Curriculum Vitae

Dr. Kaustabh Kumar Maiti

Principal Scientist & Associate Professor, AcSIR

CSIR-National Institute for Interdisciplinary Science and Technology (NIIST),
Chemical Sciences and Technology Division,
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Educational qualifications

- Ph.D (2001) in Synthetic Organic Chemistry, University of Calcutta, Kolkata, India
- M.Sc (1993) in Pure chemistry, University of Calcutta, Kolkata, India
- B.Sc (1991) Chemistry (Hons), University of Calcutta

Research and Professional Experience

- **Principal Scientist & Associate Professor, AcSIR :** CSIR –NIIST, Trivandrum; April 23, 2015 -till date
- **Senior Scientist & Assistant Professor, AcSIR :** CSIR –NIIST, Trivandrum; April 23, 2012 – April, 22, 2015
- **Senior Research Fellow:** Singapore Bioimaging Consortium A*STAR, Singapore, July 2009 - March 2012
- **Postdoctoral Research Associate:** Complex Carbohydrate Research, Centre (CCRC), University of Georgia, USA May, 2007 - March, 2009

- **Postdoctoral Research Scientist:** Pohang University of Science & Technology (POSTECH), Republic of Korea, April 2003 - April 2007
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Industrial Experience

- **Executive (R&D):** ***Sun Pharma Advanced Research Centre (SPARC), Sun Pharmaceuticals Industries Ltd.,*** Vadodara, Gujarat, October, 2000 - March, 2003

- **Research Officer: Alembic Ltd.** Vadodara, Gujarat, March 2000 - September 2000

Professional Affiliations

- Indian Chemical Society: – Life member
- Indian Science Congress Association - Life member
- Chemical Research Society of India (CRSI)- Life member

Academic achievements

No of papers in peer reviewed Journal (up to Aug, 2021)	80 (Average Impact Factor per paper: 6.04)
No. of Patents	14
H-index	24
Citation (google scholar as on August, 2021)	2306
PhD Awarded	7
PhD Supervision (ongoing)	8
Post docs trained	5
M.Sc Project supervised	22

Honors and Awards:

- *Service Excellence Award* from Singapore Bioimaging Consortium (SBIC), A*STAR, Singapore, 2011

- *CSIR Technology Award, CSIR*, Ministry of Science and Technology, Govt. of India, 2020

Research interest:

My research interest consisted within the interface between chemistry, biology and nano science, broadly in the following area:

A. Nanobiotechnology: (i) Advanced functional materials; (ii) Nanomaterials; (iii) Fluorescent and Raman active molecules towards the development of sensing, diagnostic and multimodal theransotic nanoplatform for non-communicable diseases, viz., Cancer diagnosis and treatment.

B. Chemical Biology: (i) Development of synthetic molecular transporter; Nano-carrier; (ii) *In vitro* cell based assays; molecular pathways towards the development of targeted drug delivery system (DDS) for efficient delivery of chemotherapeutic drugs / small molecular inhibitors / genomic components (non-viral vectors)

C. Phytopharmaceuticals: (i) Isolation of bioactive molecules from plant sources; (ii) Semi-synthetic modification to generate library of compounds; (ii) In vitro cell based screening towards the generation for HIT / Advanced HITs in the therapeutic area of cancer, cardiovascular and diabetic which will be the potential for further pre-clinical and clinical trials

Current research interest:

- **Diagnostic & Theranostic Nanoprobe development**:

1. Targeted Drug Delivery System Development (TDDS): Both synthetic and nano-carrier scaffold for efficient chemotherapy
2. SERS-tags for diagnostic nanoprobe development for multiplex detection of clinically potential biomarkers
3. Ultrasensitive detection and imaging of human cancer viz., cervical, breast, lung and oral through multimodal probe (Fluorescence, Raman etc)
4. Detection of bacterial infection (Raman / SERS-tags)
5. Detection & quantification of lipid bodies in algae's (Raman / SERS-tags)
6. Early detection of Alzheimer's Disease (Fluorescence / Raman)

- **Multimodal theranostic nano-probes** with SERS fluorescence, and MRI, as diagnostic modalities and Phototherapy by Photodynamic (PDT), Photothermal hyperthermia (PTT) and Chemo as therapy.
- Rational Approach for Augmenting **New Phytochemical Entities (NPCEs)** from Indigenous Plants Towards Anti-Cancer Potentials
- Semi-synthetic modification of bioactive natural products isolated from plants and marine sources and transformed them as potential hits / advanced hits towards anti-cancer potential.

