromatase inhibitors for therapeutic application against estrogen dependent breast cancer, Khushboo Pandey, Kiran Bharat Lokhande, **Achintya Saha**, Arvind Goja, K Venkateswara Swamy, Shuchi Nagar, *Current Computer-Aided Drug Design*, 243–257, **19 (4)**, 2023. <https://benthamscience.com> (IF: 1.639) (doi: 10.2174/1573409919666230112170025)
  14. Exploring Allosteric Hits of the NS2B-NS3 Protease of DENV2 by Structure-guided Screening, Aditi Gangopadhyay, **Achintya Saha**, *Computational Biology and Chemistry*, 107876, **104**, 2023. <https://www.journals.elsevier.com> (IF: 3.737) (doi: <https://doi.org/10.1016/j.compbiolchem.2023.107876>)
  15. Genetic algorithm-*de novo*, Molecular Dynamics and MMGBSA based modelling of a novel Benz-pyrazole based anticancer ligand to functionally revert mutant P53 into wild type P53, Ashik Chhetri, Moloy Roy, Puja Mishra, Amit Kumar Halder, Souvik Basak, Aditi Gangopadhyay, **Achintya Saha**, Plaban Bhattacharya, *Molecular Simulation*, 678–689, **49**, 2023. <https://www.tandfonline.com/> (IF: 2.178) (<https://doi.org/10.1080/08927022.2023.2185079>)
  16. Analytical method development for exploring pharmacokinetic profile of ursolic acid in rat tissues by high-performance thin-layer chromatography, Plaban Bhattacharya, **Achintya Saha**, Souvik Basak, *Journal of Planar Chromatography - Modern TLC*, 9–19, **36**, 2023. <http://www.akademai.com> (IF: 1.088) (<https://doi.org/10.1007/s00764-023-00228-1>)
  17. Search for potentially biased epidermal growth factor receptor (EGFR) inhibitors through pharmacophore modelling, molecular docking, and molecular dynamics (MD) simulation approaches, Megha Jethwa, Aditi Gangopadhyay, **Achintya Saha**, *Journal of Biomolecular Structure & Dynamics*, 1681–1689, **41 (5)**, 2023. <http://www.tandfonline.com> (IF: 5.235) (doi: <https://doi.org/10.1080/07391102.2021.2023644>)
  18. “Multi-target QSAR modeling for the identification of novel inhibitors against Alzheimer's disease”, Vinay Kumar, Achintya Saha, Kunal Roy, *Chemometrics and Intelligent Laboratory Systems*, 104734, **233**, 2023. <https://www.journals.elsevier.com> (IF: 4.175) (doi: <https://doi.org/10.1016/j.chemolab.2022.104734>)
  19. Fatty acid  $\beta$ -oxidation targeted metastatic growth inhibition in triple negative breast cancer exploiting biotin-functionalized copolymer, Bhuban Ruidas, Neha Choudhury, Sutapa Som Chaudhury, Tapas Kumar Sur, Sovonlal Bhowmick, **Achintya Saha**, Pritha Das, Priyadarsi De, Chitragada Das, *Authorea*, (Preprint), April 2022. (doi: 10.22541/au.164922125.58119911/v1)
  20. Modelling and Molecular dynamics simulation of novel anticancer ligand for restructuring mutant P53 into wild type, Ashik Chhetri, Moloy Roy, Aditi Gangopadhyay, **Achintya Saha**, Puja Mishra, Amit Kumar Halder, Souvik Basak, *International Journal of Computational Biology and Drug Design*, 77–95, **15 (2)**, 2022. <https://www.inderscience.com> (IF: 0.413) (doi: 10.1504/IJCBD.2022.10051973)
