Surajit Ghosh, Ph.D.

Present affiliation (Since July 2019):
Professor, Department of Bioscience & Bioengineering
Affiliated Faculty Member IDRP Smart Healthcare
Indian Institute of Technology Jodhpur
NH 62, Surpura Bypass Road, Karwar, Rajasthan 342030
Phone: +91-9903099747
Webpage: http://home.iitj.ac.in/~sghosh/index.php
E-mail: sghosh@iitj.ac.in ; sgiicb@gmail.com

Research Interest:

Chemical Biology, Chemical Neuroscience, Drug Discovery, Biosensor

Achievement Summary:

- Total Number of Publications: 148
- Patents Filed/Granted: 23/3
- Book Chapters: 03
- Total Citation: 3562
- Citation Index: h-index: 30; i10-index: 95
- Post Doc Supervised (06); PhD Awarded (20); PhD Thesis Submitted (4), Open Seminar Delivered (0), PhD is in Progress (6); Master/Project/MPharm/Medical Students Supervised (18); BTech Supervised (13)

Past Affiliation:

- Adjunct Faculty, NIPER Kolkata (2011-2023)
- Principal Scientist, CSIR-IICB, Kolkata (April 2014-8th July 2019)
- Associate Professor, AcSIR (April 2014-8th July 2019)
- Ramanujan Fellow & Assistant Professor of AcSIR (January 2011-March 2014)
- EMBL Fellow, Heidelberg, Germany
- Alexander von Humboldt Fellow (July 2008-Dec 2010)
- Scientist, Syngene International Pvt. Ltd (BIOCON) (January 2001-June 2004)

Past Administrative Responsibilities (4.5 Years +):

- Dean - International, Corporate and Alumni Relations (31st January 2023- July 2024)
- Dean - Research and Development, IIT Jodhpur (14th Jane 23 – 31st August 2023)
- Dean - Research and Development, IIT Jodhpur (September 2019-August 2022)
- Acting Head, Materials Science and Engineering (12th January 2020-24th January 2020)
- Acting Head, Bioscience and Bioengineering (11th May 2020-10th July 2020)

Personal Details

Date of Birth: 25/12/1977
Familial Status: Married
Nationality: Indian

University Education and University/College Examinations

Period	Name of the institution	Degree	Major Subject Studied/Examined

1995-1998	University of Calcutta	B. Sc.	Chemistry (Hons.)
1998-2000	University of Calcutta	M.Sc.	Chemistry
2004-2008	Indian Institute of Technology Kanpur	Ph.D.	Chemistry

Membership in Scientific Association

1. Founder Life Member -Chemical Biology Society of India
2. Life Member-Indian Peptide Society
3. Life Member, Indian Society for Surface Science & Technology
4. Member, Royal Society of Chemistry
5. Member American Chemical Society-(Membership no 31023738) (2019)
6. Council Member-International Chemical Biology Society (2017)

Member of Important Committees

1. Member, School board- School of life sciences, Central University of Rajasthan, Ajmer, India (2024-2026)
2. Member BoG, IIT Jodhpur (August 2019- December 2022)
3. Project Director, iHub Drishti (19th June 2023-06th September 2023)
4. Associate Editor, Frontiers in Chemistry (Chemical Biology) (2022-Onwards)
5. Editorial Board Member, RSC Advances (2022-Onwards)
6. Expert Member, Neuroscience, BRICS Meeting (25th -26th May, 2021)
7. Expert Member, Technology Development Board- DST, Govt. of India (2024-Till Date)
8. Board of Directors, JCKIF, a not-for-profit section 8 company (2021-14th August 2024)
9. Board of Directors, iHub Drishti, section 8 company (2020-14th August 2024)
10. Board of Directors, Tech Park, IIT Jodhpur (2022- September 2024)
11. Chairman, Steering Committee, Medical Technology Program, IIT Jodhpur (September 2021-August 2022)
12. CPCSEA Approved Member, Institute Animal Ethics Committee, IIT Jodhpur.
13. Special Invitee as PAC Member in SERB (2020)
14. Chairman Technology Knowledge Transfer Group (TKTG), IIT Jodhpur (April 2020)
15. Chairman, Institute Intellectual Property Management Group (IIPMG) (March 2020)
16. Coordinator for COVID 19 Initiative from Institute with PSA Office (April 2020)
17. Chairman, Safety Committee (September 2019-August 2020)
18. Expert Member in DST-SERB Ramanujan Fellowship Committee (2019-2022)
19. Chairman/ Member of LDC, Bioscience and Bioengineering Department (2020)
20. Member, DFB, Bioscience and Bioengineering Department (2020)
21. Member, Campus Service Committee (2020)
22. Chairman, Institute Lecture Committee (2020-2021)
23. Member, Master in Medical Technology Program (2020)

24. Member, Alumni Award (RIYA) Committee (2020)
25. Member, Appraisal Committee of Assistant Professor of BSBE, Chemistry and Chemical Engineering Departments (2020)
26. Member, Faculty selection (screening) committee of BSBE (2020-Till date)
27. Member, Screening Committee of Registrar (2021)
28. Member, Screening Committee of Deputy Registrar (2020)
29. Coordinator, Institute Mega Vaccination Drive (608 Persons) (March-May 2021)
30. Member, Screening Committee of Scientific Officer, Veterinarian for Animal House (2021)
31. Member, Chairman, Animal House (September 2019)
32. Member, Committee for conducting the process for “IIT Jodhpur Institute Awards for Research Excellence" (2019-2023)
33. Member, Financial Planning Committee (2019-2023)
34. Member, Project Steering committee (PSC) towards implementation of e-Office (2019-2023)
35. Member, Ranking Committee (2019-2023)
36. Member, Committee for International Research Mobility Grant (2019-2023)
37. Member, TISC, and Technology Park Coordination Committee (2019-2023)
38. Member, Committee towards space planning and allocation in the Institute (2019-2023)
39. Member, Committee to formulate policy and plans for optimal use and further management / acquisition of High-Cost Equipment acquired through HEFA Loan (2019-2023)
40. Member, Institutional Foundation Day & Convocation Committee (2019-2023)
41. Member, Agreement Evaluation Committee (AEC) (2019-2023)
42. Member, Post Doctoral Fellowship Committee (2019-2023)
43. Member, Committee of the Institute for Investment (2019-2023)
44. Member, Managing Public Private Partnership (PPP) Models of operation at IIT Jodhpur (2019-2023)
45. Member, Governing Board of Technology Innovation Hub for Computer Vision and Virtual Reality, IIT Joddhpur under DST (2019-2023)
46. Member, Planning & budget committee (2019-2023)
47. Chairman, Institutional Biosafety Committee (IBSC) (2019-2023)
48. Convener, Research and Development Management Committee (2019-2023)
49. Associate Editor, Royal Society of Chemistry Advances, UK (2015-2025)
50. Member-Asian Chemical Biology Initiative (2018)
51. Elected Fellow of West Bengal Academy of Science and Technology (2019)
52. Elected Fellow of Royal Society of Chemistry, UK (2016)
53. Editorial Board Member-Frontiers in Chemistry (Chemical Biology)

Key Contributions at IIT Jodhpur in Last 5 Years

1. Fetched 4.45 Crore Grant from BIRAC as BIONEST and established Incubation Center for Start-up at TISC IIT Jodhpur (First BIONEST Project in Rajasthan)
2. Fetched more than 4 Crore and worked for the development of affordable therapeutic lead for Duchenne Muscular Dystrophy in collaboration with AIIMS Jodhpur and DART Bangalore (In

process of initiation of pre-clinical validation after receiving fund)

3. Design and set-up of Animal house at IIT Jodhpur
4. Initiated MedTech Program as well as Ecosystem with AIIMS Jodhpur as coordinator
5. Supported IITJ's growth as Dean (R&D), Dean (IRO, CR, Alumni) and Board of Directors of Section 8 Companies (Tech Park, iHub Drishti and JCKIF)

Organization of Conferences

S. No.	Title	Sponsoring Authority	Type	Organizers	Dates
1	Second Industry Day	IIT Jodhpur	Meeting	R&D IIT Jodhpur	12-13th March 2021
2	Virtual ROADSHOW on Inauguration of BIRAC-BioNEST Incubator @TISC, IIT Jodhpur	BIRAC	Roadshow	BioNEST Team, Surajit Ghosh, Sankalp Pratap	22nd February 2021
3	Virtual Roadshow/Web seminar on *Vigyan se Vikas*-Showcasing Potential, Journey and Impact of Biotechnology on the Society	BIRAC	Roadshow	BioNEST Team, Surajit Ghosh, Sankalp Pratap	28th June 2021

Outreach Activities

1. Social Awareness Program on Duchenne Muscular Dystrophy Disease at IIT Jodhpur, 19-21st September 2021
2. Industry and Alumni Connect, 9th September 2023 at Bangalore
3. Midi Minuit Outreach Program at IIT Jodhpur Campus, 6th-12th November 2023
4. Inauguration of NCR Outreach Centre at INAE Gurgaon Centre, 14th November 2023
5. Alumni Meet at IIT Jodhpur, 21st November 2023
6. One Day Outreach Program with School Children at Chopasani School, 19th December 2023
7. DASHAK, Annual Alumni Meet IIT Jodhpur, 27th -28th January 2024
8. Industry Day, IIT Jodhpur, 31st January-3rd February 2024

Academic/Research Experience/Employment

Period	Name of employer	Place	Position
Jan 2001 – July 2004	BIOCON	20th KM, Hosur Road, Electronics City, Bangalore, India.	Scientist
July 2008-Dec 2010	European Molecular Biology Laboratory, Heidelberg, Germany Postdoctoral Advisor: Dr. Thomas Surrey	Cell Biology and Biophysics Unit, EMBL Heidelberg, Germany	EMBL Post-Doctoral Fellow Alexander von Humboldt Fellow

January 2011-2015	CSIR-IICB	Kolkata, India	Scientist, Ramanujan Fellow
April 2014-July 2019	CSIR-IICB	Kolkata, India	Principal Scientist
2011-2014	Academy of Scientific & Innovative Research	Ghaziabad, Uttar Pradesh	Assistant Professor
2014-2019	Academy of Scientific & Innovative Research	Ghaziabad, Uttar Pradesh	Associate Professor
2011-April 2023	National Institute of Pharmaceutical Education & Research	Kolkata, India	Adjunct Faculty
2012	London Cancer Research Institute	UK	Visiting Scientist
August-October 2012	Rudolph Virchow Centre, University of Wurzburg.	Germany	Alexander von Humboldt Fellow Visiting Scientist
March 2018	ISIR, Osaka University	Japan	Visiting Scientist
9th July 2019-Till Date	Indian Institute of Technology Jodhpur	Karwar, Jodhpur	Professor

Fellowships / Honors / Memberships in Scientific Associations etc.

