

# CURRICULUM VITAE

## GOUTAM BISWAS, Ph.D

Assistant Professor, Department of Chemistry  
Cooch Behar PanchananBarma University,  
Vivekananda Street, Cooch Behar-736101, West Bengal.  
Tel: +91 9830238008 (Mobile)  
E-mail: [goutambi@gmail.com](mailto:goutambi@gmail.com),



### Work Experience:

**Assistant Professor at Cooch Behar PanchananBarma University, West Bengal** February 2018-till date.

**Scientist II at Invictus Oncology** November 2015-February 2018.

- Designing and Synthesis of anti-cancer drug derivatives.
- Designing of liposomal nanoparticles with active pharmaceutical ingredient (API).
- As a group leader guiding two projects.

**Visiting Scientist at IISER, Kolkata** August 2015-October 2015

**Research Associate at Jawaharlal Nehru University, India-** March 2015- July 2015

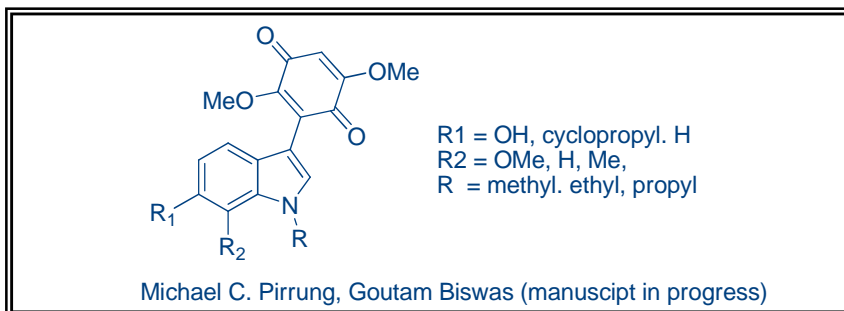
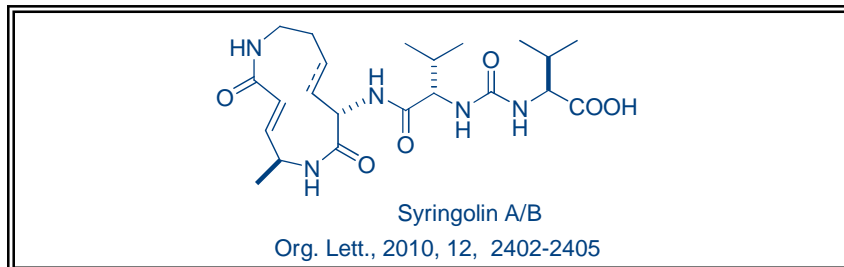
**Postdoctoral Research Associate at Ewha Women's University, Seoul** – March, 2013 to February, 2015.

- Synthesis of cyclic peptoid and its derivatives, and peptoid architecture.
- Taking 6 credit class per semester.
- As a group leader guiding MS and PhD student in two projects.