  21. Quercetin: A Silent Retarder of Fatty Acid Oxidation in Breast Cancer Metastasis Through Steering of Mitochondrial CPT1, Bhuban Ruidas, Tapas Kumar Sur, Chitragada Das Mukhopadhyay, Koel Sinha, Sutapa Som Chaudhury, Pramita Sharma,

- Sovonlal Bhowmick, **Achintya Saha**, Rabindranath Majumder, *Breast Cancer*, 748–760, **29 (4)**, 2022. <https://www.springer.com> (IF: 4.329) (<https://doi.org/10.1007/s12282-022-01356-y>)
22. Structure-based identification of Galectin-1 selective modulators in dietary food polyphenols – a pharmacoinformatics approach, Shovonlal Bhowmick, **Achintya Saha**, Sameh Mohamed Osman, Fatmah Ali Alasmay, Tahani Mazyad Almutairi, Md Ataul Islam, *Molecular Diversity*, 1697–1714, **25**, 2022. <http://www.springerlink.com> (IF: 2.060) (doi: 10.1007/s11030-021-10297-1)
  23. Carnosic acid attenuates doxorubicin-induced cardiotoxicity by decreasing oxidative stress and its concomitant pathological consequences, Prasenjit Manna, Saikat Dewanjee, Swarnalata Joardar, Pratik Chakraborty, Hiranmoy Bhattacharya, Shrestha Bhanja, Chiranjib Bhattacharyya, Manas Bhowmik, Shovonlal Bhowmick, **Achintya Saha**, Joydeep Das, Parames C. Sil, *Food and Chemical Toxicology*, (Published online, 113205), **166**, 2022. <https://www.journals.elsevier.com> (IF: 6.023) (doi: <https://doi.org/10.1016/j.fct.2022.113205>)
  24. Identification of bio-active food compounds as potential SARS-CoV-2 PLpro inhibitors-modulators via negative image-based screening and computational simulations, Shovonlal Bhowmick, Nora Abdullah AlFaris, Jozaa Zaidan ALTamimi, Zeid A ALOthman, Pritee Chunarkar Patil, Tahany Saleh Aldayel, Saikh Mohammad Wabaidur, **Achintya Saha**, *Computers in Biology and Medicine*, 105474, **145**, 2022. <https://www.journals.elsevier.com> (IF: 4.589) (doi: <https://doi.org/10.1016/j.compbiomed.2022.105474>)
  25. Exploring CIP2A modulators using multiple molecular modeling approaches, Shovonlal Bhowmick, Kunal Roy, **Achintya Saha**, *Journal of Biomolecular Structure & Dynamics*, 1048–1063, **40 (3)**, 2022. <http://www.tandfonline.com> (IF: 5.235) (doi: 10.1080/07391102.2020.1821781)
  26. Identification of potent food constituents as SARS-CoV-2 papain-like protease modulators through advanced pharmacoinformatics approaches, Shovonlal Bhowmick, **Achintya Saha**, Nora Abdullah AlFaris, Jozaa Zaidan ALTamimi, Zeid A. ALOthman, Tahany Saleh Aldayel, Saikh Mohammad Wabaidur, Md Ataul Islam, *Journal of Molecular Graphics and Modelling*, 108113, **111**, 2022. <http://www.springerlink.com> (IF: 2.060) (<https://doi.org/10.1016/j.jmgm.2021.108113>)
  27. Assessment of toxicological consequences upon acute inhalation exposure to chemically improvised nonlethal riot control combinational formulation (NCF) containing oleoresin capsicum and skatole, Sanghita Das, **Achintya Saha**, Pompy Patowary, Pakter Niri, Danswring Goyary, Sanjeev Karmakar, Pronobesh Chattopadhyay, *Toxicology Research*, 1129–1143, **10 (6)**, 2021. <https://academic.oup.com> (IF: 3.524) doi: 10.1093/toxres/tfab095
  28. Dabrafenib, Idelalisib and Nintedanib Act as Significant Allosteric Modulator for Dengue NS3 Protease, R.V.Sriram Uday, Rajdip Misra, Annaram Harika, Sandip Dolui, **Achintya Saha**, Uttam Pal, V. Ravichandiran, Nakul C Maiti, *PLoS ONE*, e0257206, **16 (9)**, 2021. <https://plos.org> (IF: 3.240) (doi: 10.1371/journal.pone.0257206)