1. Associate Editor, Royal Society of Chemistry Advances, UK (RSC Advances) (2015-2025)
2. Editorial Board Member, RSC Advances (2022-Onwards)
3. SERB STAR Award (2020)
4. CDRI Awards for Excellence in Drug Research (2020)
5. Journal of American Chemical Society “Young Investigators Virtual Issue” Award (2019)
6. Elected Fellow, West Bengal Academy of Science and Technology (2019)
7. Asima Chatterjee Young Scientist Award (2018)
8. Syamasri Gupta Memorial Young Scientist Award- Indian Society for Surface Science & Technology (2017
9. Travel Grant by International Chemical Biology Society for Invited Lecture at Shanghai, China (2017)
10. Young Scientist Award by Indian Peptide Society (2017)
11. Elected Fellow, The Royal Society of Chemistry, UK (2016)
12. Ramanujan Fellowship (2011-2015)
13. Travel grant by DBT/ Wellcome Trust for attending “EMBO Global Exchange & the Wellcome Trust/DBT India Alliance meeting” at Barcelona (2010)
14. Alexander Von Humboldt Fellowship (2009-2012)
15. EMBL Postdoctoral Fellowship (2008-2010)
16. Travel and Stay Support by BASF Company for attending the International Symposium “BASF Conference on Nanomaterials” in Singapore. (2007)
17. Biocon Tribute Award for an important contribution (Biocon India Group) (2002)

Current Research Interests

- Chemical Neuroscience:
  - Small molecules and peptides for neurogenesis
  - Peptides and peptoids for neuroprotection
  - Neuroprotective hydrogel for traumatic brain injury (TBI)
  - Therapeutic leads for neurodegenerative diseases (AD, PD), and stroke
- Chemical Biology and Drug Discovery:
  - Combination therapy: Hydrogel & nano-formulation
  - Microtubule inhibitors
  - Antimitotic molecules for wound healing
  - Affordable therapeutic lead development for Duchenne Muscular Dystrophy
- Biosensor/Biophysical Platform:
  - Fabrication of Brain- on- Chip platform
  - Dengue Detection Platform
  - Platform for early detection of AD

Expertise: Structural Biology, Cryo-Electron Microscope, Synthetic Organic Chemistry, Chemical Modulator for Controlling Microtubule Dynamics and Function, Neuroprotective Peptides and Peptoids, Cell Penetrating Peptide, Design and Synthesis of Hydrogels, Reconstitution of Cell Like System using Liposome, Fabrication of Chemically Functionalized 2D Micropatterned Surface for Reconstitution of Biological Events and Neuronal Morphology, MD Simulation and Molecular Docking, Nano Formulation and Targeted Drug Delivery, Reconstitution of Kinesin Driven Cargo Transport, Rat Derived Neuron Model (PC12), Mouse Derived Neuron Model (Neuro 2A), Human Derived Neuron Model, Neuroprotection Model, Primary Cortical & Hippocampal Neuron Culture, 3D Cancer Cell Culture and Cancer Stem Cell, Mesenchymal Stem Cell (MSCs) Culture and Transdifferentiation into Neurons, Mouse Melanoma Model, AD/PD and Stroke Model

Grant-in-Aid Projects Handled as Principal Investigator

On-going Projects
1. DBT, *Apta-Sensor Based Microchannel Device for Early Detection of SREBP2/APOε4 Expression in High-Risk Alzheimer's Disease Condition with Type2 Diabetes Mellitus*, Approved, Rs. 79.8 Lakhs
2. BIRAC-BIONEST, (First BIONEST at Rajasthan), "*TISC, IIT Jodhpur Bioincubator*", Ongoing 36 Months + Extension, Rs. 445.5 lakhs
3. SERB, DST IRPHA, *Multimodal Approaches to Develop Potential Therapeutic Leads Targeting Molecular Hotspots of Duchenne Muscular Dystrophy for Clinical trial,* Ongoing 60 Months, June 2020-2025, Rs. 478 lakhs
Completed Projects as a **Principal Investigator**
1. SERB, DST, Ramanujan Fellowship, *Reconstitution of Prion Propagation Pathway with Minimum Components in Liposome vesicles*, Duration 60 months, April 2011-March 2016 Rs. 73 lakhs
2. SERB, DST, *Biomimetic approach to measure in-situ generated force from nucleated microtubules on 2D micropattern surfaces by*, Duration 36 months, September 2014-October 2017, Rs. 47 lakhs
3. SERB, DST, *Development of anti-alzheimer peptide from taxol binding pocket of beta-tubulin*, Duration 42 months, 2016-Jan 2020, Rs. 57.2 lakhs
4. DBT, *Muc1 receptor targeted nano-liposome containing peptide-drug-nanocage for breast cancer and cancer stem cell,* Duration 36 months, March 2017-March 2020, Rs. 129.7 lakhs

5. CSIR Mission Mode Project, *Mission Mode Project on Nanobiosensor for Dengue Virus Detection* Duration 24 Months, March 2018-March 2020, Rs. 283.77 lakhs
6. SERB, DST, *Approach for Repairing of Brain Damage: Small Molecule Mediated Neurogenesis from Stem Cells and Transplantation of Regenerated Neurons through Novel Scaffolds*, Duration 36 Months, March 2020-March 2023, Rs. 278 lakhs
7. Institute SEED Grant, *Fluorescence Probes for Detection of Amyloid Plaque*, Duration 36 Months, September 2019-September 2022, Rs. 25 Lakhs
8. iHub Drishti, IIT Jodhpur, *Capturing dynamics of cellular behaviour using bioinspired tunable soft hydrogel: Development of a bio-imaging based machine learning method to decipher cell fate and morphology*, Duration 30 Months December 2021-2024, Rs. 44 lakhs
9. SERB, DST STAR Award, *Reconstitution of Microenvironment of Brain using Advanced Prototype-based Microfluidic System for Neuro-organoid Culture and Monitoring the Synapse Formation*, Duration 36 Months, February 2021-2024, Rs. 35.4 lakhs

Projects handled as Co-Investigator

Project title: Development of Nanoparticle-based Directed Delivery Systems for Peptide Therapeutics

Duration 36 months, 23.10.2015-22.10.2018, Rs. 74,91,600

Ph. D. Thesis Supervision [Degree awarded 20, Thesis submitted 2, Open seminar given 2, Ongoing 6]

Name of the candidate	Thesis title	Year	Co- supervisor	Current position of the candidate
Dr. Atanu Biswas (CSIR-IICB Kolkata)	Biomolecular assembly in surface and solution	2015	None	Research Scientist at Piramal Pharma Ltd.
Dr. Abhijit Saha (CSIR-IICB Kolkata)	Reconstitution of Alzheimer disease propagation pathway using aβ peptide and its link with cancer	2016	None	PDF, Hebrew University, Israel; Assistant Professor, SRMIST, Tamil Nadu, India.
Dr. Batakrishna Jana (CSIR-IICB Kolkata)	Development of functionalised nanomaterials for delivery of multiple biomolecules into the cell	2016	None	PDF-UNIST South Korea; Ramanujan Fellow, IISER-Kolkata; Assistant Professor, ADAMAS University, Kolkata.
Dr. Prasenjit Mondal (CSIR-IICB Kolkata)	Designing platforms and peptides for monitoring microtubule function and neuroprotection	2015	None	Research Fellow, Massachusetts General Hospital, Harvard Medical School, USA.
Dr. Saswat Mohapatra (CSIR-IICB Kolkata)	Multiple target specific chemical combinations for development of potential anti-cancer therapy	2018	None	PDF, Cedars-Sinai Medical Center, USA.
Dr. Debmalya Bhunia (CSIR-IICB Kolkata)	Understanding protein-protein and protein-peptide interaction and their potential therapeutic applications	2018	None	PDF, Cold Spring Harbour Laboratory, USA.
Dr. Anindyasundar Adak (CSIR-IICB Kolkata)	Design, development, and application of different peptides targeted to different intra-cellular components	2020	None	PDF, University of Birmingham, UK.

Dr. Surajit Barman (CSIR-IICB Kolkata)	Design, Synthesis and Targeted Delivery of Microtubule Binding Molecules	2020	None	Hindustan Petroleum Corporation Limited, India.
Dr. Krisnagshu Pradhan (CSIR-IICB Kolkata)	Development of novel neuroprotective peptoids and hydrogel	2020	None	Service at Government of West Bengal.
Dr. Gaurav Das (CSIR-IICB)	Chemical modulators targeted to mitochondria and microtubule for cancer therapy	2020	None	Faculty, Chittaranjan National Cancer Institute, Kolkata.
Dr. Varsha Gupta (CSIR-IICB Kolkata)	Neurogenic Potential of Imidazole- based Small Molecules	2023	None	PDF, University of Chicago, USA.
Dr. Rathnam Mallesh (NIPER Kolkata)	Small molecule chemical modulators for targetting multiple pathogenesis of alzhimer's diseases: potential strategy to develop anti-alzheimer's therapeutic leads	2023	None	PDF, University of Denver, Colorado, USA.
Dr. Prabir Kumar Garai (CSIR-IICB Kolkata)	Design and development of new small molecule for neurogenesis and cellular imaging	2024	None	PDF, Oklahoma State University, USA.
Dr. Subhajit Ghosh (CSIR-IICB Kolkata)	Bioinspired scaffold and platform for advancement of therapeutic potential of microtubule targeted drug and monitoring microtubule dynamics	2024	None	PDF, Indian Association for Cultivation of Science, Kolkata.
Dr. Nabanita Mukherjee (IIT Jodhpur)	Smart engineered soft biomaterials as advanced healthcare therapeutics	2025	None	PDF, UT Southwestern, USA.
Dr. Juhee Khan (CSIR-IICB Kolkata)	Exploration of the mechanism of action of novel small molecules against oxidative stress generated in various neurological disorders	2025	None	Applied for DST Women Scientist (Maternity Break)
Dr. Surojit Ghosh (IIT Jodhpur)	Smart-engineered small molecule-based potential therapeutic development for duchenne muscular dystrophy	2025	None	Research Scientist, ChemBiotec.; Applied for Brain Pool Scheme, UNIST, South Korea.
Dr. Subhadra Nandi (IIT Jodhpur-MTech-PhD Dual Degree)	Xurography-based microfluidic platform for mimicking neuronal cytoarchitecture and exploring its application in neurodegenerative disease research	2025	None	Still Working at IIT Jodhpur as research Fellow
Dr. Shubham Garg (IIT Jodhpur)	Management of mitochondrial oxidative stress and neurogenesis using bioengineered nanomedicine platform	2025	None	PDF, Cincinnati Children's Hospital.
Dr. Satyajit Ghosh (IIT Jodhpur)	Exploring the potential of cell and tissue derived extracellular vesicle for the development of novel neuro therapeutics for adult neurogenesis	2025	None	Still Working at IIT Jodhpur as research Fellow