**Research Scientist at Sai Life Sciences Limited**– May 2011 to February 2013

**Postdoctoral fellow at University of California, Riverside,** – June, 2009 to December 2010.

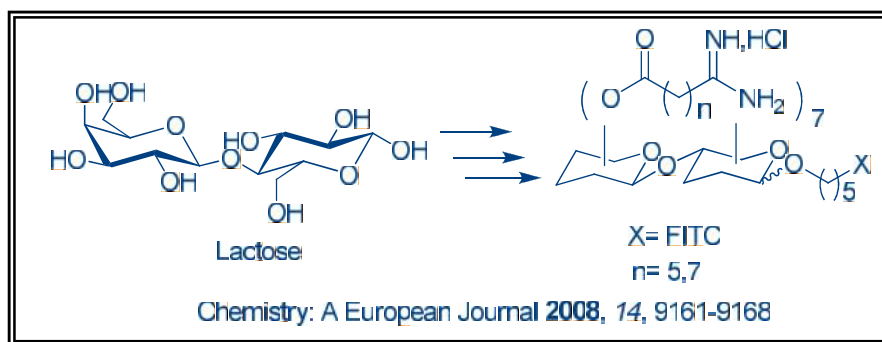
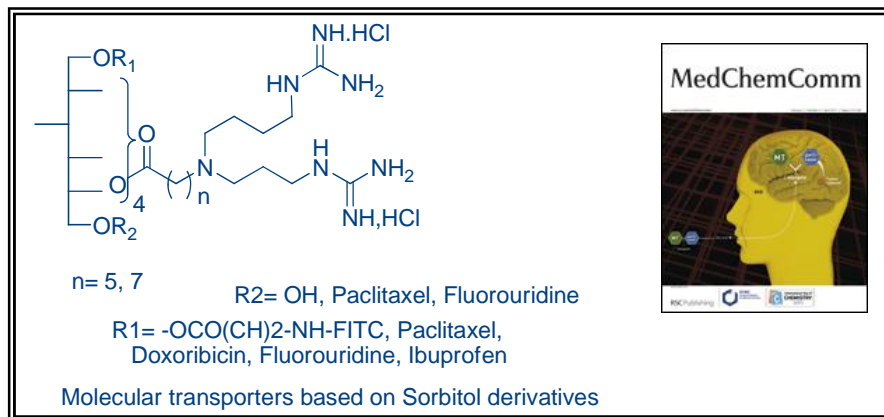
- Synthesis of Syringolin A/B and its derivatives, different indolyl derivatives and different small molecules.



**Postdoctoral fellow at University of Nebraska, Lincoln, USA** – Nov, 2008 to May, 2009

Postdoctoral fellow at POSTECH, South Korea– July 2006 to November2008(Research fellow of BK21 project)

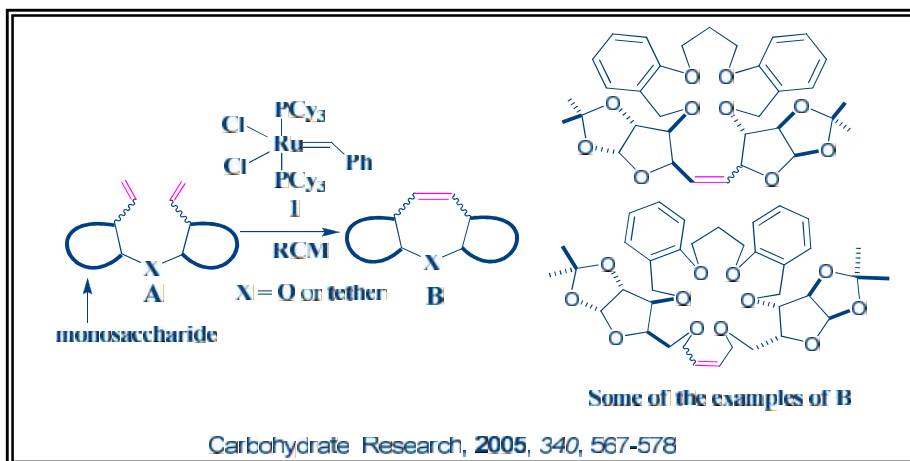
- Synthesis of molecular transporters from carbohydrate precursors.



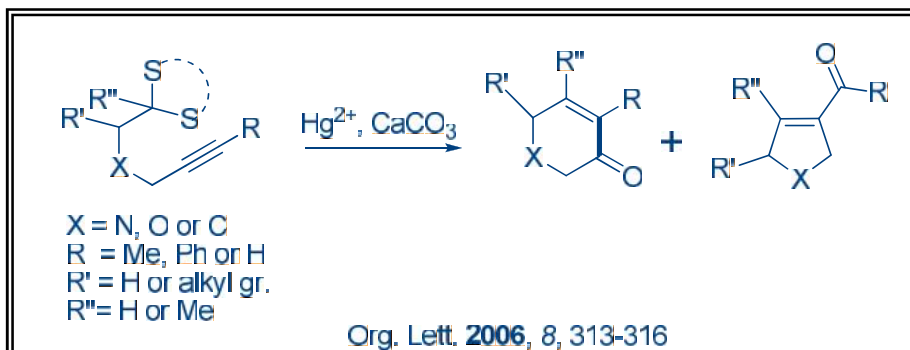
Research Associate at ChemgenPharma Limited– March 2006 to June2006

### Doctoral Research Experience

- An approach to Chiral Symmetrical Macroheterocycles using Ring Closing Metathesis



- Mercuric chloride mediated cyclization-rearrangement of tethered alkyne dithioacetals: A general method for the synthesis of six and five membered rings.



