

CV

Name: Surajit Ghosh
Designation: Professor
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Date of Birth: December 25, 1977

Email: sghosh@iitj.ac.in; sgicb@gmail.com

Education:
1995-1998: BSc. (Chemistry), University of Calcutta, India.
1998-2000: MSc. (Chemistry), University of Calcutta, India.
2004-2008: Ph.D (Chemistry), Indian Institute of Technology Kanpur
2008-2010: Post-Doctoral Study (Cell Biology), European Molecular Biology Laboratory, Heidelberg, Germany

Research Interest: Chemical Biology, Chemical Neuroscience, Drug Discovery, Biosensor

- ✚ Total Number of Publications: **135**
- ✚ Patents Filed/Granted: **21**
- ✚ Book Chapters: **03**
- ✚ Total Citation: **3331**
- ✚ Citation Index: h-index: **31**; i10-index: **84**
- ✚ Technologies / **Products Developed** / Licensed: **Three**
- ✚ **Master Thesis Awarded (9); PhD Awarded (12); PhD Thesis Submitted (3) PhD is in Progress (10); RA Completed/Supervised/Ongoing (6)**

Professional Recognition:

- *Dean - International, Corporate and Alumni Relations (31st January 2022-onwards)*
- *Project Director, iHub Drishti (19.06.2023-06.09.2023)*
- *Associate Editor, Frontiers in Chemistry (Chemical Biology), 2022-Onwards*
- *Editorial Board Member, RSC Advances, 2022-Onwards*
- *Expert Member, Neuroscience, BRICS Meeting, May 25-26, 2021*
- *Board of Directors, JCKIF, a not for profit section 8 company (2021-till date)*
- *Board of Directors, iHub Drishti, section 8 company (2020-Onwards)*
- *Chairman, Steering Committee, Medical Technology Program, IIT Jodhpur (Sep 2021-Aug 2022)*
- *Board Member, IIT Jodhpur (Sep 2019- December2022)*

- *Dean - Research and Development, IIT Jodhpur (Sep 2019-Aug 2022, 14th Jun 2022-31st August 2022)*
- *Special Invitee as PAC Member in SERB (2020)*
- *Expert Member in DST-SERB Ramanujan Fellowship Committee (2019-2022)*
- *Council Member-International Chemical Biology Society (2017)*
- *Associate Editor, Royal Society of Chemistry Advances, UK (2015-2025)*
- *Member-Asian Chemical Biology Initiative (2018)*
- *Elected Fellow of West Bengal Academy of Science and Technology (2019)*
- *Elected Fellow of Royal Society of Chemistry, UK (2016)*
- *Founder Life Member & Joint Secretary-Chemical Biology Society of India*
- *Life Member-Indian Peptide Society*
- *Editorial Board Member-Frontiers in Chemistry (Chemical Biology)*

Professional Experience/Appointments:

February 2023-Till date	Dean-International, Corporate and Alumni relations
August 2019- December 2022	Board Member, IIT Jodhpur
September 2019-August 2022	Dean, Research and Development Indian Institute of Technology Jodhpur
9th July 2019-till date:	Professor, Indian Institute of Technology Jodhpur
March 2018	Visiting Scientist, ISIR, Osaka University, Japan
2015-2025	Associate Editor Royal Society of Chemistry Advances, UK (RSC Advances)
August-October 2012	Visiting Scientist in Rudolph Virchow Centre, University of Wurzburg, Germany
April 2014-8 th July:	Principal Scientist, CSIR-IICB, Kolkata Associate Professor, AcSIR
2012	Visiting Scientist, London Cancer Research Institute, UK
January 2011-2015:	Scientist, Ramanujan Fellow at CSIR-IICB, Kolkata
2011-till date:	Adjunct Faculty, National Institute of Pharmaceutical Education & Research, Kolkata

2011-2014 and 2014-2019:	Assistant Professor and Associate Professor, Academy of Scientific & Innovative Research, Ghaziabad, Uttar Pradesh 201002
July 2008-December 2010:	Postdoctoral Fellow in Cell Biology and Biophysics Unit European Molecular Biology Laboratory, Heidelberg, Germany Postdoctoral Advisor: Dr. Thomas Surrey
January 2001 – July 2004:	Scientist, BIOCON, 20th KM, Hosur Road, Electronics City, Bangalore, India.