Major Projects handled as PI / Co-PI / Project Coordinator

NON-CSIR Project:

Ongoing:

- **Project Title: "**Biocompatible Combined Polymer-Polysaccharide Core-shell VEGF-Targeted Nano-Carrier For Sustained Intraocular Pharmacotherapy Towards Diabetic Retinopathy"***- Principal Investigator*

  Funding Agency: **DBT**, **51.23** Lakhs (3 year); (September, 2018- August, 2021)
- **Project Title: "**Engineering intelligent theranostic nanocarrier for targeted therapy and diagnosis of cancer"***- Principal Investigator from NIIST*

  Funding Agency: **DST, SERB**, **16.6** Lakhs (3 year); (August, 2018- July, 2021)
- **Project Title:** Engineering Nanostructured Surfaces for Developing SERS Sensing Platform - ***Co-Principal Investigator***

  Funding Agency: **DBT 71.5** Lakhs (3 year); (September, 2018- August, 2021)

Completed:

- **Project Title:** "Design A Smart Drug-Delivery System Using Activatable Cell-Penetrating Peptides and Scaffold Based Non-peptide Carriers For Targeting Human Cancer" -***Principal Investigator***

  Funding agency**: DST (SERB)** : **27** Lakhs; (June 2013 to May, 2016)

- **Project Title**: "Gold Nanorod Based Targeted Nanoprobe For Cancer Theranostics: Diagnosis By Surface Enhanced Raman Scattering (Sers) And Fluorescence Imaging And Therapy By PDTand PTT"-***Principal Investigator***

  Funding Agency: **DBT**; **84.224** Lakhs (3 years); (March, 2016-Feb, 2019)
- **Project Title**:"Development Of Multiplexing Detection Platform Of Breast Cancer Biomarkers By Non-Invasive Surface Enhanced Raman Scattering (Sers) Nanoprobe"-***Principal Investigator***

  Funding Agency: **DST Nano Mission**, **37.2** Lakhs (3 year); (August, 2017 – Dec, 2020)

List of CSIR Network Projects: 12th FYP (March, 2012 to March, 2017)

- **Project Title**: Molecules To Materials To Devices (M2D)

  Lab co-ordinator from CSIR-NIIST

  Budget: **831 Lakhs** (NIIST)

  Major Achievement: *Probes for SERS based detection of cervical cancer (CSIR-NIIST; TRL 4) - These nanoprobes are being validated in clinical samples through active collaboration with Regional Cancer Centre (RCC), Trivandrum (TLR 4)-* ***Project Leader***
- **Project Title**: Nanomaterials: Application and Impact on Safety, Health And Environment (NanoSHE)

  Nodal Scientist from CSIR-NIIST

  Budget: **116 Lakhs**

  Major Achievement: *Gold Nanorod based Theranostic Nanoprobe for Phothermal Chemotherapy to MMP2 expressed cancer tumors* : (TRL3)- Nodal officer from NIIST
- **Project Title**: Natural Products as Affordable Healthcare Agents (NaPaHa)

  Participating Scientist from CSIR-NIIST

  Budget: **413 Lakhs**

  Major Achievement: *Isolation Of Anticancer Agent From Hydnocarpus Wightiana Blume and Its Semi Synthetic Modifications For Enhanced Anticancer Activity* – Participating Scientist from NIIST

CSIR Mission Mode Project (March, 2018- February, 2020)

- **Project Title**: "Nanobiosensors and Microfluodics for Healthcare" **"**Development of SERS-Nanoprobe for Multiplexing Diagnosis of Breast and Lung Cancer Biomarkers in Tumor Tissue Samples By Raman Fingerprint":

  Project Leader from NIIST / Budget: **749 Lakhs** (For CSIR-NIIST)

CSIR FTT Project (Aug., 2018 – March, 2020)

- **Project Title**: Development of Cellular Sensors: Biocompatible fluorescent molecules for sensing and cellular imaging of pH, Zn^{2+} and reactive oxygen species
  Co-Principal Investigator / Budget : 75 Lakhs

CSIR FTT Project (June, 2020 – March, 2022)

- **Project Title** : Customized Portable Raman spectrophotometric device for multiplex detection of breast cancer biomarkers
  Co-Principal Investigator / Budget : 132 Lakhs