Mr. Ramkamal Samat (IIT Jodhpur)	Peptide based therapeutics for antimicrobial resistance and infection	Thesis Submitted	None	Still Working at IIT Jodhpur as research Fellow
Ms. Sanju Gupta (IIT Jodhpur)	Mechanistic insights and potential role of designed neuroprotective molecules for the management of Perkinson's disease and stroke	Thesis Submitted	None	Still Working at IIT Jodhpur as research Fellow
Mr. Rajsekhar Roy (IIT Jodhpur)	Unravelling effects of designed chemical modulators on calcium dyshomeostasis and other factors causing memory impairment in Alzheimer's disease	Thesis Submitted	None	Still Working at IIT Jodhpur as research Fellow
Mr. Aniket Jana (IIT Jodhpur)	Next generation chemical Regulator for neural regeneration: Development of potential neuro-Regenerative medicine	Thesis Submitted	Dr. Prasunpriya Nayak, AIIMS Jodhpur	Still Working at IIT Jodhpur as research Fellow
Ms. Debashmita Nandi (IIT Jodhpur)	Biocompatible hydrogel based Neural tissue engineering Scaffold for sustained delivery of Exogenous neurotrophic factors For the treatment of traumatic Brain injury	Thesis Submission Early 2026)	None	Working at IIT Jodhpur as Senior Research Fellow.
Mr. Md. Umar Arshi (IIT Jodhpur)	Synergistic multidisciplinary approaches in the management of Duchenne Muscular Dystrophy pathophysiology	Thesis Submission End of 2026	None	Working at IIT Jodhpur as Senior Research Fellow
Mr. Amlan Chaini (IIT Jodhpur)	Thesis Title Will be Finalized Soon	Ongoing/ Second Semester	None	Working at IIT Jodhpur as Junior Research Fellow
Mr. Nityananda Biswas (IIT Jodhpur)	Thesis Title Will be Finalized Soon	Ongoing/Second Semester	None	Working at IIT Jodhpur as Junior Research Fellow
Ms. Nishita Gupta (IIT Jodhpur)	Thesis Title Will be Finalized Soon	Ongoing/First Semester	None	Working at IIT Jodhpur as Junior Research Fellow
Mr. Nehal Purohit (IIT Jodhpur)	Thesis Title Will be Finalized Soon	Ongoing/First Semester	None	Working at IIT Jodhpur as Junior Research Fellow

POST-DOCTORAL ASSOCIATES [COMPLETED 6]				
Dr. Gautam Mondal	Postdoctoral Fellow	2012-2013	None	Scientist, San Diego, California, United States
Dr. Chirantan Kar	SERB-NPDF	2017-2018	None	Assistant Professor, Amity University Kolkata
Dr. Soumi Shukla	RA-III, CSIR	2018-2019	None	CHINTA, TCG-CREST NIPER Kolkata
Dr. Sharmistha Naskar	RA-I, CSIR	2018-2019	None	Post-doc, Univ. of Western Ontario, Canada
Dr. Moumita Jash	SERB-NPDF	2021-2024	None	Associate Scientist, Aragen Life Sciences
Dr. Samya Sen	Postdoctoral Fellow	2022-2024	None	Assistant Professor, Techno India, Kolkata
Master/ Medical/MPharm/Project Students [**COMPLETED 18**]				
Ms. Annwesha Kargupta	MTech Project, IITJ	2025-2026	None	Working at IIT Jodhpur
Ms. Aparna Mishra	MTech Project, IITJ	2025-2026	None	Working at IIT Jodhpur
Mr. Moumit Khatua	MTech Project, IITJ	2024-2025	None	Working at IIT Jodhpur
Mr. Dipro Mukherjee	MTech Project, IITJ	2022-2024	None	Research Fellow, IISc Bangalore
Mr. Adel Neyaj	MTech Project Fellow, IITJ	2021-2022	None	Graduate Student NTU Singapore
Dr. Vidya Rani Jha	Medical Post Graduate Trainee-MS, SSKM Hospital	2018	None	Cochbehar Mission Hospital, West Bengal
Dr. Paban Mondal	Medical Post Graduate Trainee-MS, SSKM Hospital	2019	None	Consultant Laparoscopic Surgeon , Laser Surgeon and General Surgeon, West Bengal
Mr. Arijit Bera	SERB Project Fellow	2021-2022	None	Research Fellow, IIT Kharagpur
Mr. Ankan Sarkar	SERB Project Fellow	2020-2021	None	JRF at University Institute of Pharmaceutical Sciences, Panjab University
Mr. Rajat Rathore	SERB Project Fellow	2021	None	Ph.D scholar at Central Drug Research Institute (CDRI) Lucknow
Ms. Tanushree Mahato	CSIR-Fellow	2018-2020	None	Hindustan Petroleum Corporation Limited, India.
Ms. Nabanita Mukherjee	DBT Project Fellow	2017-2019	None	JRF at IIT Jodhpur

Mr. Rajsekhar Roy	MPharm NIPER Kolkata	2018-2019	None	JRF at IIT Jodhpur
Ms. G. N. Pratyusha	MPharm Project Fellow	2018-2019	None	Working at Pharmaceutical Company, Hyderabad
Mr. Rudra Prakash Mahanty	MPharm, NIPER Kolkata	2017-2018	None	Hospital Pharmacist Indian Railways
Ms. Deepshikha Mukherjee	Project Fellow	2018-2019	None	West Bengal Government Service
Mr. Parag Savla	MPharm NIPER Kolkata	2016-2017	None	Assistant Manager at Galaxy Surfactants Limited
Mr. Prashant Kurkute	MPharm NIPER Kolkata	2012-2015	None	PhD at Taiwan University, Assistant Professor at Mumbai
Mr. Sushilratna	MPharm NIPER Kolkata	2012-2013	None	Working at Pharmaceutical Company
Ms. Sumanlatha Mekhala	MPharm NIPER Kolkata	2012-2013	None	Working at Pharmaceutical Company
BTech Students [COMPLETED 13]				
Mr. Shivjeet Bharti	(BTech-IIT Jodhpur)	January-July 2025	None	Final Semester student IIT Jodhpur
Mr. Jarpala Ashok	(BTech-IIT Jodhpur)	January-July 2024	None	Final Semester student IIT Jodhpur
Mr. Yogendra kumar	(BTech-IIT Jodhpur)	January-July 2024	None	Final Semester student IIT Jodhpur
Mr. Aartik Saini	(BTech-IIT Jodhpur)	January-July 2024	None	Final Semester student IIT Jodhpur
Mr. Vishal Baghel	(BTech-IIT Jodhpur)	January-July 2024	None	Final Semester student IIT Jodhpur
Mr. Sourabh Singh	(BTech-IIT Jodhpur)	January-July 2024	None	Final Semester student IIT Jodhpur
Mr. Biyaram Saste	(BTech-IIT Jodhpur)	January-July 2024	None	Final Semester student IIT Jodhpur
Mr. Onkar Singh Rathod	(BTech-IIT Jodhpur)	January-July 2024	None	Final Semester student IIT Jodhpur
Mr. Pratik Goyal	(BTech-IIT Jodhpur)	July 2021-June 2022	None	Software Developer at CoinSwitch
Mr. Pushpank Katare	(BTech-IIT Jodhpur)	July 2021-June 2022	None	Software Developer at Microsoft
Mr. Bai Yashwanth	(BTech-IIT Jodhpur)	July 2021-June 2022	None	Product Manager at ICICI Bank

Ms. Khushi Mulge	(BTech-IIT Jodhpur)	July 2021-June 2022	None	MBA, Indian Institute of Management Sambalpur
Mr. Aman Pratap Singh	(BTech-IIT Jodhpur)	July 2021-June 2022	None	IIT-JEE Faculty at PHYSICS WALLAH
Ms. Nidhi Sharma	(BTech-IIT Jodhpur)	January 2020-July 2020	None	Decision Analytics Associate, ZS Associate

Teaching

1. Biomaterials Engineering (3-0-0) (PG-Core)
2. Principles of Drug Discovery (3-0-0) (UG-Elective)
3. Introduction to Chemical Biology (3-0-0) (PG-Elective)
4. Medicinal Chemistry (3-0-0) (UG-Core with CY)
5. Introduction to Biomaterials Engineering (3-0-0) (UG-Core)
6. Introduction to Bioengineering Lab (3-0-0) (UG-Core)
7. Precision Medicine (3-0-0)
8. Advance Bioengineering (3-0-0)

Annexure I

Total no of Publications (148) & Patents (23: Granted 3, Under review: 20) h Index: 30, Total No of citation ~3562

List of Publications (Published peer-reviewed articles): *: Corresponding author; #: Equal contribution				
No	**Authors' Name**	**Publication Year**	**Title of the Article**	**Journal Name; Volume, Page No**
152.	Devendra Tiwari, Jayashree Roy, Sahely Saha, Rajsekhar Roy, Raviraj Vankayala, **Surajit Ghosh**, Indranil Banerjee*	2025	Carboxymethyl Chitosan Delaminated Ti3C2 MXenes as a Potential Therapeutic Nano Platform to Combat Chronic Wounds.	Chem. Asian J., e00036
151.	Rajsekhar Roy, Moumita Jash, Satyajit Ghosh, Aniket Jana, **Surajit Ghosh***	-	Mediation of Synaptic Plasticity & Memory Consolidation Against Aβ42 Oligomeric Toxicity with Designed Chemical Inhibitor.	Communicated
150.	Shubham Garg#, Aniket Jana#, Sanju Gupta, Mohammad Umar Arshi, Juhee Khan, Prabir Gharai, Rajsekhar Roy, and **Surajit Ghosh***	-	Engineered Neuro-Regenerative Peptide Hydrogel for Directed Neural Lineage Reprograming and Regeneration of Sciatic Nerve Injury.	Communicated
149.	Rajsekhar Roy, Moumit Mohan Khatua, Satyajit Ghosh, Subhadra Nandi, Heera Ram, **Surajit Ghosh***	-	Endogenous Pigment Mimicking Engineered Nanovesicle Targets Extrasynaptic NMDA Receptors Against Ca2+ Mediated Excitotoxicity in Alzheimer's Disease.	Revision requested ACS Appl. Mater. Interfaces
148.	Subhadra Nandi#, Satyajit Ghosh#, Anindyasundar Adak#, Rajsekhar Roy, Arijit Bera, **Surajit Ghosh***	-	Crafting Precision: Design and Fabrication of Xurography-Driven Microfluidic Platform for Exploring Neuron Culture and Targeted Drug Screening.	Just accepted, ACS Chem. Neurosci.