  29. Anti-Alzheimer's Potential of Different Varieties of Piper betle Leaves and Molecular Docking Analyses of Metabolites, Mamita Debnath, Susmita Das, Shovonlal Bhowmick, Swagata Karak, **Achintya Saha**, Bratati De, *Free Radicals and Antioxidants*, 13-18, **11 (1)**, 2021. <https://www.antiox.org> (DOI: <https://doi.org/10.5530/fra.2021.1.3>)
  30. Insight into the Screening of Potential Beta-Lactamase Inhibitors as Anti-Bacterial Chemical Agents through Pharmacoinformatics Study, Pratap Parida, Shovonlal Bhowmick, **Achintya Saha**, Md. Ataul Islam, *Journal of Biomolecular Structure &*



- Dynamics*, 923-942, **39 (3)**, 2021. <http://www.tandfonline.com> (IF: 3.123) (doi: 10.1080/07391102.2020.1720819)
31. Structure-based identification of SARS-CoV-2 main protease inhibitors from anti-viral specific chemical libraries – An exhaustive computational screening approach, Shovonlal Bhowmick, **Achintya Saha**, Sameh Mohamed Osman, Fatmah Ali Alasmay, Tahani Mazyad Almutairi, Md Ataul Islam, *Molecular Diversity*, 1979-1997, **25 (3)**, 2021. <http://www.springerlink.com> (IF: 2.943) (<https://doi.org/10.1007/s11030-021-10297-1>)
  32. Myricitrin, a glycosyloxyflavone in *Myrica esculenta* bark ameliorates diabetic nephropathy via improving glycemic status, reducing oxidative stress, and suppressing inflammation, Tarun K. Dua, Swarnalata Joardar, Pratik Chakraborty, Shovonlal Bhowmick, **Achintya Saha**, Vincenzo De Feo, Saikat Dewanjee, *Molecules*, **258, 26**, 2021. <https://www.mdpi.com/journal/molecules> (IF: 4.411) (doi: 10.3390/molecules26020258)
  33. Mechanistic Studies of the Stabilization of Insulin Helical Structure by Coomassie Brilliant Blue, Sandip Dolui, Ranit Pariary, **Achintya Saha**, Bhisma N Ratha, Amaravathi Harikishore, Susmita Saha, Snehasikta Swarnakar, Anirban Bhunia, Nakul C Maiti, *bioRxiv***267799**, <https://doi.org/10.1101/2020.08.26.267799>
  34. *In silico* modeling for dual inhibition of acetylcholinesterase (AChE) and butyrylcholinesterase (BuChE) enzymes in Alzheimer's disease, Vinay Kumar, **Achintya Saha**, Kunal Roy, *Computational Biology and Chemistry*, 107355, **88**, 2020. <https://www.journals.elsevier.com> (IF: 2.877) (doi: 10.1016/j.compbiolchem.2020.107355)
  35. Cheminformatic modelling of  $\beta$ -amyloid aggregation inhibitory activity against Alzheimer's disease, Vinay Kumar, Probir K Ojha, **Achintya Saha**, Kunal Roy, *Computers in Biology and Medicine*, 103658, **118**, 2020. <https://www.journals.elsevier.com> (IF: 4.589) (doi: 10.1016/j.combiomed.2020.103658)
  36. Pharmacognostical, phytochemical and pharmacological potentials of *Cannabis sativa* L., Sudipta Baroi, **Achintya Saha**, Ritesh Bachar, Sitesh C Bachar, *Asian Journal of Pharmacognosy*, 14-23, **4(2)**, 2020. <http://www.pharmacognosyasia.com>