Awards/Recognition:

2022-Onwards	Editorial Board Member, RSC Advances
2020	SERB STAR Award
2020	CDRI Awards 2020 for Excellence in Drug Research
2019	Journal of American Chemical Society “Young Investigators Virtual Issue” Award
2019	Elected Fellow, West Bengal Academy of Science and Technology
2018	Asima Chatterjee Young Scientist Award
2017	Syamasri Gupta Memorial Young Scientist Award from Indian Society for Surface Science & Technology
2017	Travel Grant by International Chemical Biology Society for Invited Lecture at Shanghai, China
2017	Young Scientist Award by Indian Peptide Society
2016	Elected Fellow, The Royal Society of Chemistry, UK
2010	Ramanujan Fellowship (2011-2015)
2010	Travel grant by DBT/ Wellcome Trust for attending “EMBO Global Exchange & the Wellcome Trust/DBT India Alliance meeting” at Barcelona
2009-2012	Alexander Von Humboldt Fellowship
2008-2010	EMBL Postdoctoral Fellowship
2007	Travel and Stay Support by BASF Company for attending in International Symposium “BASF Conference on Nanomaterials” in Singapore.

2002

Biocon Tribute award for important contribution
(Biocon India Group)

List of Publications and Patents

Detailed List of Publications (*: Corresponding author; #: Equal contribution):

135. Shubham Garg, Aniket Jana, Juhee Khan, Sanju Gupta, Rajsekhar Roy, Varsha Gupta and **Surajit Ghosh***
Logic “AND Gate Circuit” Based Mussel Inspired Polydopamine Nanocomposite as Bioactive Antioxidant for Management of Oxidative Stress and Neurogenesis in Traumatic Brain Injury
ACS Applied Materials & Interfaces, 2024 (Just Accepted)
(Impact Factor : 9.5)
134. Moumita Jash,# Satyajit Ghosh,# Rajsekhar Roy, Nabanita Mukherjee, Samya Sen and **Surajit Ghosh***
Next Generation Antimitotic β -Carboline Derivatives Modulate Microtubule Dynamics and Downregulate NF- κ B, ERK 1/2 and Phospho HSP 27
Life Sciences, 2024 (Just Accepted)
(Impact Factor : 6.1)
133. Prabir Kumar Gharai, Juhee Khan, Krishnangshu Pradhan, Rathnam Mallesh, Shubham Garg, Mohammad Umar Arshi, Surajit Barman and **Surajit Ghosh***
Power of Dopamine: Multifunctional Compound Assisted Conversion of the Most Risk Factor into Therapeutics of Alzheimer’s Disease
ACS Chemical Neuroscience, 2024, (Just Accepted)
(Impact Factor : 5.0)
132. Nabanita Mukherjee, Satyajit Ghosh, Rajsekhar Roy, Dipro Mukherjee, Samya Sen, Debasmita Nandi, Jayita Sarkar and **Surajit Ghosh***
Extracellular Matrix mimicking Wound Microenvironment Responsive Amyloid-Heparin@TAAGNP Co-assembled Hydrogel-an Effective Conducting Antimicrobial Wound Healing Material
ACS Applied Materials & Interfaces, 2024, (Just Accepted)
(Impact Factor : 9.5)
131. Rathnam Mallesh, Juhee Khan, Prabir Kumar Gharai, Mohammad Umar Arshi, Shubham Garg, Sanju Gupta and **Surajit Ghosh***
Hydrophobic C-terminal Peptide Analog A β 31-41 Protects the Neurons from A β -induced Toxicity
ACS Chemical Neuroscience, 2024, (Just Accepted)
(Impact Factor : 5.0)
130. Samya Sen,# Surojit Ghosh,# Aniket Jana,# Moumita Jash, Satyajit Ghosh, Nabanita Mukherjee, Dipro Mukherjee, Jayita Sarkar and **Surajit Ghosh ***