147.	Satyajit Ghosh, Surojit Ghosh, Aniket Jana, Rajsekhar Roy, **Surajit Ghosh***	-	Comprehensive Account of Exosome Isolation from Rat Substantia Nigra for Mass Spectrometry-based Proteomics Study.	Just accepted, Methods, Elsevier
146.	Satyajit Ghosh, Sanju Gupta, Rajsekhar Roy, Nabanita Mukherjee, **Surajit Ghosh***	-	Substantia nigra derived NAPRT+ Extracellular vesicle ameliorates 6-OHDA toxicity via activation of autophagy and induces dopaminergic differentiation of neural stem cell by targeting Wnt/β-catenin signalling.	Under review in PNAS
145	Sanju Gupta, Moumita Jash, Juhee Khan, Shubham Garg, Rajsekhar Roy, Mohammad Umar Arshi, Prasunpriya Nayak, **Surajit Ghosh***	2025	Discovery of Potential Leonurine-Based Therapeutic Lead MJ210 Attenuates Parkinson's Disease Pathogenesis via NF-kB and MAPK Pathways: Mechanistic Insights from In Vitro and In Vivo Rotenone Models.	Eur. J. Med. Chem, 2025, 289, 117471
144	Prabir Gharai, Juhee Khan, Rathnam Mallesh, Shubham Garg, Sanju Gupta, Parasuraman Jaisankar, **Surajit Ghosh***	2025	Discovery of Carbazole and Theophylline-based Amyloid Inhibitor for Promotion of Neuroprotection.	ACS Chem. Neurosci. 2025 (Just Accepted)
143	Dipro Mukherjee, Samya Sen, Aniket Jana#, Surojit Ghosh, Moumita Jash, Monika Singh, Satyajit Ghosh, Nabanita Mukherjee, Rajsekhar Roy, Tamal Dey, Shankar Manoharan and **Surajit Ghosh***, Jayita Sarkar*	2024	Emergence of an Unconventional Enterobacter cloacae-derived Iturin A C-15 as a Potential Therapeutic Agent against Methicillin-Resistant Staphylococcus aureus	Arch. Microbiol. 2024 (Just Accepted)
142	Shubham Garg, Aniket Jana, Sanju Gupta, Mohammad Umar Arshi, Prabir Kumar Gharai, Juhee Khan, Rajsekhar Roy and **Surajit Ghosh***	2024	Discovery of gallic acid-based mitochondriotropic antioxidant attenuates LPS-induced neuroinflammation	Free Radic. Biol. Med 2024, 226, 302-329
141	Aniket Jana#, Shubham Garg#, Satyajit Ghosh, Juhee Khan, Rajsekhar Roy, Nabanita Mukherjee, Moumita Jash, Varsha Gupta, Prasunpriya Nayak and	2024	Generation of Functional Neurons from Mesenchymal Stem Cells Using Neural Differentiator and Engineered Peptide Hydrogel:	ACS Appl. Mater. Interfaces 2024, 16, 47, 64476-64493

	Surajit Ghosh*		Potential Therapeutic Lead for Traumatic Brain Injury	
140	Juhee Khan, Prabir Kumar Gharai, Shubham Garg, Sanju Gupta, Mohammad Umar Arshi, Rathnam Mallesh, **Surajit Ghosh***	2024	Discovery of Powerful Multifaceted Antioxidant for Combating Oxidative Stress Associated with Neurodegenerative Disorders	Acta Pharm. Sin. B. 2024 (Just Accepted)
139	Anindaysundar Adak, Valeria Castelletto, Ian W. Hamley, Jani Seitsonen, Aniket Jana, Satyajit Ghosh, Nabanita Mukherjee, **Surajit Ghosh***	2024	Self-assembly and Wound Healing Activity of Biomimetic Cycloalkane-Based Lipopeptides	ACS Appl. Mater. Interfaces 2024, 16, 58417-5842
138	Subhadra Nandi#, Satyajit Ghosh#, Shubham Garg, **Surajit Ghosh***	2024	Unveiling the Human Brain on a Chip: An Odyssey to Reconstitute Neuronal Ensembles and Explore Plausible Applications in Neuroscience	ACS Chem. Neurosci 2024, 15, 3828-384
137	Satyajit Ghosh, Rajsekhar Roy, Nabanita Mukherjee, Surojit Ghosh, Moumita Jash, Aniket Jana, **Surajit Ghosh***	2024	EphA4 Targeting Peptide-Conjugated Extracellular Vesicles Rejuvenates Adult Neural Stem Cells and Exerts Therapeutic Benefits in Aging Rats	ACS Chemical Neuroscience, 2024, 15, 3482-3495
136	Ramkamal Samat, Samya Sen, Moumita Jash, Satyajit Ghosh, Shubham Garg, Jayita Sarkar, **Surajit Ghosh***	2024	Venom: A Promising Avenue for Antimicrobial Therapeutics	ACS Infect. Dis 2024, 10, 3098-312
135	Shubham Garg, Aniket Jana, Juhee Khan, Sanju Gupta, Rajsekhar Roy, Varsha Gupta, **Surajit Ghosh***	2024	Logic â€œAND Gate Circuitâ€ Based Mussel Inspired Polydopamine Nanocomposite as Bioactive Antioxidant for Management of Oxidative Stress and Neurogenesis in Traumatic Brain Injury	ACS Applied Materials & Interfaces, 2024, 16, 36168-36193
134	Moumita Jash, Satyajit Ghosh, Rajsekhar Roy, Nabanita Mukherjee, Samya Sen**, Surajit Ghosh***	2024	Next Generation Antimitotic β-Carboline Derivatives Modulate Microtubule Dynamics and Downregulate NF-ÎºB, ERK 1/2 and Phospho HSP 27	Life Sciences, 2024, 351, 122836

133	Prabir Kumar Gharai, Juhee Khan, Krishnangshu Pradhan, Rathnam Mallesh, Shubham Garg, Mohammad Umar Arshi, Surajit Barman, **Surajit Ghosh***	2024	Power of Dopamine: Multifunctional Compound Assisted Conversion of the Most Risk Factor into Therapeutics of Alzheimer's Disease	ACS Chemical Neuroscience, 2024, 15, 2470-2483
132	Nabanita Mukherjee, Satyajit Ghosh, Rajsekhar Roy, Dipro Mukherjee, Samya Sen, Debasmita Nandi, Jayita Sarkar, **Surajit Ghosh***	2024	Extracellular Matrix mimicking Wound Microenvironment Responsive Amyloid-Heparin@TAAGNP Co-assembled Hydrogel-an Effective Conducting Antimicrobial Wound Healing Material	ACS Applied Materials & Interfaces, 2024, 16, 30929-30957
131	Rathnam Mallesh, Juhee Khan, Prabir Kumar Gharai, Mohammad Umar Arshi, Shubham Garg, Sanju Gupta, **Surajit Ghosh***	2024	Hydrophobic C-terminal Peptide Analog Aβ31-41 Protects the Neurons from Aβ-induced Toxicity	ACS Chemical Neuroscience, 2024, 15, 2372-2385
130	Samya Sen, Surojit Ghosh, Aniket Jana, Moumita Jash, Satyajit Ghosh, Nabanita Mukherjee, Dipro Mukherjee, Jayita Sarkar**, Surajit Ghosh***	2024	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, 7, 4142-4161
129	Surojit Ghosh, Mohammad Umar Arshi, Satyajit Ghosh, Moumita Jash, Sudipta Bhattacharya, Nirmal Kumar Rana, Samya Sen, **Surajit Ghosh***	2024	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, 67, 11, 9260-9276
128	Surojit Ghosh, Samya Sen, Moumita Jash, Satyajit Ghosh, Aniket Jana, Rajsekhar Roy, Nabanita Mukherjee, Dipro Mukherjee, Jayita Sarkar, **Surajit Ghosh***	2024	Synergistic Augmentation of Beta-Lactams: Exploring Quinoline-Derived Amphipathic Small Molecules as Antimicrobial Potentiators Against Methicillin-resistant Staphylococcus aureus	ACS Infectious Diseases, 10, 4, 1267-1285
127	Sanju Gupta, Juhee Khan, **Surajit Ghosh***	2024	Molecular Mechanism of Cognitive Impairment Associated with Parkinson's Disease: A Stroke Perspective	Life Sciences, 337, 1223582023

126	Varsha Gupta#, Prabir Kumar Gharai#, Chirantan Kar#, Shubham Garg, **Surajit Ghosh***	2024	Ratiometric Fluorescent Probe Promotes Trans-differentiation of Human Mesenchymal Stem Cells to Neurons	ACS Chemical Neuroscience Letter, 15, 2, 222-2292
125	Nabanita Mukherjee, Debmalya Bhunia, Prabir Kumar Garai, Prasenjit Mondal, Surajit Barman, **Surajit Ghosh***	2024	Designed Novel Nuclear Localizing Anticancer Peptide Targets p53 Negative Regulator MDM2 Protein	Journal of Peptide Science, 30, e353
124	Akhil A. Bhosle, Mainak Banerjee, Soumik Saha, Shubham Garg, **Surajit Ghosh**, Amrita Chatterjee*	2023	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, 397, 134661
123	Samya Sen#, Ramkamal Samat#, Moumita Jash, Satyajit Ghosh, Rajsekhar Roy, Nabanita Mukherjee, Surojit Ghosh, Jayita Sarkar, **Surajit Ghosh***	2023	Potential Broad-Spectrum Antimicrobial, Wound Healing and Disinfectant Cationic Peptide Crafted from Snake Venom	Journal of Medicinal Chemistry, 66, 16, 11555-11572
122	Tanaya Chatterjee, Gaurav Das, Barun Chatterjee, **Surajit Ghosh**, Pinak Chakrabarti	2023	The Role of Protein-L-Isoaspartyl Methyltransferase (PIMT) in the Suppression of Toxicity of the Oligomeric Form of Aβ42, in Addition to the Inhibition of its Fibrillization	ACS Chemical Neuroscience, 14, 16, 2888-2901
121	Nabanita Mukherjee, **Surajit Ghosh***	2023	Substance P Derived Extracellular Matrix Mimicking Peptide Hydrogel: A Cytocompatible Biomaterial Platform	ChemBioChem, 24, e202300286
120	Nabanita Mukherjee, Satyajit Ghosh, Jayita Sarkar, Rajsekhar Roy, Debasmita Nandi, **Surajit Ghosh***	2023	Amyloid-Inspired Engineered Multidomain Amphiphilic Injectable Peptide Hydrogel-An Excellent Antibacterial, Angiogenic, and Biocompatible Wound Healing Material	ACS Applied Materials & Interfaces, 15, 28, 33457-3347
119	Rathnam Mallesh, Juhee Khan, Prabir Kumar Gharai, Subhajit Ghosh, Shubham Garg, Mohammad Umar Arshi, **Surajit Ghosh***	2023	High-Affinity Fluorescent Probes for Detection of Soluble and Insoluble Aβ Deposits in Alzheimer's disease	ACS Chemical Neuroscience, 14, 8, 1459-1473