CSIR Covid Project (MLP 0047) (June, 2020 – Nov 2020)

- **Project Title** : Development of Ultrasensitive, Rapid and Portable system for COVID-19 screening using Label-free Raman Fingerprinting and AI
  Principal Investigator / Budget : 12 lakhs

CSIR Covid Project (MLP0048) (Aug, 2020 – March, 2021)

- **Project Title** : Multiplexed lateral-flow device(s) for detection of COVID-19 (CSIR-NllST: COVID-19 ViralRNA detection kit with ultra-bright oligoprobes for the capture and detection of viralRNA via Lateral Flow based devices)
  Co-Principal Investigator / Budget: 39 lakhs

Teaching Experience:

The following courses are taken care for AcSIR Ph.D students since 2013 January, session:

(a) Organic Chemistry (Basic & Advanced); (b) Advanced Carbohydrate Chemistry; (c) Natural Products and basic aspects of Medicinal Chemistry; (d) Advances in Nanoscience and Nanobiotechnology; (e) Research Methodology:

Administrative Experience:

Services provided to the Institute to the following Committees:

- Academic Programme Committee (APC)
- Laboratory Safety Committee
- Works and Service Committee

Services Provided for Institute Facility creation:

- Major Equipment: Confocal Raman Microscope; MALDI-TOF Mass; NMR; Set-up Biology Lab (Cell Culture facility)

Selected Publications:

- Elucidating a Thermo-responsive Multimodal Photo-Chemotherapeutic Nano-delivery Vehicle to Overcome the Barriers of Doxorubicin Therapy; Jyothi B Nair, Manu M Joseph, Jayadev S Arya, Padincharapad Sreedevi, Palasseri T Sujai, and Kaustabh Kumar Maiti*; *ACS Appl. Mater. Interfaces,* 2020, 12, 39, 43365–43379 (IF: 9.22).

- Diagnostic Spectro-cytology revealing differential recognition of cervical Cancer lesions by label-free surface enhanced Raman fingerprints and Chemomssetrics; Varsha Karunakaran, Valliamma N. Saritha, Manu M.Joseph, Jyothi B. Nair, Giridharan Saranya, Kozhiparambil G. Raghu, Kunjuraman Sujathan*, Krishnan Nair S. Kumar, Kaustabh K. Maiti* *Nanomedicine: Nanotechnology, Biology and Medicine*, 2020, 29, 102276 (IF: 6.45).

- Targeted Theranostic Nano Vehicle Endorsed with Self-Destruction and Immunostimulatory Features to Circumvent Drug Resistance and Wipe-Out Tumor Reinitiating Cancer Stem Cells; Manu M. Joseph, Adukkadan N. Ramya, Vineeth M.

Vijayan, Jyothi B. Nair, Blossom T. Bastian, Raveendran K. Pillai, Sreelekha T. Therakathinal,* and Kaustabh K. Maiti* *Small,* 2020, 16, 2003309 (IF: 13.28).

- Surface charge modulates the internalization vs penetration of gold nanoparticles: comprehensive scrutiny on monolayer cancer cells, multicellular spheroids and solid tumors by SERS modality; Palasseri T. Sujai, Manu M. Joseph, Giridharan Saranya, Jyothi B. Nair, Vishnu Priya Murali and Kaustabh Kumar Maiti*; *Nanoscale*, 2020, 12, 6971–6975 (IF: 7.79)

- Exploring Mitochondria Mediated Intrinsic Apoptosis by New Phytochemical Entities: An Explicit Observation of Cytochrome c Dynamics on Lung and Melanoma Cancer Cells; Jayadev S Arya, Manu M Joseph*, Daisy Sherin, Jyothi B Nair, Thanathu Krishnan Manojkumar*, and Kaustabh Kumar Maiti* *J. Med. Chem.,* 2019, 62, 8311-8329 (IF: 7.44)

- Enzyme-Driven Switchable Fluorescence-SERS Diagnostic Nanococktail for the Multiplex Detection of Lung Cancer Biomarkers; Giridharan Saranya,Manu M. Joseph, Varsha Karunakaran, Jyothi B. Nair, Valliamma N. Saritha, Vamadevan S. Veena, Kunjuraman Sujathan*, Ayyappanpillai Ajayaghosh*, and Kaustabh K. Maiti*, *ACS Applied Materials and Interfaces*, 2018, 10 (45), pp 38807–38818 (IF: 9.22)