- Multi-Faceted Antimicrobial Efficacy of a Quinoline-Derived Bidentate Copper (II) Ligand Complex and Its Hydrogel Encapsulated Formulation in Methicillin-Resistant Staphylococcus aureus inhibition and Wound Management
ACS Applied Bio Materials, 2024, (Just Accepted)
(Impact Factor : 4.7)
129. Surojit Ghosh, Mohammad Umar Arshi, Satyajit Ghosh, Moumita Jash, Sudipta Bhattacharya, Nirmal Kumar Rana, Samya Sen, **Surajit Ghosh ***
Discovery of Quinazoline and Quinoline Based Small Molecules as Utrophin Upregulators via AhR Antagonism for the Treatment of Duchenne Muscular Dystrophy
Journal of Medicinal Chemistry, 2024 (Just Accepted)
(Impact Factor : 7.3)
128. Surojit Ghosh, Samya Sen, Moumita Jash, Satyajit Ghosh, Aniket Jana, Rajsekhar Roy, Nabanita Mukherjee, Dipro Mukherjee, Jayita Sarkar and **Surajit Ghosh ***
Synergistic Augmentation of Beta-Lactams: Exploring Quinoline-Derived Amphipathic Small Molecules as Antimicrobial Potentiators Against Methicillin-resistant Staphylococcus aureus"
ACS Infectious Diseases, 2024, 10, 4, 1267-1285
(Impact Factor: 5.3)
127. Sanju Gupta, Juhee Khan, **Surajit Ghosh***.
Molecular Mechanism of Cognitive Impairment Associated with Parkinson's Disease: A Stroke Perspective
Life Sciences, 2024, 337, 1223582023
(Impact Factor :6.1)
126. Varsha Gupta,# Prabir Kumar Gharai,# Chirantan Kar,# Shubham Garg, **Surajit Ghosh***.
Ratiometric Fluorescent Probe Promotes Trans-differentiation of Human Mesenchymal Stem Cells to Neurons.
ACS Chemical Neuroscience Letter 2024, 15, 2, 222–2292
(Impact Factor: 5.0)
125. Nabanita Mukherjee, Debmalya Bhunia, Prabir Kumar Garai, Prasenjit Mondal , Surajit Barman, and **Surajit Ghosh.***
Designed Novel Nuclear Localizing Anticancer Peptide Targets p53 Negative Regulator MDM2 Protein
Journal of Peptide Science 2024, 30, e3535. (Impact Factor: 2.1)
124. Akhil A. Bhosle, Mainak Banerjee, Soumik Saha, Shubham Garg, **Surajit Ghosh** and Amrita Chatterjee*.
An NIR-emissive AIEgen with dual sensing ability: An azine-based chemodosimeter for discriminative ppb-level detection of hydrazine and bisulfite ions
Sensors and Actuators B: Chemical, Volume 397, 2023, 134661
(Impact Factor :8.40)
123. Samya Sen#, Ramkamal Samat#, Moumita Jash, Satyajit Ghosh, Rajsekhar Roy, Nabanita Mukherjee, Surojit Ghosh, Jayita Sarkar and **Surajit Ghosh. ***
Potential Broad-Spectrum Antimicrobial, Wound Healing and Disinfectant Cationic Peptide Crafted from Snake Venom