118	Rathnam Mallesh, Juhee Khan, Prabir Kumar Gharai, Varsha Gupta, Rajsekhar Roy, **Surajit Ghosh***	2023	Controlling Amyloid Beta (Aβ) Peptide Aggregation and Toxicity by Protease Stable Ligands	ACS Bio & Med Chem Au, 3, 2, 158-173
117	Prabir Kumar Gharai, Juhee Khan, Rathnam Mallesh, Shubham Garg, Abhijit Saha, Subhajit Ghosh, **Surajit Ghosh***	2023	Vanillin Benzothiazole Derivative Reduces Cellular ROS and Detects Amyloid Fibrillar Aggregates in Alzheimer's Brain	ACS Chemical Neuroscience, 14, 4, 773-786
116	Rajsekhar Roy, Juhee Khan, Krishnangshu Pradhan#, Prasunpriya Nayak, Ankan Sarkar, Subhadra Nandi, Surojit Ghosh, Heera Ram, **Surajit Ghosh***	2023	Short Peptoid Evolved from Key Hydrophobic Stretch of Amyloid-β42 Peptide Serve as Potent Therapeutic Lead of Alzheimer's Disease	ACS Chemical Neuroscience, 14, 2, 246-260
115	Varsha Gupta, Tanushree Mahata, Rajsekhar Roy, Prabir Kumar Gharai, Aniket Jana, Shubham Garg, **Surajit Ghosh***	2022	Discovery of Imidazole-based GSK3β Inhibitors for Transdifferentiation of Human Mesenchymal Stem Cells to Neurons: A Potential Single-Molecule Neurotherapeutic Foresight	Frontiers in Molecular Neuroscience, 2022, p.678
114	Anindyasundar Adak, Gaurav Das, Varsha Gupta, Juhee Khan, Nabanita Mukherjee, Prasenjit Mondal, Rajsekhar Roy, Surajit Barman, Prabir Kumar Gharai, **Surajit Ghosh***	2022	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, 65, 13866-13878
113	Akhil A. Bhosle, Mainak Banerjee, Varsha Gupta, **Surajit Ghosh**, Achikanath C Bhasikuttan, Amrita Chatterjee	2022	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, 46, 18961-18972
112	Rathnam Mallesh, Juhee Khan, Krishnangsu Pradhan, Rajsekhar Roy, Nihar R. Jana, Parasuraman Jaisankar, **Surajit Ghosh***	2022	Design and Development of Benzothiazole-based Fluorescent Probes for Selective Detection of A Aggregates in Alzheimer's Diseases	ACS Chemical Neuroscience, 13, 2503-2516

111	Shivanshu Mishra, Pharyanshu Kachhawa, Prasenjit Mondal, **Surajit Ghosh**, Chaturvedula Triupura, Nidhi Chaturvedi	2022	AlGaN/GaN HEMT based biosensor for detection of HER2 antigen spiked in human serum	IEEE Transactions on Electron Devices, 69, 4527-4533
110	Nabanita Mukherjee, Satyajit Ghosh, Rajsekhar Roy, **Surajit Ghosh***	2022	Self-assembled Antimitotic Peptide Vesicle Designed from α,β-Tubulin Heterodimer Interface for Anticancer Drug Delivery	Israel Journal of Chemistry, 62, e202200019
109	Surajit Barman, Subhajit Ghosh, Rajsekhar Roy, Varsha Gupta, Satyajit Ghosh, **Surajit Ghosh***	2022	A Potent Estrogen Receptor and Microtubule Specific Purine-Benzothiazole-based Fluorescent Molecular Probe Induces Apoptotic Death of Breast Cancer Cells	Scientific Reports, 12, 10772
108	Satyajit Ghosh, **Surajit Ghosh***	2022	Exosome: The Nano component Trinity as Potential Pathogenic Agent, Disease Biomarker and Neurotherapeutics	Frontiers in Pharmacology, 13: 878058
107	Mahuya Pakhira, Subhajit Ghosh, **Surajit Ghosh**, Dhruba P. Chatterjee, Arun K. Nandi	2022	Development of poly(vinylidene fluoride) graft random copolymer membrane for antifouling and antimicrobial applications	Journal of Industrial and Engineering Chemistry, 112, 171-181
106	Heera Ram, Chandra Kala, Karishma Sen, Anita Sakarwal, Jaykaran Charan, Paras Sharma, Rajsekhar Roy, **Surajit Ghosh**	2022	In Vitro and In Silico Determinants of HMG-CoA reductase inhibition potential of caffeic acid for therapeutic of hypercholesterolemia	Journal of Applied Pharmaceutical Science, 12(1)
105	Prasanjit Mondal, Saswat Mohapatra, Debmalya Bhunia, Prabir Kumar Gharai, Nabanita Mukherjee, Varsha Gupta, Satyajit Ghosh, **Surajit Ghosh***	2022	Designed Hybrid Anticancer Nuclear Localized Peptide Inhibits Agressive Cancer Cell Proliferation	RSC Medicinal Chemistry, 13, 196-201
104	Soumi Sukla, Prasenjit Mondal, Subhajit Biswas*, **Surajit Ghosh***	2021	A Rapid and Easy-to-Perform Method of Nucleic-Acid-based Dengue Virus Diagnosis using Fluorescence-based Molecular Beacons	Biosensor, 11(12), 479

103	Batakrishna Jana, Surajit Barman, Rajsekhar Roy, Gaurav Das, Nabanita Mukherjee, Anindyasundar Adak, **Surajit Ghosh***	2021	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, 125, 31, 8768-8780
102	Tanaya Chatterjee, Gaurav Das, **Surajit Ghosh**, Pinak Chakrabarti	2021	Effect of Gold Nanoparticles on the Structure and Neuroprotective Function of Protein L-isoaspartyl methyltransferase (PIMT)	Nature Scientific Reports, 11, 14296
101	Saswat Mohapatra, Varsha Gupta, Prasenjit Mondal, Shreyam Chatterjee, Debmalya Bhunia, **Surajit Ghosh***	2021	Small Molecule with Bridged Carbonyl and Triâ€□fluoroâ€□acetoâ€□phenone Groups Impedes Microtubule Dynamics and Subsequently Triggers Cancer Cell Apoptosis	ChemMedChem, 16, 2703-2714
100	Saswat Mohapatra, Gaurav Das, Varsha Gupta, Prasenjit Mondal, Masashi Nitani, Yutaka Ie, Shreyam Chatterjee, Yoshio Aso*, **Surajit Ghosh***	2021	Power of organic electron acceptor in modulation of intracellular mitochondrial ROS: Induces JNK and caspase dependent apoptosis of cancer cells	ACS Omega, 11, 7815-7828
99	Jyothi Nair, Saswat Mohapatra, Manu Joseph, Santhi Maniganda, Varsha Gupta, **Surajit Ghosh***, Kaustabh Maiti*	2020	Tracking the Foot-prints of Paclitaxel Delivery and Mechanistic Action via SERS Trajectory in Glioblastoma Cells	ACS Biomater. Sci. Eng., 6, 9, 5254-5263
98	Gaurav Das, Surojit Ghosh, Shubham Garg, Satyajit Ghosh, Aniket Jana, Ramkamal Samat, Nabanita Mukherjee, Rajsekhar Roy, **Surajit Ghosh***	2020	Overview of Key Potential Therapeutic Strategies to Combat with the COVID-19 Battle	RSC Advances, 10, 28243-28266
97	Nabanita Mukherjee, Anindyasundar Adak, **Surajit Ghosh***	2020	Recent Trends in the Development of Peptide and Protein-based Hydrogel Therapeutics for Healing of CNS Injury	Soft Matter, 16, 10046-10064

96	Krishnangsu Pradhan, Gaurav Das, Chirantan Kar, Nabanita Mukherjee, Juhee Khan, Tanushree Mahata, Surajit Barman, **Surajit Ghosh***	2020	Rhodamine Based Metal Chelator: A Potent Inhibitor of Metal-Catalyzed Amyloid Toxicity	ACS Omega, 5, 30, 18958-18967
95	Satyajit Ghosh, Shubham Garg, **Surajit Ghosh***	2020	Cell-Derived Exosome Therapy: A Novel Approach to Treat Post Traumatic Brain Injury Mediated Neural Injury	ACS Chem. Neurosci., 14, 2045-2047
94	Nabanita Mukherjee, **Surajit Ghosh***	2020	Myelin Associated Inhibitory Proteins as a Therapeutic Target for Healing of CNS injury	ACS Chem. Neurosci., 12, 1699-1700
93	Gaurav Das, Nabanita Mukherjee, **Surajit Ghosh***	2020	Neurological Insights of COVID-19 Pandemic	ACS Chem. Neurosci., 11, 9, 1206-1209
92	Rajsekhar Roy, Krishnangsu Pradhan, Juhee Khan, Gaurav Das, Nabanita Mukherjee, Durba Das, **Surajit Ghosh***	2020	Human Serum Albumin Inspired Glycopeptide-Based Multifunctional Inhibitor of Amyloid-β Toxicity	ACS Omega, 30, 18628-18641
91	Anindyasundar Adak, Gaurav Das, Juhee Khan, Nabanita Mukherjee, Varsha Gupta, Rathnam Mallesh, **Surajit Ghosh***	2020	Extracellular Matrix Mimicking (ECM) Neuroprotective Injectable Sulfo-functionalized Peptide Hydrogel for Repairing Brain Injury	ACS Biomater. Sci. Eng., 6, 4, 2287-2296
90	Nabanita Mukherjee, Subhadra Nandi, Shubham Garg, Satyajit Ghosh, Surojit Ghosh, Ramkamal Samat, **Surajit Ghosh***	2020	Targeting Chondroitin Sulfate Proteoglycans: An Emerging Therapeutic Strategy to Treat CNS Injury	ACS Chemical Neurosci., 11, 231-232
89	Pinaki Bhattacharjee, Sourav Chatterjee, Anushree Achari, Abhijit Saha, Debkumar Nandi, Chiranjit Acharya, Kasturi Chatterjee, **Surajit Ghosh**, Snehasikta Swarnakar, Parasuraman Jaisankar*	2020	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), 145, 1184-1189
88	Nabanita Mukherjee, Subhadra Nandi, Satyajit Ghosh, Shubham Garg, **Surajit Ghosh***	2020	3D Microfluidic Platform with Neural Organoids: Model System for Unraveling Synapse	ACS Chem. Neurosci., 11, 101-102