## Technical

- Skills:**
- Hands on experience in the synthesis of organic compounds both in solution and solid phase.
  - Interpretation of the structure of organic compounds by using NMR, FT-IR and Mass spectroscopic data.
  - Hands on experience on the operation of NMR instrument(300MHz/400MHz/500MHz-Brucker DPX model, Varian), High Performance Liquid Chromatography (**HPLC**), Gas Chromatography–Mass Spectrometry (**GC-MS**), Liquid Chromatography Mass Spectrometry (**LC-MS**), **UV-Vis** spectrophotometer, Spectrofluorimeter, Polarimeter, **FT-IR** in the analysis of organic compounds.

**ComputerSkills:**

- Programming Languages: Fortran, C and Basic.
- Software Packages: LabVIEW, Chem Draw Ultra 6.0, MS Office, Mestrec, Specview.

<b>Education:</b>	<b>Doctor of Philosophy</b>	February 2001 – July 2006
	Jadavpur University, Calcutta, India	
	<b>Master of Science</b> , (Organic Chemistry)	July 1998 – June 2000
	University of Calcutta, Calcutta, India	
	<b>Bachelor of Science</b> , (Chemistry)	July 1995 – June 1998
	University of Calcutta, Calcutta, India	

## Awards and

- Fellowships:**
- 2000 Qualified the prestigious **GATE** (Graduate Aptitude Test for Engineers) examination of Indian Institute of Technology.
  - 2001-2006 Awarded Research Fellowship (**NET, CSIR**) by the Council of Scientific and Industrial Research, Ministry of Human Resource Development, Government of India.

## Research papers published:

- Graphene Oxide-Phenalenyl Composite: Transition Metal Free Recyclable and Catalytic C-H Functionalization. Bhagat Singh, RupankarPaira,,GoutamBiswas, Bikash Kumar Shaw, and Swadhin K.Mandal; Communicated to **Chemical Science**, **review in progress**.
- Targeting the Apolipoprotein E/Amyloid Interaction by CPO\_A 17-21P, a Non-toxic and Non-FibrillogenicPeptoid, Ameliorates A -related Pathology and Improves Cognitive Decline in a Mouse Model of Alzheimer’s Disease: Shan Liu, Shinae Park, Grant Allington, Frances Prelli, Yanjie Sun, Mitchell Martá-Ariza, HenrietaScholtzova, GoutamBiswas, Bernard Brown, Philip B. Verghese, Pankaj D. Mehta, Yong-Uk Kwon & Thomas Wisniewski.Scientific Reports(Nature publishing) **7**, Article number: 8009 (**2017**).**Impact Factor4.259**.
- Synthesis of ibuprofen conjugated molecular transporter capable of enhanced brain penetration. GoutamBiswas,Wanil Kim, Kyong-Tai Kim, Junhwi Cho, DongjunJeong, Keon-Hyoung Song, and JungkyunIm;Journal of Chemistry, **Vol 2017. Impact Factor1.300**.
- Structural sensitivity of peptoid-based low molecular mass organogelatorGoutamBiswas , Hyo Jung Moon , PrzemysławBoraty ski , ByeongmoonJeong , Yong-Uk Kwon. Materials and Design, 108 (2016) 659–665. **Impact Factor4.364**.
- Synthesis and Bioluminescent Properties of Difluoroluciferin: **Michael C. Pirrung**,\*GoutamBiswas,NatalieDeHowitt Rivera, Jiayu Liao.;*Bioorg. Med. Chem. Lett.***2014**, *24*, 4881-4883.**Impact Factor2.454**
- Unusual truncation of N-acylatedpeptoids under acidic conditions:Soomin Kim, GoutamBiswas, Shinae Park, Arim Kim, Hyunjung Park, Eunsook Park, Jeongmi Kim and Yong-Uk Kwon\*, *Org. Biomol. Chem.*, **2014**, *12* (28), 5222 - 5226. **Impact Factor 3.564**.
- A Blood-brain Barrier Permeable Derivative of 5-Fluorouracil: Preparation, Intracellular Localization, and Mouse Tissue DistributionIm, J.; **Biswas, G.**; Kim, W.; Kim, K. T. and Chung, S. K. *Bull. Korean. Chem. Soc.* **2011**, *32*, 873-879. **Impact Factor 0.602**.
- Preparation of blood-brain barrier-permeable paclitaxel-carrier conjugateand its chemotherapeutic activity in the mouse glioblastoma model. JuyounJin, Woo Sirl Lee, Kyeung Min Joo, Kaustabh K. Maiti, **GoutamBiswas**, Wanil Kim, Kyong-Tai Kim, Se Jeong Lee, Kang-Ho Kim, Do-Hyun Nam, Sung-Kee Chung. *Med. Chem. Commun.*, **2011**, *2*, 270-273.**Inside front cover. Impact Factor 2.608**
- Total synthesis of Syringolin A and B.Michael C.Pirrung,.;**GoutamBiswas**;; Tannya R. Ibarra-Rivera, *Org. Lett.* **2010**, *12*, 2402-2405 **Impact Factor 6.579**
- Novel Guanidine-containing Molecular Transporters based on Lactose Scaffold: Lipophilicity Effect on the Intracellular Organellar Selectivity **GoutamBiswas**,Ock-YoumJeon,WooSirl Lee, Dong-Chan Kim, Kyong-Tai Kim, Suho Lee, Sunghoe Chang and Sung-Kee Chung *Chemistry:A European Journal*.**2008**, *14*, 9161-9168. **Impact Factor 5.317**