- Journal of Medicinal Chemistry* 2023, 66, 16, 11555–11572. (Impact Factor: 8.039)
Work highlighted by leading national media outlets like NDTV, India Today, and Times of India (covered by more than 60 news portals nationally and internationally).
122. Tanaya Chatterjee, Gaurav Das, Barun Chatterjee, **Surajit Ghosh** and Pinak Chakrabarti. The Role of Protein-L-Isoaspartyl Methyltransferase (PIMT) in the Suppression of Toxicity of the Oligomeric Form of A β 42, in Addition to the Inhibition of its Fibrillization"
ACS Chemical Neuroscience 2023, 14, 16, 2888–2901. (Impact Factor: 5.0)
121. Nabanita Mukherjee and **Surajit Ghosh**. *
Substance P Derived Extracellular Matrix Mimicking Peptide Hydrogel: A Cytocompatible Biomaterial Platform.
ChemBioChem: A European Journal of Chemical Biology 2023, 24, e202300286.
(Impact Factor: 3.4)
120. Nabanita Mukherjee, Satyajit Ghosh, Jayita Sarkar, Rajsekhar Roy, Debasmita Nandi, and **Surajit Ghosh**.*
Amyloid-Inspired Engineered Multidomain Amphiphilic Injectable Peptide Hydrogel-An Excellent Antibacterial, Angiogenic, and Biocompatible Wound Healing Material
ACS Applied Materials & Interfaces 2023, 15, 28, 33457–33479. (Impact Factor: 9.5)
119. Rathnam Mallesh, Juhee Khan, Prabir Kumar Gharai, Subhajit Ghosh, Shubham Garg, Mohammad Umar Arshi, and **Surajit Ghosh**.*
High-Affinity Fluorescent Probes for Detection of Soluble and Insoluble A β Deposits in Alzheimer's disease.
ACS Chemical Neuroscience 2023, 14, 8, 1459–1473.
118. Rathnam Mallesh, Juhee Khan, Prabir Kumar Gharai, Varsha Gupta, Rajsekhar Roy, and **Surajit Ghosh**.*
Controlling Amyloid Beta (A β) Peptide Aggregation and Toxicity by Protease Stable Ligands
ACS Bio & Med Chem Au. 2023, 3, 2, 158–173.
117. Prabir Kumar Gharai, Juhee Khan, Rathnam Mallesh, Shubham Garg, Abhijit Saha, Subhajit Ghosh and **Surajit Ghosh**.*
Vanillin Benzothiazole Derivative Reduces Cellular ROS and Detects Amyloid Fibrillar Aggregates in Alzheimer's Brain
ACS Chemical Neuroscience, 2023, 14, 4, 773–786. (Impact Factor: 5.78)
116. Rajsekhar Roy, Juhee Khan, Krishnangshu Pradhan#, Prasunpriya Nayak, Ankan Sarkar, Subhadra Nandi, Surojit Ghosh, Heera Ram, and **Surajit Ghosh**.*
Short Peptoid Evolved from Key Hydrophobic Stretch of Amyloid- β 42 Peptide Serve as Potent Therapeutic Lead of Alzheimer's Disease
ACS Chemical Neuroscience, 2023, 14, 2, 246–260. (Impact Factor: 5.78)
115. Varsha Gupta, Tanushree Mahata, Rajsekhar Roy, Prabir Kumar Gharai, Aniket Jana, Shubham Garg and **Surajit Ghosh**.*
Discovery of Imidazole-based GSK3 β Inhibitors for Transdifferentiation of Human Mesenchymal Stem Cells to Neurons: A Potential Single-Molecule Neurotherapeutic Foresight