- Exploring the margins of SERS in practical domain: An emerging diagnostic modality for modern biomedical applications; Manu M. Joseph, Nisha Narayanan, Jyothi B. Nair, Varsha Karunakaran, Adukkadan N. Ramya, Palasseri T. Sujai, Giridharan Saranya, Jayadev S. Arya, Vineeth M. Vijayan and Kaustabh Kumar Maiti*, *Biomaterials*, 2018, 140-181 (IF: 10.31)

- Emergence of Gold-Mesoporous Silica Hybrid Nanotheranostics: Dox-Encoded, Folate Targeted Chemotherapy with Modulation of SERS Fingerprinting for Apoptosis Toward Tumor Eradication; A. N. Ramya; M. M. Joseph; S. Maniganda,V. Karunakaran, Sreelekha, T T ; Kaustabh Kumar Maiti*, *Small*, **2017**, 13, 1700819 (IF: 13.28)

- Investigation of apoptotic events at molecular level induced by SERS guided targeted theranostic nanoprobe; Nisha Narayanan, Lakshmi V. Nair, Varsha Karunakaran, Manu M. Joseph, Jyothi B. Nair, Ramya A. N, Ramapurath S. Jayasree* and Kaustabh Kumar Maiti*, *Nanoscale*., **2016**, 8, 11392-1139 (IF: 7.79)

- Aggregation induced Raman scattering of squaraine dye: Implementation in diagnosis of cervical cancer dysplasia by S-ERS imaging; Nisha Narayanan, Varsha Karunakaran,

Willi Paul, Karunakaran Venugopal, K. Sujathan, Kaustabh Kumar Maiti*, *Biosensors and Bioelectronics*., **2015**, 70, 145-152 (IF: 10.25)

- Novel lysosome targeted molecular transporter built on a guanidinium-poly-(propylene imine) hybrid dendron for efficient delivery of doxorubicin into cancer cells; Jyothi B. Nair, Saswat Mohapatra, Surajit Ghosh, Kaustabh K. Maiti* *Chem Commun.*, **2015**, 51, 2403-2406 (IF: 6.01)

- Surface-enhanced Raman scattering in cancer detection and imaging M. Vendrell*, Kaustabh K. Maiti*, K. Dhaliwal, Y-T Chang, *Trends in Biotechnology*, **2013**, *31*, 249-254 (IF: 11.41)

- Multiplex Targeted in vivo Cancer Detection Using Sensitive Near-Infrared SERS Nanotags; Kaustabh Kumar Maiti, Dinish U. S, Animesh Samanta, Marc Vendrell, Kiat-Seng Soh, Sung Jin Park, Malini Olivo Young-Tae Chang* *Nano Today*, **2012**, 7, 85-93 (IF: 16.90)

- Development of Ultrasensitive Near-Infrared Raman Reporters for SERS-based in vivo Cancer Detection; Animesh Samanta, Kaustabh Kumar Maiti, Kiat-Seng Soh, Xiaojun Liao, Seong-Wook Yun, Ramaswamy Bhuvaneswari, Marc Vendrell, Hyori Kim, Shashi Rautela, Malini Olivo, Junho Chung, Young-Tae Chang*. *Angew.Chem. Int. Ed*., **2011,** 50, 6089-6092 (IF: 12.95)

- Novel Lipidated Sorbitol-based Molecular Transporters for Non-viral Gene Delivery; Tomoko Higashi, Ikramy A. Khalil, Kaustabh K. Maiti, Woo Sirl Lee, Hidetaka Akita, Hideyoshi Harashima, and Sung-Kee Chung* *Journal of Controlled Release*, **2009**, 136(2), 140-147 (IF: 7.94)

- Novel Guanidine-containing Molecular Transporters: Sorbitol-based Transporters Show High Intracellular Selectivity toward Mitochondria; Kaustabh K. Maiti, Woo Sirl Lee, Toshihide Takeuchi, Catherine Watkins, Marjan Fretz, Dong-Chan Kim, Shiroh Futaki, Arwyn Jones, Kyong-Tai Kim and Sung-Kee Chung* *Angew.Chem. Int. Ed.*, **2007**, 46, 5880-5884 (IF: 12.95)

- Design, Synthesis and Membrane-Translocation studies of Inositol-based Transporters; Kaustabh K. Maiti, Ock-Youm Jeon, Woo Sirl Lee, Dong-Chan Kim, Kyong-Tai Kim, Toshihide Takeuchi, Shiroh Futaki and Sung-Kee Chung*, *Angew.Chem. Int. Ed*., **2006**, 45, 2709-2712 (IF: 12.95)

Selected Patents:

- Screening kit for detection of grades of cervical cancer and process for the preparation thereof; Maiti, Kaustabh Kumar, Varsha Karunakaran, K. Sujathan; PCT Int.