  37. A Multi-layered Variable Selection Strategy for QSAR Modeling of Butyrylcholinesterase Inhibitors, Binoy Kumar, Priyanka De, Probir Ojha, **Achintya Saha**, Kunal Roy, *Current Topics in Medicinal Chemistry*, 1601-1627, **20 (18)**, 2020. <https://benthamscience.com/journals> (IF: 3.295) (doi: 10.2174/1568026620666200616142753)
  38. Chemometric modeling of structurally diverse carbamates for the inhibition of acetylcholinesterase enzyme (AChE) in Alzheimer's disease, Vinay Kumar, **Achintya Saha**, *International Journal of Quantitative Structure-Property Relationships*, 6-60, **5 (3)**, 2020. [www.igi-global.com](http://www.igi-global.com) (DOI: 10.4018/IJQSPR.2020070102)
  39. Cannabinoid as Potential Aromatase Inhibitor Through Molecular Modeling and Screening for Anti-Cancer Activity, Sudipta Baroi, **Achintya Saha**, Ritesh Bachar, Sitesh C Bachar, *Dhaka Univ. J. Pharm. Sci.*, 47-58, **19 (1)**, 2020. <https://www.banglajol.info/index.php/JPharma> (doi.org/10.3329/dujps.v19i1.47818)
  40. Amelioration from the Ocular Irritant Capsaicin: Development and Assessment of a Capsazepine *in situ* Gel System for Ocular Delivery, Harshita Krishnatreyya, Hemanga Hazarika, **Achintya Saha**, Pronobesh Chattopadhyay, *Expert Opinion on Drug Delivery*, 863–880, **17 (6)**, 2020. <https://www.tandfonline.com/loi/iedd20> (IF: 5.790) (doi: 10.1080/17425247.2020.1754396)
  41. Simultaneous pharmacokinetics estimation of Nateglinide and Pioglitazone by RP-HPLC: Computational study to unlock the synergism, Suddhasattya Dey, Souvik Basak, Anjan De, Shahreja Parvez Alam, Tabassum Hossain, **Achintya Saha**, Manik Ghosh, Tanushree

- Karmakar, *Journal of Chromatographic Science*, 309-322, **58** (4), 2020. <https://academic.oup.com/chromsci> (IF: 1.618) (doi: 10.1093/chromsci/bmz116)
42. Order, Disorder and Re-Order State of Lysozyme: Aggregation Mechanism by Raman Spectroscopy, Sandip Dolui, Animesh Mondal, Anupam Roy, Uttam Pal, Supriya Das, **Achintya Saha**, Nakul Maiti, *The Journal of Physical Chemistry Part B*, 50-60, **124** (1), 2020. <https://pubs.acs.org/journal/jpcbfk> (IF: 2.991) (doi: 10.1021/acs.jpcc.9b09139)
43. Exploring QSAR, docking and pharmacophore mapping for prediction of Beta-secretase 1 (BACE1) inhibitory activity against Alzheimer's disease, Vinay Kumar, Probir Kumar Ojha, **Achintya Saha**, Kunal Roy, *SAR and QSAR in Environmental Research*, 87-133, **31** (2), 2020. <https://www.tandfonline.com> (IF: 3.000) (doi: 10.1080/1062936X.2019.1695226)

### Book Chapters:

1. Application of computation in the biosynthesis of phytochemicals”, Achintya Saha, Megha Jethwa, Aditi Gangopadhyay, Book Chapter In *Computational Phytochemistry*, 2<sup>nd</sup> Edn., ED: Satya D. Sarker and Lutfun Nahar, Elsevier, USA, **Chapter 10**, 321-355, 2024. ISBN: 978-0-443-16102-5. <https://www.elsevier.com>
2. Nanoemulsion Delivery of Herbal Products: Prospects and Challenges, Hemanga Hazarika, Harshita Krishnatreyya, Pronobesh Chattopadhyay, **Achintya Saha**, Yashwant V. Pathak, Md Kamaruz Zaman, Book Chapter In *Nano Medicine and Nano Safety: Recent Trends and Clinical Evidences*, Ed: Malay K. Das, Yashwant V. Pathak, Springer, Singapore, **Chapter 11**, 267-288, 2021. ISBN: 978-981-15-6254-9, <https://doi.org/10.1007/978-981-15-6255-6>, <https://link.springer.com>