- Frontiers in Molecular Neuroscience*, 2022, p.678. (Impact Factor: 6.261)
114. Anindyasundar Adak, Gaurav Das, Varsha Gupta, Juhee Khan, Nabanita Mukherjee, Prasenjit Mondal, Rajsekhar Roy, Surajit Barman, Prabir Kumar Gharai, and **Surajit Ghosh**. *
Evolution of Potential Antimitotic Stapled Peptide from Multiple Helical Peptide Stretches of Tubulin Heterodimer Interface: Helix-Mimicking Stapled Peptide Tubulin Inhibitors
Journal of Medicinal Chemistry 2022, 65, 13866–13878. (Impact Factor: 8.039)
113. Akhil A. Bhosle, Mainak Banerjee, Varsha Gupta, **Surajit Ghosh**, Achikanath C Bhasikuttan and Amrita Chatterjee.
Mechanochemical synthesis of AIE-TICT-ESIPT active orange-emissive chemodosimeter for selective detection of hydrogen peroxide in aqueous media and living cells, and solid-phase quantitation using a smartphone
RSC New Journal of Chemistry 2022, 46, 18961-18972. (Impact Factor: 3.98)
112. Rathnam Mallesh, Juhee Khan, Krishnangsu Pradhan, Rajsekhar Roy, Nihar. R. Jana, Parasuraman Jaisankar, **Surajit Ghosh**.*
Design and Development of Benzothiazole-based Fluorescent Probes for Selective Detection of A Aggregates in Alzheimer's Diseases.
ACS Chemical Neuroscience, 2022, 13, 2503–2516. (Impact Factor 5.78)
111. Shivanshu Mishra, Pharyanshu Kachhawa, Prasenjit Mondal, **Surajit Ghosh**, Chaturvedula Triupura, Nidhi Chaturvedi.
AlGaN/GaN HEMT based biosensor for detection of HER2 antigen spiked in human serum
IEEE Transactions on Electron Devices, 2022, 69, 4527-4533. (Impact Factor 2.9).
110. Nabanita Mukherjee, Satyajit Ghosh, Rajsekhar Roy, **Surajit Ghosh**.*
Self-Assembly antimitotic peptide vesicle designed from α,β tubulin heterodimer interface for anticancer drug delivery
Israel Journal of Chemistry, 2022, 62, e202200019, (Impact Factor 4.40).
109. Surajit Barman, Subhajit Ghosh, Rajsekhar Roy, Varsha Gupta, Satyajit Ghosh, **Surajit Ghosh**.*
A Potent Estrogen Receptor and Microtubule Specific Purine-Benzothiazole-based Fluorescent Molecular Probe Induces Apoptotic Death of Breast Cancer Cells.
Nature Scientific Reports, 2022, 12, 10772. (Impact factor 4.37)
108. Satyajit Ghosh, **Surajit Ghosh***
Exosome: The Nano component Trinity as Potential Pathogenic Agent, Disease Biomarker and Neurotherapeutics.
Frontiers in Pharmacology, 2022, 13: 878058. (Mini Review) (Impact Factor 5.8)
107. Development of poly(vinylidene fluoride) graft random copolymer membrane for

- antifouling and antimicrobial applications.”
Mahuya Pakhira, Subhajit Ghosh, **Surajit Ghosh**, Dhruba P. Chatterjee, Arun K. Nandi.
Journal of Industrial and Engineering Chemistry, 2022, 112, 171-181. (Impact Factor: 6.06)
106. In Vitro and In Silico Determinants of HMG-CoA reductase inhibition potential of caffeic acid for therapeutic of hypercholesterolemia
Heera Ram, Chandra Kala, Karishma Sen, Anita Sakarwal, Jaykaran Charan, Paras Sharma, Rajsekhar Roy, **Surajit Ghosh**.
Journal of Applied Pharmaceutical Science, 12(1), 2022
105. Designed Hybrid Anticancer Nuclear Localized Peptide Inhibits Aggressive Cancer Cell Proliferation
Prasanjit Mondal, Saswat Mohapatra, Debmalya Bhunia, Prabir Kumar Gharai, Nabanita Mukherjee, Varsha Gupta, Satyajit Ghosh, **Surajit Ghosh** *.
RSC Medicinal Chemistry, 2022, 13, 196-201. (Impact Factor 3.47).
104. Soumi Sukla, Prasenjit Mondal, Subhajit Biswas,* **Surajit Ghosh**.*
A Rapid and Easy-to-Perform Method of Nucleic-Acid based Dengue Virus Diagnosis using Fluorescence-based Molecular Beacons
Biosensor, 2021, 11(12), 479. (Impact Factor 5.743)
103. Batakrishna Jana, Surajit Barman, Rajsekhar Roy, Gaurav Das, Nabanita Mukherjee, Anindyasundar Adak, **Surajit Ghosh***.
Fluorine Substituted Proline Enhances Tubulin Binding Potential of a Tetrapeptide at GTP Binding Pocket Causing Inhibition of Microtubule Motility and Antimitotic Effect
The Journal of Physical Chemistry B, 2021, 125, 31, 8768–8780. (Impact Factor 2.99)
102. Tanaya Chatterjee, Gaurav Das, **Surajit Ghosh** and Pinak Chakrabarti.
Effect of Gold Nanoparticles on the Structure and Neuroprotective Function of Protein L-isoaspartyl methyltransferase (PIMT)
Nature Scientific Reports 2021, 11, 14296. (Impact factor 4.37)
101. Saswat Mohapatra, Varsha Gupta, Prasenjit Mondal, Shreyam Chatterjee, Debmalya Bhunia, and **Surajit Ghosh**.*
Small Molecule with Bridged Carbonyl and Tri-fluoro-aceto-phenone Groups Impedes Microtubule Dynamics and Subsequently Triggers Cancer Cell Apoptosis
ChemMedChem 2021, 16, 2703-2714. (Impact factor 3.5)
100. Saswat Mohapatra, Gaurav Das, Varsha Gupta, Prasenjit Mondal, Masashi Nitani, Yutaka Ie, Shreyam Chatterjee, Yoshio Aso*, **Surajit Ghosh**.*
Power of organic electron acceptor in modulation of intracellular mitochondrial ROS: Induces JNK and caspase dependent apoptosis of cancer cells"
ACS Omega 2021, 11, 7815–7828. (Impact Factor: 4.13)