Appl. (2020), WO 2020021568 A1 20200130. Language: English, Database: CAPLUS, Date: 30th January, 2020.

- A Diagnostic screening kit for simultaneous detection of clinically relevant biomarkers from breast cancer tissue samples using surface enhanced Raman scattering platform and process for the preparation thereof; Maiti, Kaustabh Kumar, K. Sujathan, Vishnu Priya Murali, Varsha K, Deepika S, Madhukrishnan M; Indian Patent Application No. 202011034768, dated 11.08.2020.

- Surface enhanced Raman spectroscopy (SERS) compounds and methods of their preparation; Young Tae Chang, Kaustabh Kumar Maiti, U.S. Dinish, Chit Yaw Fu, Malini Olivo, Soh Kait Seng Jason, Seong wook Yun; U.S. Pat. Appl. Publ. (2012), 73pp., Pub. No.: US 2012/0128592 A1; Pub. Date: May, 24, 2012.

- Inositol based molecular transporters and processes for the preparation thereof, Sung-Kee Chung, Kaustabh K Maiti, Jeon Ock Youm, Seok-Ho Yu ;U.S. Pat. Appl. Publ. (2006), 25pp., Pub. No.: US 2006/0280796 A1; Pub. Date: Dec. 14, 2006.

- Molecular transporters based on sugar or its analogues and processes for the preparation thereof", Sung-Kee Chung, Kaustabh K Maiti, Jeon Ock Youm, Seok-Ho Yu;U.S. Patent No.: US 7,846,975 B2, A1; Pub. Date: Dec. 7, 2010.

- Molecular transporters based on alditol or inositol and processes for the preparation thereof.Sung-Kee Chung, Kaustabh K Maiti, Woo Sirl Lee U.S. Pat. Appl. Publ. (2008), 32pp.,Cont.-in-part of U.S. Ser. No. 815,339. CODEN: USXXCO US 2008039421 A1 20080214 Patent written in English.

Conferences and Invited Lectures:

- ICEM-14: 14th International Conference on Eco materials. Organized by CSIR-NIIST, Thiruvananthapuram in association with National Institute for Materials Science, Japan and Eco materials Forum, Japan from Feb 5-7 ,2020 Poster presentation: A Label Free SERS Based Detection of Marker Nucleobases using Complementary Oligonucleotide Strand for Dengue Viral Infection; Selvakumar Deepika, Anjitha Ajith, Vishnu Priya Murali, Varsha Karunakaran and Kaustabh Kumar Maiti (Best poster award)

- NANOBIOTECK – 2019, 4th Annual Conference of Indian Society of Nanomedicine, (21st - 23rd November 2019) held at Aerocity, New Delhi as a Delegate. Two Poster presentations, (i) VEGF targeted biocompatible nano-carrier system for the sustained

release of drug towards diabetic retinopathy, Vidya lekshmi MS, Arya J.S, Kaustabh Kumar Maiti (ii) Best poster award, Sreedevi P ,Jyothi B Nair, Kaustabh Kumar Maiti.

- 8th Annual Meeting of Indian Academy of Biomedical Sciences, Organised by CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram (Feb 25-27th, 2019); New Phytochemical Entities Derived from Hydnocarpus wightiana Blume Facilitate Mitochondria Mediated Apoptosis Through cyt c Release Monitored By Raman Fingerprint, Invited Talk: Dr. Kaustabh Kumar Maiti.