87	Tanaya Chatterjee*, Gaurav Das, Barun K. Chatterjee, Jesmita Dhar, **Surajit Ghosh**, Pinak Chakrabarti*	2020	The role of isoaspartate in fibrillation and its prevention by Protein-L-isoaspartyl	BBA-General Subjects, 1864 (3), 129500
86	Apabrita Ayan Das, Devasmita Chakravarty, Debmalya Bhunia, **Surajit Ghosh**, Prakash C. Mandal, Khawer N. Siddiqui, Arun Bandyopadhyay*	2019	Elevated level of circulatory sTLT1 induces inflammation through SYK/MEK/ERK signalling in coronary artery disease	Clinical Science (Lond), 133, 2283-2299
85	Prasenjit Mondal, Rajdeep Chowdhury, Somen Nandi, Md Asif Amin, Kankan Bhattacharyya*, **Surajit Ghosh***	2019	Probing Deviation of Adhered Membrane Dynamics between Reconstituted Liposome and Cellular System	Chemistry-An Asian Journal, 14, 4616-4624
84	Gaurav Das, Varsha Gupta, Juhee Khan, Deepshikha Mukherjee, **Surajit Ghosh***	2019	Generation of Neurospheres from Mixed Primary Hippocampal and Cortical Neurons Isolated from E14-E16 Sprague Dawley Rat Embryo	Journal of Visualized Experiments (JoVE), 150, doi:10.3791/5980
83	Prasenjit Mondal, Juhee Khan, Varsha Gupta, **Surajit Ghosh***	2019	In silico Approach for Designing Potent Neuroprotective Hexapeptide	ACS Chem. Neurosci., 10, 6, 3018-3030
82	Surajit Barman, Gaurav Das, Varsha Gupta, Prasenjit Mondal, Krishnangsu Pradhan, Batakrishna Jana, Debmalya Bhunia, Juhee Khan, Deepshikha Mukherjee, **Surajit Ghosh***	2019	Dual Arm Nanocapsule Targets Neuropilin-1 Receptor and Microtubule: A Potential Nanomedicine Platform	Mol. Pharmaceutics, 16, 2522-2531
81	Saswat Mohapatra, Gaurav Das, Chirantan Kar, Masashi Nitani, Yutaka Ie, Yoshio Aso, **Surajit Ghosh***	2019	Mitochondria Targeted New Blue Light Emitting Fluorescent Molecular Probe	ACS Omega, 4, 59361-9366
80	Anindyasundar Adak, Subhajit Ghosh, Varsha Gupta, **Surajit Ghosh***	2019	Biocompatible Lipopeptide-Based Antibacterial Hydrogel	Biomacromolecules, 20, 5, 1889-1898
79	Prasenjit Mondal, Gaurav Das, Juhee Khan, Krishnangsu Pradhan, Rathnam Mallesh, Abhijit Saha, Batakrishna Jana, **Surajit Ghosh***	2019	Potential Neuroprotective Peptide Emerged from Dual Neurotherapeutic Targets: A Fusion Approach for the Development of anti-Alzheimer's Lead	ACS Chem. Neurosci., 10, 2609-2620

78	Surajit Barman, Gaurav Das, Prasenjit Mondal, Krishnangsu Pradhan, Batakrishna Jana, Debmalya Bhunia, Abhijit Saha, Chirantan Kar, **Surajit Ghosh***	2019	Tripodal Molecular Propeller Perturbs Microtubule Dynamics: Indole acts as a Blade and Plays Crucial Role in Anticancer Activity	Chem. Commun., 55, 2356-2359
77	Gaurav Das, **Surajit Ghosh***	2019	Why Microtubule should be Considered as one of the Supplementary Target for Designing Neuro-therapeutics?	ACS Chem. Neurosci., 10, 1118-1120
76	Tanushree Mahata, Prasenjit Mondal, Debmalya Bhunia, Somen Nandi, Prashant Kurkute, Kankan Bhattacharyya*, **Surajit Ghosh***	2019	Self-assembly of Antimitotic Peptide at Membranes: Computational and Experimental Investigation	ACS Omega, 4, 1, 745-754
75	Surajit Barman, Gaurav Das, Prasenjit Mondal, Krishnangsu Pradhan, Debmalya Bhunia, Juhee Khan, Chirantan Kar, **Surajit Ghosh***	2019	Power of Tyrosine Assembly in Microtubule Stabilization and Neuroprotection Fuelled by Phenol Appendages	ACS Chem. Neurosci., 10, 1506-1516
74	Gaurav Das, Varsha Gupta**, Surajit Ghosh***	2019	Glial-Neuron Transformation by “Chemical Cocktail”	ACS Chem. Neurosci., 10, 42-43
73	Krishnangsu Pradhan, Gaurav Das, Juhee Khan, Varsha Gupta, Surajit Barman, Anindyasundar Adak, **Surajit Ghosh***	2019	Neuro-Regenerative Choline Functionalized Injectable Graphene Oxide Hydrogel Repairs Focal Brain Injury	ACS Chem. Neurosci., 10, 1535-1543
72	Krishnangsu Pradhan, Gaurav Das, Varsha Gupta, Prasenjit Mondal, Surajit Barman, Juhee Khan, **Surajit Ghosh***	2019	Discovery of Neuro-regenerative Peptoid from Amphibian Neuropeptide Inhibits AβToxicity and Crossed Blood-Brain Barrier	ACS Chem. Neurosci., 10, 3, 1355-1368
71	Juhee Khan, Gaurav Das, Varsha Gupta, Saswat Mohapatra, Subhajit Ghosh, **Surajit Ghosh***	2018	Neurosphere Development from Hippocampal and Cortical Embryonic Mixed Primary Neuron Culture: A Potential Platform for Screening Neuro-Chemical Modulator	ACS Chem. Neurosci., 9, 11, 2870-2878

70	Debmalya Bhunia, Krishnangsu Pradhan, Gaurav Das, Subhajit Ghosh, Prasenjit Mondal, **Surajit Ghosh***	2018	Matrix metalloproteinase targeted peptide vesicles for delivering anticancer drugs	Chem. Commun., 54, 9309-9312
69	Krishnangsu Pradhan, Gaurav Das, Prasenjit Mondal, Juhee Khan, Surajit Barman, **Surajit Ghosh***	2018	Genesis of Neuroprotective Peptoid from Aβ30-34 Inhibits AβAggregation and AChE Activity	ACS Chem. Neurosci., 9, 12, 2929-2940
68	Prasenjit Mondal, Varsha Gupta, Gaurav Das, Krishnangsu Pradhan, Juhee Khan, Prabir Kumar Gharai, **Surajit Ghosh***	2018	Peptide-based Acetylcholinesterase Inhibitor Crosses Blood-Brain Barrier and Promotes Neuroprotection	ACS Chem. Neurosci., 9, 2838-2848
67	Somen Nandi S, **Surajit Ghosh***, Kankan Bhattacharyya*	2018	Live Cell Microscopy: A Physical Chemistry Approach	J. Phys. Chem. B, 122, 3023-3036
66	Debmalya Bhunia, Prasenjit Mondal, Gaurav Das, Abhijit Saha, Pallabi Sengupta, Jagannath Jana, Saswat Mohapatra, Subhrangsu Chatterjee, **Surajit Ghosh***	2018	Spatial Position Regulates Power of Tryptophan: Discovery of Major Groove Specific Nuclear Localizing Cell Penetrating Tetrapeptide	J. Am. Chem. Soc., 140, 1697-1714
65	Prasenjit Mondal, Gaurav Das, Juhee Khan, Krishnangsu Pradhan, **Surajit Ghosh***	2018	Crafting of Neuroprotective Octapeptide from Taxol-Binding Pocket of β-Tubulin	ACS Chem. Neurosci., 9, 615-625
64	Batakrishna Jana, Prasenjit Mondal, Abhijit Saha, Anindyasundar Adak, Gaurav Das, Saswat Mohapatra, Prashant Kurkute, **Surajit Ghosh***	2018	Designed Tetrapeptide Interacts with Tubulin and Microtubule	Langmuir, 34, 1123-1132
63	Gaurav Das, Shyamtanu Chattoraj, Somen Nandi, Prasenjit Mondal, Abhijit Saha, Kankan Bhattacharyya*, **Surajit Ghosh***	2017	Probing the conformational dynamics of photosystem I in unconfined and confined spaces	Phys. Chem. Chem. Phys., 20, 449-455

62	Nibedita Nandi, Kousik Gayen, Sandip Ghosh, Debmalya Bhunia, Steven Kirkham, Sukanta Kumar Sen, **Surajit Ghosh**, Ian W. Hamley, Arindam Banerjee*	2017	Amphiphilic Peptide-based Supramolecular, Non-Cytotoxic Stimuli-responsive Hydrogels with Antibacterial Activity	Biomacromolecules, 18, 621-3629
61	Parag Savla, Gaurav Das, Prasenjit Mondal, Rahul Laxman Gajbhiye, Parasuraman Jaisankar, **Surajit Ghosh***	2017	Methanolic Extract of Papaya Leaves Shows Neuroprotective Effect	Chemistry SELECT, 2, 9454-9457
60	Hilal Ahmad Pal, Saswat Mohapatra, Varsha Gupta, **Surajit Ghosh**, Sandeep Verma*	2017	Self-assembling soft structures for intracellular NO release and promotion of neurite outgrowth	Chem. Sci., 8, 6171-6175
59	A Amin, S Nandi, P Mondal, T Mahata, **Surajit Ghosh***, K Bhattacharyya*	2017	Physical Chemistry in a Single Live Cell: Confocal Microscopy	Phys. Chem. Chem. Phys., 19, 12620-12627
58	A Adak, G Das, S Barman, S Mohapatra, D Bhunia, **Surajit Ghosh***	2017	Biodegradable Neuro-Compatible Peptide Hydrogel Promotes Neurite Outgrowth, Shows Significant Neuroprotection, and Delivers Anti-Alzheimer Drug	ACS Appl. Mater. Interfaces, 9, 5067-5076
57	A Saha, S Mohapatra, G Das, B Jana, S Ghosh, D Bhunia, **Surajit Ghosh***	2017	Cancer cell specific delivery of Photosystem I through integrin targeted liposome shows significant anticancer activity	ACS Appl. Mater. Interfaces, 9, 1, 176-188
56	D Bhunia, A Saha, A Adak, G Das, **Surajit Ghosh***	2016	A dual functional liposome specifically targets melanoma cells through integrin and ephrin receptors	RSC Adv., 6, 113487-113491
55	S Ghosh, S Mohapatra, A Thomas, D Bhunia, A Saha, G Das, B Jana**, Surajit Ghosh***	2016	Apoferritin-nanocage delivers combination of microtubule and nucleus targeting anticancer drugs	ACS Appl. Mater. Interfaces, 8, 30824-30832