99. Jyothi Nair, Saswat Mohapatra, Manu Joseph, Santhi Maniganda, Varsha Gupta, **Surajit Ghosh,*** Kaustabh Maiti*.
Tracking the Foot-prints of Paclitaxel Delivery and Mechanistic Action via SERS Trajectory in Glioblastoma Cells"
ACS Biomater. Sci. Eng. 2020, 6, 9, 5254–5263 (Impact Factor: 4.74).
98. Gaurav Das, Surojit Ghosh, Shubham Garg, Satyajit Ghosh, Aniket Jana, Ramkamal Samat, Nabanita Mukherjee, Rajsekhar Roy, and **Surajit Ghosh.***
Overview of Key Potential Therapeutic Strategies to Combat with the COVID-19 Battle.
RSC Advances 2020, 10, 28243-28266 (Review Article) (Impact Factor: 4.036)
97. Nabanita Mukherjee, Anindyasundar Adak, and **Surajit Ghosh.***
Recent Trends in the Development of Peptide and Protein-based Hydrogel Therapeutics for Healing of CNS Injury.
Soft Matter 2020, 16, 10046-10064 (Review Article) (Impact Factor: 4.046)
96. Krishnangsu Pradhan, Gaurav Das, Chirantan Kar, Nabanita Mukherjee, Juhee Khan, Tanushree Mahata, Surajit Barman, and **Surajit Ghosh***
Rhodamine Based Metal Chelator: A Potent Inhibitor of Metal-Catalyzed Amyloid Toxicity.
ACS Omega 2020, 5, 30, 18958–18967. (Impact Factor: 4.13)
95. Satyajit Ghosh, Shubham Garg, and **Surajit Ghosh.***
Cell-Derived Exosome Therapy: A Novel Approach to Treat Post Traumatic Brain Injury Mediated Neural Injury.
ACS Chem. Neurosci. 2020, 14, 2045–2047. (Viewpoint) (Impact Factor: 4.48)
94. Nabanita Mukherjee and **Surajit Ghosh***
Myelin Associated Inhibitory Proteins as a Therapeutic Target for Healing of CNS injury.
ACS Chem. Neurosci., 2020, 12, 1699–1700. (Viewpoint) (Impact Factor: 4.48)
93. Gaurav Das, Nabanita Mukherjee, **Surajit Ghosh***
Neurological Insights of COVID-19 Pandemic.
ACS Chem. Neurosci. 2020. 11, 9, 1206-1209. (Viewpoint) (Impact Factor: 4.48)
Highlighted in major news media (More than 60 news agencies) such as Times of India, Hindustan Times, The Print, Zee News, ABP News, Rajasthan News, etc. and DST, Government of India. ICMR Inducted Loss of Smell and Taste as Symptom of COVID 19.
Citation: 180
92. Rajsekhar Roy, Krishnangsu Pradhan, Juhee Khan, Gaurav Das, Nabanita Mukherjee, Durba Das, and **Surajit Ghosh.***