- Recent Advances in Photonics, Organized by Department of Atomic and Molecular Physics, Manipal University, Manipal (Nov 13, 2017); Emerging Trends in Raman Spectroscopy Towards Biology and Medicine, Invited talk: Kaustabh Kumar Maiti.
- 6th Asian Biomaterial Congress on Innovative Biomaterials: Technologies for Life and Society, Organised by Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram (Oct, 25-27th, 2017); Emerging Trends in Diagnostic and Theranostic Nanoprobe for Cancer Treatment, Invited talk: Kaustabh Kumar Maiti.
- International Conference on Emerging Trends in Chemical Sciences, Organised by Manipal Institute of Technology at Manipal University (Sep 14-16, 2017); Emerging Trends in Targeted Drug Delivery System (TDDS), Diagnostic and Theranostic Nanoprobe for Cancer Treatment, Invited talk: Kaustabh Kumar Maiti.
- 2nd International conference on nutraceuticals and chronic diseases, organized by IIT Guwahati at Bugmallo, Goa (Sep 1-3, 2017); Exploring Anti-Cancer Potential of Hydnocarpin-Isoxazole derivatives as New Chemical Entities; Invited talk: Kaustabh Kumar Maiti.
- National Seminar on Omics & Biomarker Analysis: In disease Pathology 2.0 & Young Investigators Retreat, Organized by Department of Zoology, University of Kerala, (Dec 19-21 st 2016) ; Recent development of Surface Enhanced Raman Scattering (SERS) nanotag for molecular level detection and bioimaging of cancer cells, Invited Talk : Kaustabh Kumar Maiti.
- International Conference on Advanced Materials SCICON '16 materials for a better tomorrow; Organized by Department of Sciences, Amrita Vishwa Vidyapeetam Coimbatore (Dec 19-21st 2016) ; Recent development on Biocompatible Theranostic Surface Enhanced Raman Scattering (SERS) nanoprobe for spectroscopic detection and bioimaging of human cancer : Invited Talk : Kaustabh Kumar Maiti.

- International Conference on Current Trends in Biotechnology (ICCB-2016), Organized by School of Biosciences and Technology, VIT University, Vellore in association with the Biotech Research Society, India (Dec, 8-10th, 2016); New Insight of Surface

Enhanced Raman Scattering (SERS) nanoprobe for spectroscopic detection and bioimaging of human cancer: Invited Talk: Kaustabh Kumar Maiti.

- 4th International Conference on Frontiers in Nanoscience and Technology (COCHIN NANO-2016), Organized by CUSAT,Cochin (Feb 20-23rd, 2016); New Insight of Biocompatible Surface Enhanced Raman Scattering (SERS) Nanotag for Spectroscopic Detection and Bioimaging of Human Cancer; Invited Talk : Kaustabh Kumar Maiti.

- National Seminar on Emerging Trends in Chemical Sciences (ETCS-2013): Organized by Department of Chemistry, University of Kerala, Katiavattom, Trivandrum (May, 29-31st, 2013; Development of Highly Sensitive Biocompatable Surface Enhanced Raman Scattering (SERS) Nanotag for Spectroscopic Detection and Bioimaging of Human Cancer); Invited Talk; Kaustabh Kumar Maiti

- 5th Asian Conference on Colloid and Interface Sciences (ACCIS 2013): Organized by Asian Society for colloid and Surface Science (ASCASS), Department of Chemistry, University of North Bengal, Darjeeling, India. (November, 20th to 23rd, 2013); Development of Highly Sensitive Biocompatible Surface Enhanced Raman Scattering (SERS) Nanotag for Spectroscopic Detection and Bioimaging Human Cancer.

  Invited Talk - Kaustabh Kumar Maiti

- A*STAR CHEMISTRY SYMPOSIUM, A*STAR Scientific Conference; 10th November, 2011, Biopolis, Singapore; "Development of Biocompatible SERS Nanotag with Increased Stability for in vivo Cancer Detection"; Invited Talk :Kaustabh Kumar Maiti.

- 236th National Meeting and Exposition organized by American Chemical Society (ACS), Philadelphia, USA, August, 17th to 21st, 2008; "Differential recognition of Gram-positive and –negative synthetic peptidoglycan fragments by Toll-like receptor 2" ; Poster presentation in Medicinal chemistry Division : Kaustabh K Maiti, Jinkeng Asong, Margreet Wolfert, Douglas Miller, Geert-Jan Boons

- The 11th Korea-Japan Joint Symposium On Drug Design and Development, May, 10-12, 2006, Jeju Island, Korea.Design and Synthetic Studies of Novel Guanidine-containing Molecular-Transporters Using Inosito dimers as Scaffold; Poster presentation: Kaustabh K. Maiti, Ock-Youm Jeon, Woo Sirl Lee and Sung-Kee Chung