54	S Chakraborty, G Das, **Surajit Ghosh**, D Mal*	2016	Regioselective synthesis of naphthoquinone/naphthoquinol-carbohydrate hybrids by [4 + 2] anionic annulations and studies on their cytotoxicity	Org. Biomol. Chem., 14, 10636-10647
53	S Nandi, P Mondal, R Chowdhury, A Saha, **Surajit Ghosh***, K Bhattacharyya*	2016	Amyloid Beta Peptide inside a Reconstituted Cell-like Liposomal System: Aggregation, FRET, Fluorescence Oscillations and Solvation Dynamics	Phys. Chem. Chem. Phys., 18, 30444-30451
52	S Mohapatra, A Saha, P Mondal, B Jana, S Ghosh, A Biswas, **Surajit Ghosh***	2017	Synergistic anticancer effect of peptide-docetaxel nano-assembly targeted to tubulin: Towards development of dual warhead containing nanomedicine	Adv. Healthcare Mater., 6, 1600718
51	D Bhunia, S Mohapatra, P Kurkute, S Ghosh, B Jana, P Mondal, A Saha, G Das, **Surajit Ghosh***	2016	Novel Tubulin-targeted Cell Penetrating Antimitotic Octapeptide	Chem. Commun., 52, 12657-12660
50	S Mohapatra, S Nandi, R Chowdhury, G Das, **Surajit Ghosh***, K Bhattacharyya*	2016	Spectral Mapping of 3D Multi-cellular Tumor Spheroid: Time-resolved Confocal Microscopy	Phys. Chem. Chem. Phys., 18, 18381-18390
49	C Ghosh, D Bhunia, S Ghosh, B Jana, **Surajit Ghosh***, K Bhattacharyya*	2016	Fluorescence Probing of Fluctuating Microtubule using a Covalent Fluorescent Probe: Effect of Taxol	Chemistry SELECT, 1, 1841-1847
48	B Jana, S Mohapatra, P Mondal, S Barman, K Pradhan, A Saha, **Surajit Ghosh***	2016	Î±-Cyclodextrin Interacts Close to Vinblastine Site of Tubulin and Delivers Curcumin Preferentially to the Tubulin Surface of Cancer Cell	ACS Appl. Mater. Interfaces, 8, 13793-13803
47	A Adak, S Mohapatra, P Mondal, B Jana, **Surajit Ghosh***	2016	Design of novel microtubule targeted peptide vesicle for delivering different anticancer drugs	Chem. Commun., 52, 7549-7552

46	K Basu, A Baral, S Basak, A Dehsorkhi, J Nanda, D Bhunia, **Surajit Ghosh**, V Castelletto, I W Hamley, A Banerjee*	2016	Peptide based hydrogels for cancer drug release: Modulation of stiffness, drug release and proteolytic stability of hydrogels by incorporating D-amino acid residue(s)	Chem. Commun., 52, 5045-5048
45	J B. Nair, M M Joseph, S Mohapatra, M. Safeera, **Surajit Ghosh***, T. T. Sreelekha*, K K Maiti*	2016	A Dual-Targeting Octaguanidine-Doxorubicin Conjugate Transporter for Inducing Caspase-Mediated Apoptosis on Folate-Expressing Cancer Cells	ChemMedChem, 11
44	S Chattoraj, M A Amin, S Mohapatra, **Surajit Ghosh***, K Bhattacharyya*	2016	Cancer Cell Imaging by In Situ Generated Gold Nano-clusters	ChemPhysChem, 17, 61-68
43	S Chattoraj, M A Amin, B Jana, S Mohapatra, **Surajit Ghosh***, K Bhattacharyya*	2016	Selective Killing of Breast Cancer Cells by Doxorubicin Loaded Fluorescent Gold Nano-Cluster: Confocal Microscopy and FRET	ChemPhysChem, 17, 253-9
42	A Saha, S Mohapatra, P Kurkute, B Jana, J Sarkar, P Mondal, **Surajit Ghosh***	2015	Targeted delivery of novel peptide-docetaxel conjugate to MCF-7 cell through Neuropilin-1 receptor: Reduced toxicity and enhanced efficacy of docetaxel	RSC Adv., 5, 92596-92601
41	D Bhunia, R Chowdhury, K Bhattacharyya*, **Surajit Ghosh***	2015	Fluorescence Fluctuation of Antigen-Antibody Complex: Circular Dichroism, FCS and smFRET of Enhanced GFP and its Antibody	Phys. Chem. Chem. Phys., 17, 25250-25259
40	A Biswas, P Kurkute, S Saleem, B Jana, S Mohapatra, P Mondal, A Adak, S Ghosh, A Saha, D Bhunia, S C Biswas, **Surajit Ghosh***	2015	Novel Hexapeptide Interacts with Tubulin and Microtubules, Inhibits Aβ Fibrillation, and Shows Significant Neuroprotection	ACS Chem. Neurosci., 6, 1309-1316
39	B Jana, J Sarkar, P Mondal, S Barman, S Mohapatra, D Bhunia, K Pradhan, A Saha, A Adak, S Ghosh, **Surajit Ghosh***	2015	A short GC rich DNA derived from microbial origin targets tubulin/microtubule and induces apoptotic death of cancer cell	Chem. Commun., 51, 12024-12027

38	P Mondal, S Chattoraj, R Chowdhury, D Bhunia, **Surajit Ghosh***, K Bhattacharyya*	2015	Direct Observation of Growth and Shrinkage of Microtubules by Single Molecule Forster Resonance Energy Transfer	Phys. Chem. Chem. Phys., 17, 6687
37	A Saha, S Mohapatra, P Kurkute, B Jana, **Surajit Ghosh***	2015	Interaction of Aβ peptide with tubulin causes inhibition of tubulin polymerization and apoptotic death of MCF-7 cells	Chem. Commun., 51, 2249-2252
36	J B Nair, S Mohapatra, **Surajit Ghosh***, K K Maiti*	2015	Novel Lysosome Targeted Molecular Transporter Built on Guanidinium-Poly-(propylene imine) Hybrid Dendron for Efficient Delivery of Doxorubicin Into Cancer Cells	Chem. Commun., 51, 2403-2406
35	S Roy, A Baral, R Bhattacharjee, B Jana, A Datta, **Surajit Ghosh**, A Banerjee*	2015	Emission Tuning of Fluorescent Gold Clusters from Blue to NIR, Structural Analysis of the Blue Emitting Au7 Cluster and Cell-Imaging by the NIR Gold Cluster	Nanoscale, 7, 1912-1920
34	B Jana, A Biswas, S Mohapatra, A Saha, **Surajit Ghosh***	2014	Single functionalized graphene oxide reconstitutes kinesin mediated intracellular cargo transport, delivers multiple cytoskeleton proteins and therapeutic molecule into the cell	Chem. Commun., 50, 11595-11598
33	A Ghosh, R K Kar, J Jana, A Saha, B Jana, J Krishnamoorthy, D Kumar, **Surajit Ghosh***, S Chatterjee*, A Bhunia*	2014	Indolicidin Targets Duplex DNA: Structural and Mechanistic Insight through a Combination of Spectroscopy and Microscopy	ChemMedChem, 9, 2052-2058
32	R Chowdhury, A Saha, A K Mandal, B Jana, **Surajit Ghosh***, K Bhattacharyya*	2015	Excited State Proton Transfer in the Lysosome of Live Lung Cells: Normal and Cancer Cell	J. Phys. Chem. B, 119, 2149-2156
31	S Khanna, B Jana, A Saha, P Kurkute, **Surajit Ghosh***, S Verma*	2014	Targeting Cytotoxicity and Tubulin Polymerization by Metal-Carbene Complexes on a Purine Tautomer Platform	Dalton Transactions, 43, 9838-9842

30	R Chowdhury, B Jana, A Saha, **Surajit Ghosh***, K Bhattacharyya*	2014	Confocal Microscopy of Cytoplasmic Lipid Droplets in a Live Cancer Cell: Number, Polarity, Diffusion and Solvation Dynamics	MedChemComm., 5, 536-539
29	A Biswas, P Kurkute, B Jana, A Laskar, **Surajit Ghosh***	2014	Amyloid inhibitor octapeptide forms amyloid type fibrous aggregate and affect in microtubule motility	Chem. Commun., 50, 2604-2607
28	A Baral, S Roy, A Dehsorkhi, I W Hamley, S Mohapatra, **Surajit Ghosh**, A Banerjee*	2014	Assembly of an Injectable Non-Cytotoxic Peptide-based Hydrogelator for Sustained Release of Drugs	Langmuir, 30, 929-936
27	A Biswas, A Saha, D Ghosh, B Jana, **Surajit Ghosh***	2014	Co- and distinct existence of Tris-NTA and biotin functionalities on individual and adjacent micropatterned surfaces generated by photo-destruction	Soft Matter, 10, 2341-2345
26	I Chakraborty, A Saha, **Surajit Ghosh***	2013	Fabrication of Biotin functionalised SiO2 EM grid for studying biotin tagged biomolecules	Special IJCA issue: 'Complex Chemical Systems, 52A, 1026-1030
25	B Jana, G Mondal, A Biswas, I Chakraborty, A Saha, P Kurkute, **Surajit Ghosh***	2013	Dual functionalised graphene oxide serves as a carrier for delivering oligo-histidine and biotin tagged biomolecules into cell	Macromol. Biosci., 13, 1478-1484
24	J Jana, R K Kar, A Ghosh, A Biswas, **Surajit Ghosh***, A Bhunia*, S Chatterjee*	2013	Human Cathelicidin Peptide LL37 Binds Telomeric G-Quadruplex	Mol. Biosyst., 9, 1833-1836
23	Saha, Abhijit; Mondal, Goutam; Sato, Takeshi; **Ghosh, Surajit**	2013	In vitro reconstitution of a cellular like environment using liposome for Aβ peptide aggregation, its propagation, peptide-lipid interaction and drug screening	Peptide Science, 50th, 109-110

22	B Jana, G Mondal, A Biswas, I Chakraborty, **Surajit Ghosh***	2013	Functionalised TiO2 nanoparticles deliver oligo-histidine and avidin tagged biomolecules simultaneously into the cell	RSC Adv., 3, 8215-8219
21	A Saha, G Mondal, A Biswas, I Chakraborty, B Jana, **Surajit Ghosh***	2013	In vitro reconstitution of a cellular like environment using liposome for amyloid beta peptide aggregation and its propagation	Chem. Commun., 49, 6119-6121
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19	A Biswas, A Saha, B Jana, P Kurkute, G Mondal, **Surajit Ghosh***	2013	Facile generation of biotin micropatterned surface by photo destruction serves as a novel platform for microtubule organisation and DNA hybridisation	ChemBioChem, 14, 689-694
18	**Surajit Ghosh**, L Adler-Abramovich, E Gazit*, S Verma*	2013	Spacer driven morphological twist in Phe-Phe dipeptide conjugates	Tetrahedron, 69, 2004-2009
17	**Surajit Ghosh**, C Hentrich, T Surrey*	2013	Micropattern-Controlled Local Microtubule Nucleation, Transport, and Mesoscale Organization	ACS Chem. Biol., 8, 673-678
16	V Chandrasekhar*, L Nagarajan, S Hossain, K Gopal, **Surajit Ghosh**, S Verma	2012	Multicomponent Assembly of Anionic and Neutral Decanuclear Copper(II) Phosphonate Cages	Inorg. Chem., 51, 5605-5616
15	S Mondal, **Surajit Ghosh**, S Verma*	2010	Bottom-up Synthesis of Ferrocenylated Soft Spherical Structures: Ultrastructural Characterization and Electroresponsitivity	Tet. Lett., 51, 856-859