- Human Serum Albumin Inspired Glycopeptide-Based Multifunctional Inhibitor of Amyloid- β Toxicity.
ACS OMEGA. 2020, 30, 18628-18641. (Impact Factor: 3.51)
91. Anindyasundar Adak, Gaurav Das, Juhee Khan, Nabanita Mukherjee, Varsha Gupta, Rathnam Mallesh, **Surajit Ghosh***
Extracellular Matrix Mimicking (ECM) Neuroprotective Injectable Sulfo-functionalized Peptide Hydrogel for Repairing Brain Injury.
ACS Biomater. Sci. Eng. 2020, 6, 4, 2287–2296. Highlighted in Cover Page. (Impact Factor: 4.511).
90. Nabanita Mukherjee, Subhadra Nandi, Shubham Garg, Satyajit Ghosh, Surojit Ghosh, Ramkamal Samat, **Surajit Ghosh.***
Targeting Chondroitin Sulfate Proteoglycans: An Emerging Therapeutic Strategy to Treat CNS Injury.
ACS Chemical Neurosci. 2020, 11, 231-232. (Viewpoint) (Impact Factor: 4.48) Highlighted in Cover Page.
89. Pinaki Bhattacharjee, Sourav Chatterjee, Anushree Achari, Abhijit Saha, Debkumar Nandi, Chiranjit Acharya, Kasturi Chatterjee, **Surajit Ghosh**, Snehasikta Swarnakar, Parasuraman Jaisankar.*
A bis-indole/carbazole based C5-curcuminoid fluorescent probe with large Stokes shift for selective detection of biothiols and application to live cell imaging
Analyst (Cambridge, UK), 2020, 145, 1184 – 1189. (Impact Factor: 3.978)
88. Nabanita Mukherjee, Subhadra Nandi, Satyajit Ghosh, Shubham Garg, **Surajit Ghosh.***
3D Microfluidic Platform with Neural Organoids: Model System for Unraveling Synapse.
ACS Chem Neurosci. 2020, 11, 101-102. (Viewpoint) (Impact Factor: 4.48)
87. Tanaya Chatterjee*, Gaurav Das, Barun K. Chatterjee, Jesmita Dhar, **Surajit Ghosh** and Pinak Chakrabarti.*
"The role of isoaspartate in fibrillation and its prevention by Protein-L-isoaspartyl"
BBA-General Subjects, 2020,1864 (3):129500. (Impact Factor: 3.68)
86. Apabrita Ayan Das, Devasmita Chakravarty, Debmalya Bhunia, **Surajit Ghosh**, Prakash C. Mandal, Khawer N. Siddiqui and Arun Bandyopadhyay.*
Elevated level of circulatory sTLT1 induces inflammation through SYK/MEK/ERK signalling in coronary artery disease"
Clinical Science (Lond), 2019, 133, 2283-2299. (Impact Factor: 5.2) Highlighted in Cover Page.
85. Prasenjit Mondal, Rajdeep Chowdhury, Somen Nandi, Md Asif Amin, Kankan Bhattacharyya* **Surajit Ghosh.***