- Mercuric chloride mediated cyclization of tethered alkyne dithioacetals as a general route to five- and six-membered rings: tuning of regioselectivity by alkyne substitution **Goutam Biswas**, Subir Ghorai, and Anup Bhattacharjya, *Org. Lett.* **2006**, *8*, 313-316. **Impact Factor 6.579**
- Expedient synthesis of enantiopure symmetrical macroheterocycles by ring-closing metathesis of ether and tether-linked 1,2-*O*-isopropylidene furanosides **G. Biswas**, J. Sengupta, M. Nath and A. Bhattacharjya, *Carb. Res.* **2005**, *340*, 567-578. **Impact Factor 2.096**.

#### Patent published/communicated:

- “Pharmaceutical composition for prevention or treatment of degenerative brain diseases”, Im. J.; Biswas, G., publication no. KR101795302 (B1), (09.11. 2017).
- “Fluorescent anticancer platinum drugs”, Biswas, G., Dutta, P., Mandal, S. K., Modi, S., Raj, J.P., Sarkar, A., Sarkar, A., Sengupta, A., Sharma, R., Suryavanshi, H., publication no. PCT/IB2016/056160, (14.10.2016).
- “Cellular Signalling Inhibitors, Their Formulations And Methods Thereof”, Roy. M., Biswas, G., Suryavanshi, H., Mukherjee, A., Kulkarni. A., Sengupta, S., publication no. PCT/IB2017/050770, (11.02.2017).
- “Novel Inhibitors of Cellular Signalling” Roy. M., Biswas, G., Suryavanshi, H., Mukherjee, A., publication no. Patent Application No, PCT/IB2018/050839 (12.02.2018).

#### Poster Presentation:

- “Total synthesis of the syringolins.” Pirrung, Michael C.; Biswas, Goutam; Ibarra-Rivera, Tannya R. Abstracts of Papers, 239th **ACS National Meeting**, San Francisco, CA, United States, March 21-25, 2010 (**2010**).
- “Differentiation of human embryonic stem cells to dopaminergic neurons by small molecules.” Kochegarov, Andrei; Huang, Yaodong; Biswas, Goutam; Pirrung, Michael C. Abstracts of Papers, 239th **ACS National Meeting**, San Francisco, CA, United States, March 21-25, 2010 (**2010**).
- “Chiral macroheterocycles from carbohydrate derivatives by ring closing metathesis” **G. Biswas**, J. Sengupta, M. Nath, A. Ray and A. Bhattacharjya, National Symposium on Organic Chemistry-II, Jadavpur, Kolkata, December, **2003**.