3. QSAR and QAAR Studies on Mixtures of 3-(Benzylidene)indolin-2-one Isomers as Leads to Develop PET Radiotracers for Detection of Parkinson's Disease: QSAR and QAAR Studies to Develop PET Radiotracers, Sagar S. Bhayye, **Achintya Saha**, Book Chapter In *Research Anthology on Diagnosing and Treating Neurocognitive Disorders*, Ed: Mehdi Khosrow-Pour IGI Global, Hershey PA (USA), **Chapter 19**, 366-384, 2021. ISBN: 9781799834427, [www.igi-global.com](http://www.igi-global.com)
4. Big Leaf Mahogany seeds: *Swietenia macrophylla* seeds offer possible phytotherapeutic intervention against diabetic pathophysiology, Saikat Dewanjee, Paramita Paul, Tarun K. Dua, Shovonlal Bhowmick, **Achintya Saha**, Book Chapter In *Nuts and Seeds in Health and Disease Prevention*, Ed: Victor R Preedy, Ronald Ross Watson, Second Edition, Academic Press, Elsevier, USA, Section 6 Extracts from Nuts and Seeds in Health, **Chapter 38**, 543-565, 2020. ISBN: 978-0-12-818553-7. <https://www.elsevier.com>
5. Application of computation in the study of biosynthesis of phytochemicals, Nilanjan Adhikari, Sk. Abdul Amin, Tarun Jha, **Achintya Saha**, Book Chapter In *Computational Phytochemistry*, ED: Satya D. Sarker and Lutfun Nahar, Elsevier, USA, **Chapter 9**, 255-276, 2018. ISBN: 978-0-12-812364-5. <https://www.elsevier.com>
6. Structural Insight into the Viral 3C-like Protease Inhibitors: Comparative SAR/QSAR Approaches, Nilanjan Adhikari, Sandip Kumar Baidya, **Achintya Saha**, Nahid Ali, Tarun Jha, Book Chapter 11, In *Viral Proteases and Their Inhibitors*, 1<sup>st</sup> Edn., Ed: S. P. Gupta, Academic Press, USA, p. 317-409, 2017. ISBN: 9780128097120, <https://www.elsevier.com>
7. Design and Development of Matrix Metalloproteinase Inhibitors Containing Zinc-Binding Groups, without Zinc-Binding Groups, and Mechanism-Based, Nilanjan Adhikari, Sandip Kumar Baidya, **Achintya Saha**, Nahid Ali, Tarun Jha, Book Chapter

In *Advances in Studies on Enzyme Inhibitors as Drugs*, Ed: S. P. Gupta, Nova Science Publishers, Inc., Hauppauge, NY, USA, **Vol. 2, Chapter 6, p. 135-207**, 2016. ISBN: 9781536105216, <https://www.novapublishers.com>

8. Design and Development of Some Selective Enzyme Inhibitors for Parkinson's and Alzheimer's Diseases Based on Molecular Modeling and Dynamics Studies, **Achintya Saha**, Sagar S. Bhayye, Tabassum Hossain, Book Chapter In *Advances in Studies on Enzyme Inhibitors as Drugs*, Ed: S. P. Gupta, Nova Science Publishers Inc., Hauppauge, NY, USA, **Vol. 2, Chapter 3, p. 51-89**, 2016. ISBN: 9781536105216, <https://www.novapublishers.com>
9. Ligand and Structure Based Drug Design of Non-Steroidal Aromatase Inhibitors (NSAIs) in Breast Cancer, Tarun Jha, Nilanjan Adhikari, Amit K. Halder, **Achintya Saha**, Book Chapter In *Quantitative Structure-Activity Relationships in Drug Design, Predictive Toxicology, and Risk Assessment*, IGI Global, Pennsylvania (USA), **Chapter 11**, 400-470, 2015. ISBN: 9781466681361, [www.igi-global.com](http://www.igi-global.com)