14	Maniraj Bhagawati, **Surajit Ghosh**, Thomas Surrey, Jacob Piehler	2010	Functional protein micropatterning for guided transport by molecular motors	Abstracts of Papers, 239th ACS National Meeting, San Francisco, CA, United States, March 21-25, 2010 (2010), COLL-251
13	M Bhagawati, **Surajit Ghosh**, A Reichel, K Froehner, T Surrey, J Piehler*	2009	Organization of motor proteins into functional micropatterns fabricated by a photo-induced Fenton reaction	Angew. Chem. Int. Ed., 48, 9188-9191
12	V Chandrasekhar*, L Nagarajan, R Clérac, **Surajit Ghosh**, T Senapati, S Verma	2008	Barrel- and Crown-Shaped Dodecanuclear Copper(II) Cages Built from Phosphonate, Pyrazole, and Hydroxide Ligands	Inorg. Chem., 47, 5347-5354
11	Surajit Ghosh, S Verma*	2008	Solvent mediated morphological transformation of peptide-based soft structures	Tetrahedron, 64, 1250-1256
10	V Chandrasekhar,* R Azhakar, T Senapati, P. Thilagar, **Surajit Ghosh**, S Verma, R Boomishankar, A Steiner, P Kögerler	2008	Synthesis, structure, magnetism and nuclease activity of tetranuclear copper(II) phosphonates containing ancillary 2,2'-bipyridine or 1,10-phenanthroline ligands	Dalton Transactions, 2008, 1150-1160
9	V Chandrasekhar,* L Nagarajan, R Clérac, **Surajit Ghosh**, S Verma	2008	A Distorted Cubic Tetranuclear Copper(II) Phosphonate Cage with a Double-Four-Ring-Type Core	Inorg. Chem., 47, 1067-1073
8	**Surajit Ghosh**, A Mukherjee, P J. Sadler,* S Verma*	2008	Periodic Iron Nanomineralization in Human Serum Transferrin Fibrils	Angew. Chem. Int. Ed., 47, 2217-2221
7	**Surajit Ghosh**, S Verma*	2008	Templated growth of hybrid structures at peptide-peptide interface	Chem. Eur. J., 14, 1415-1419
6	**Surajit Ghosh**, P Singh, S Verma*	2008	Morphological Consequences of Metal ion-Peptide Vesicle Interaction	Tetrahedron, 64, 1250-1256
5	S Verma,* K. B. Joshi, **Surajit Ghosh**	2007	Peptide-based soft materials as potential drug delivery vehicles	Curr. Med. Chem., 3, 605-611

4	**Surajit Ghosh**, S K Singh, Sandeep Verma*	2007	Self-assembly and potassium ion triggered disruption of peptide-based soft structures	Chem. Commun., 22, 2296-2298
3	**Surajit Ghosh**, S Verma*	2007	Phased Fiber Growth in a Peptide Conjugate: Aggregation and Disaggregation Studies	J. Phys. Chem. B, 111, 3750-3757
2	**Surajit Ghosh**, Sandeep Verma*	2007	Metalated peptide fibers derived from a natural metal-binding peptide motif	Tet. Lett., 48, 2189-2192
1	**Surajit Ghosh**, M Reches, E Gazit,* S Verma*	2007	Bioinspired design of nanocages by self-assembling triskelion peptide elements	Angew. Chem. Int. Ed., 46, 2002-2004

Book Chapter (03):

Sl No	Title of the Chapter	Publisher	Title of the Book	Year/ Page	Names of Authors
1	Facile method of tubulin purification from goat brain for reconstitution of microtubule associated intracellular function.	Springer-Verlag New York Inc.	Microtubules: Methods and Protocols	17th March 2022/ 17-45	Satyajit Ghosh, Shubham Garg, Nabanita Mukherjee, and **Surajit Ghosh**
2	BRAIN-ON-A-CHIP	Springer Nature Singapore	Microfluidics and multi organs on chip	12th July 2022/ 475-493	Subhadra Nandi, Satyajit Ghosh, Shubham Garg, Ankan Sarkar and **Surajit Ghosh**
3	ORGAN ON A CHIP FOR MULTIANALYTE MONITORING	Academic Press	Human Organs-on-a-Chip Technology	21st June 2024/ 285-308	Shubham Garg, Arijit Bera, Rajsekhar Roy, Satyajit Ghosh and **Surajit Ghosh**

List of Patents (23):

Sl No	Title	Country	Filed on (Date)	(Date) Granted	Names of inventors
1	Rapid dengue virus detection system PCT/IN2021/050432.	International (PCT)	2021	Published (2021)	Biswas Subhajit, **Ghosh Surajit**, Soumi Sukla, Prasenjit Mondal
2	Hexapeptide for neuroprotection against a beta toxicity US 20170253631 A1 20170907	USA	2015	Granted (2017-09-07)	**Ghosh Surajit**, Biswas Atanu, Jana Batakrishna, Mohapatra Saswat, Biswas Subhas Chandra, Saleem Suraiya, Mondal Prasenjit, Adak Anindyasundar, Ghosh Subhajit, Saha Abhijit.
3	A LDV peptide liposomal formulation of Photosystem-1 for treatment of cancer IN 201611034058 A 20180406	India	2016	Granted (2018-04-06)	**Ghosh Surajit**, Saha Abhijit, Ghosh Subhajit, Mohapatra Saswat, Jana Batakrishna, Bhunia Debmalya
4	Small Molecule-Based Therapy for Cognitive Impairment in Alzheimer's Disease IN 202411042591.	India	2024	-	**Ghosh Surajit**, Roy Rajsekhar, Jash Moumita, Ghosh Satyajit, Mukherjee Nabanita, Ghosh Surojit
5	Next Generation Chemical Modulator for Neural Regeneration: Development of Potential Neuro-regenerative Lead for Traumatic Brain Injury IN 202411075354	India	2024	-	**Ghosh Surajit**, Jana Aniket, Garg Shubham, Ghosh Satyajit, Ghosh Surojit, Roy Rajsekhar
6	Composition of various small molecules for the treatment of Duchene Muscular Dystrophy IN 202411000547	India	2024	-	**Ghosh Surajit**, Rana Nirmal Kumar, Bhattacharyya, Shastry Arun, Jain Anshul, Yadav Vinay Kumar, Ghosh Surojit
7	Novel nuclear localizing peptides for homeostatic control of memory consolidation IN 202411035886	India	2024	-	**Ghosh Surajit**, Roy Rajsekhar, Ghosh Satyajit, Jash Moumita
8	Short Cell Penetrating Peptide Conjugated Antisense Oligonucleotides: A Potential therapeutic tool for the smart delivery of	India	2024	-	**Ghosh Surajit**, Ghosh Surojit, Shastry Arun, Arshi Mohammad Unar, Ghosh Satyajit, Jash Moumita, Mukherjee

	oligonucleotides for the treatment of Duchenne Muscular Dystrophy IN 202411032223				Nabanita, Jana Aniket
9	A self-assembling anionic peptide-based biocompatible, antibacterial, hydrogel platform with vision based wound healing predictability IN 202311068152	India	2023	-	**Ghosh Surajit**, Chaudhury Santanu, Mukherjee Nabanita, Pareek Vishakha, Sen Samya, Bairagi Manas Kumar
10	Quinoline-derived small molecules SG-B-22 and SG-B-52 as beta-lactam adjuvants IN 202311054071	India	2023	-	**Ghosh Surajit**, Ghosh Surojit, Sen Samya, Jash Moumita, Roy Rajsekhar, Jana Aniket, Ghosh Satyajit, Mukherjee Nabanita, Sarkar Jayita
11	Peptide functionalized cell derived engineered exosome as neurotherapeutics IN 202311086650	India	2023	-	**Ghosh Surajit**, Ghosh Satyajit, Roy Rajsekhar, Mukherjee Nabanita, Jash Moumita, Ghosh Surojit, Jana Aniket
12	Development of novel utrophin upregulators for the treatment of Duchenne Muscular Dystrophy IN 202311028857	India	2023	-	**Ghosh Surajit**, Ghosh Surojit, Umar Arshi Mohammad, Ghosh Satyajit, Rana Nirmal, Bhattacharya Sudipta
13	Antibacterial Hydrogel as Biocompatible Wound Healing Material and its Process of Manufacture IN 202211032081	India	2022	-	**Ghosh Surajit**, Mukherjee Nabanita, Ghosh Satyajit, Roy Rajesekhar
14	SP1V3_1: a cationic synthetic peptide with broad-spectrum antibacterial activity IN 202211052566	India	2022	-	**Ghosh Surajit**, Samat Ramkamal, Sen Samya, Jash Moumita
15	An engineered multi-domain peptide-based antibacterial biomaterial and its process of manufacture IN 202211032081	India	2022	-	**Ghosh Surajit**, Mukherjee Nabanita, Ghosh Satyajit, Roy Rajsekhar
16	MMP-9 responsive growth factor releasing neuroprotective hydrogel IN 202311014414	India	2022	-	**Ghosh Surajit**, Mukherjee Nabanita, Ghosh Satyajit, Roy Rajsekhar, Nandi Debasmita, Jana Aniket, Gupta Sanju

17	Bioactive antioxidative neuroprotective nanoparticles for combating ros levels and neuron regeneration in traumatic brain injury IN 202311054293	India	2022	-	**Ghosh Surajit**, Garg Shubham, Jana Aniket, Gupta Sanju, Umar Arshi Mohammad, Roy Rajsekhar
18	An easy-to-use diagnostic system for rapid dengue virus detection using fluorescence-based molecular IN 202011019066	India	2020	-	Biswas Subhajit, **Ghosh Surajit**, Soumi Sukla, Prasenjit Mondal
19	Nonapeptide of formula I, pharmaceutical compositions and methods for preparation thereof IN 201811020565	India	2018	-	**Ghosh Surajit**, Mondal Prasenjit, Das Gaurav, Khan Juhee, Pradhan Krishnangsu
20	Peptoid of formula I, pharmaceutical compositions and method for preparation thereof IN 201811016874	India	2018	-	**Ghosh Surajit**, Pradhan Krishnangsu, Das Gaurav, Mondal Prasenjit, Barman Surajit, Ghosh Subhajit
21	Pharmaceutical compositions comprising nonapeptide WO 2019229771 A2 20191205	PCT	2019	-	**Ghosh Surajit**, Mondal Prasenjit, Das Gaurav, Khan Juhee, Pradhan Krishnangsu
22	Prepn. of peptoid pharmaceutical compns. for treatment of Alzheimer's disease WO 2019211878 A1 20191107	PCT	2019	-	**Ghosh Surajit**, Pradhan Krishnangsu, Das Gaurav, Mondal Prasenjit, Barman Surajit, Ghosh Subhajit
23	A LDV peptide liposomal formulation of Photosystem-1 for treatment of cancer WO 2018065993 A1 20180412	PCT	2018	-	**Ghosh Surajit**, Saha Abhijit, Ghosh Subhajit, Mohapatra Saswat, Jana Batakrishna, Bhunia Debmalya