- Probing Deviation of Adhered Membrane Dynamics between Reconstituted Liposome and Cellular System.
Chemistry-An Asian Journal, 2019, 14, 4616-4624. (Impact Factor: 3.692) (Invited)
84. Gaurav Das, Varsha Gupta, Juhee Khan, Deepshikha Mukherjee and **Surajit Ghosh.***
Generation of Neurospheres from Mixed Primary Hippocampal and Cortical Neurons Isolated from E14-E16 Sprague Dawley Rat Embryo" Journal of Visualized Experiments.
JoVE , 2019, 150. Doi: 10.3791/59800. (Impact Factor 1.325)
83. Prasenjit Mondal, Juhee Khan, Varsha Gupta and **Surajit Ghosh.***
In silico Approach for Designing Potent Neuroprotective Hexapeptide.
ACS Chem Neurosci. 2019, 10, 6, 3018-3030. (Impact Factor: 4.48)
82. Surajit Barman, Gaurav Das, Varsha Gupta, Prasenjit Mondal, Krishnangsu Pradhan, Batakrishna Jana, Debmalya Bhunia, Juhee Khan, Deepshikha Mukherjee and **Surajit Ghosh.***
Dual Arm Nanocapsule Targets Neuropilin-1 Receptor and Microtubule: A Potential Nanomedicine Platform.
Mol. Pharmaceutics 2019, 16, 2522-2531. (Impact Factor 4.556)
81. Saswat Mohapatra, Gaurav Das, Chirantan Kar, Masashi Nitani, Yutaka Ie, Yoshio Aso and **Surajit Ghosh.***
Mitochondria Targeted New Blue Light Emitting Fluorescent Molecular Probe.
ACS Omega 2019, 4, 59361-9366. (Impact Factor: 2.87)
80. Anindyasundar Adak, Subhajit Ghosh, Varsha Gupta and **Surajit Ghosh.***
Biocompatible Lipopeptide-Based Antibacterial Hydrogel.
Biomacromolecules, 2019, 20, 5, 1889-1898. (Impact Factor: 6.092)
79. Prasenjit Mondal, Gaurav Das, Juhee Khan, Krishnangsu Pradhan, Rathnam Mallesh, Abhijit Saha, Batakrishna Jana and **Surajit Ghosh.***
Potential Neuroprotective Peptide Emerged from Dual Neurotherapeutic Targets: A Fusion Approach for the Development of anti-Alzheimer's Lead.
ACS Chem Neurosci. 2019, 10, 2609-2620. (Impact Factor: 4.48)
78. Surajit Barman, Gaurav Das, Prasenjit Mondal, Krishnangsu Pradhan, Batakrishna Jana, Debmalya Bhunia, Abhijit Saha, Chirantan Kar, and **Surajit Ghosh.***
Tripodal Molecular Propeller Perturbs Microtubule Dynamics: Indole acts as a Blade and Plays Crucial Role in Anticancer Activity.
Chem. Commun., 2019, 55, 2356-2359. (Impact Factor: 6.5)
77. Gaurav Das and **Surajit Ghosh.***
"Why Microtubule should be Considered as one of the Supplementary Target for Designing Neuro-therapeutics?"

- ACS Chem Neurosci. 2019, 10, 1118-1120. (Impact Factor: 4.48)** (Viewpoint).
76. Tanushree Mahata, Prasenjit Mondal, Debmalya Bhunia, Somen Nandi, Prashant Kurkute, Kankan Bhattacharyya* and **Surajit Ghosh.***
Self-assembly of Antimitotic Peptide at Membranes: Computational and Experimental Investigation.
ACS OMEGA 2019, 4, 1, 745-754. (Impact Factor: 2.87)
75. Surajit Barman, Gaurav Das, Prasenjit Mondal, Krishnangsu Pradhan, Debmalya Bhunia, Juhee Khan, Chirantan Kar, and **Surajit Ghosh.***
Power of Tyrosine Assembly in Microtubule Stabilization and Neuroprotection Fuelled by Phenol Appendages.
ACS Chem Neurosci. 2019, 10, 1506-1516. (Impact Factor: 4.48)
74. Gaurav Das, Varsha Gupta and **Surajit Ghosh.***
Glial-Neuron Transformation by “Chemical Cocktail”.
ACS Chem Neurosci. 2019, 10, 42-43. (Impact Factor: 4.48)
73. Krishnangsu Pradhan, Gaurav Das, Juhee Khan, Varsha Gupta, Surajit Barman, Anindyasundar Adak, and **Surajit Ghosh.***
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2. Title of Book Chapter: **Brain on a Chip**
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