Prof. (Dr.) Asim Kumar Bothra
Professor in Chemistry

Academic Qualifications:

B.Sc. (Hons.) in Chemistry; Thakurpukur Vivekananda College, Calcutta University (1987)
M.Sc. in Chemistry. Calcutta University (1989)
Ph.D
Bose Institute /Calcutta University)(1999)
Title of the Thesis: Molecular Modeling of Protein and different Drugs

Contact Address:

Department of Chemistry, Raiganj University
P.O – Raiganj, Dist. Uttar Dinajpur, WB, Pin-733134
Email: asimbothra@gmail.com
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Research Interest: Computational and theoretical Chemistry, Molecular Modeling and comparative genomics

Specialization:

Physical Chemistry

Fellowships:

JOINT **CSIR-UGC NET** (National Eligibility Test)-JUNIOR Research FELLOWSHIP-1990

Award:

1. National Scholarship
2. **GATE** (Graduate Aptitude Test in Engineering)-1990

Conference/Seminar/Organization: Paper presented in State, National and International Seminar: 20
Participated in State, National and International Seminar: 12

Teaching Experience:

Nineteen Years UG and two years for PG

Research Experience:

Nineteen Years

Research Guiding Experience: Ph.D students

Total awarded candidates :07
Submitted-01
Post-Doctoral – Research Associate: 03

Completed Research Projects

Two

Ongoing Project :

Previous & Present Employment: Department of Chemistry, Raiganj university

Administrative Experience:

1. HOD (2003-2005 and 2008-2010 at Raiganj College (University College), and November, 2016 to till now in Raiganj University
2. Coordinator of NRC committee in Raiganj College (University College)
3. Coordinator in NAAC in Raiganj College (University College)
4. Coordinator in IQAC
5. Member of IQAC
6. Chairman of Board of studies

Financial Assistances from following Organisations : DBT, Govt. of India

Publications:

Books: Nil

Research Papers: 66

Technical Report: Nil

Advisory Editor: Nil

Special Lectures-14

Keynote Addresses: Nil

Country Visited: Nil

Editorial Board Member: One

REVIEWER of the following Books and Journals: Journal of molecular Modeling, Springer

Jury Member: Nil

LIST OF PUBLICATIONS:

RESEARCH PAPERS :

National: 14
International-52

List of some selected journals

1. Amitava Mandal, Shilpi Ghosh, Ashim Ghosh, Suranjan Shil, **Asim Kumar Bothra** and Pranab Ghosh*, 3-epihydroxy lup-20(29)-en-19(28)-olide: Partial synthesis, antitopoisomerase activity and 3D molecular docking, *Medicinal Chemistry Research* **2016, 25, 1087-1095**

2. Pal A, Banerjee R, Mondal UK, Mukhopadhyay S, **Bothra AK**: Deconstruction of archaeal genome depict strategic consensus in core pathways coding sequence assembly. *Plos One* 2015, 10(2): e0118245.

3. Bhaskar Bagchi, Shyamal Sharma, Abhik Chatterjee1, Pranab Ghosh and **Asim Kumar Bothra.** QSAR study and Molecular docking of 23-hydroxybetulinic acid derivatives as RMGP and HeLa cells inhibitorsCommun. Comput. Chem. Vol.3, No.3, pp.75-102, 2015

4. Sharma S, UK Mondal,S Mukhopadhyay,A Sen& **AK Bothra**(2014) Theoretical Approach For Ligand Based Drug Design Of Lpxc: A Key Enzyme Of Lipid A Biosynthesis. Pharmacophore 5(5).

5. PalA, UK Mondal,S Mukhopadhyay,A Sen& **AK Bothra** (2014) The Implication of Codon Usage Design and Expression Level in Determining the Nature of Selection and Functionality amongst the Amino Acid Biosynthetic Pathway coding sequences of *Arthrobacter sp.* FB24. *Current Bioinformatics*2014, 9(4), 470-480

6. Das B, UK Mondal, P. Ghosh, **& AK Bothra** (2013) Molecular dynamics simulation of chick Type IIa receptor protein tyrosine phosphatases sigma International Journal of Intregative Biology. 14(1) 1-6.

7. Sur S, S Saha, LS Tisa, **AK Bothra** &A Sen (2013). "Characterization of pseudogenes in members of the order Frankineae". 'Journal of Biosciences' 38(4): 727-732.

8. Molecular dynamics simulation of chick Type IIa receptor protein tyrosine phosphatasesBiswajit Das · Uttam Kumar Mondal · Pranab Ghosh · Asim Kumar Bothra ·International Journal of Integrative Biology 02/2013; 14(1):1-6.

9. Theoretical study of O6-methylguanine-DNA methyltransferase inhibitors,Dipanjan Sarkar, Subhasis Mukhopadhyay and Asim Kumar Bothra, Journal of Chemical and Pharmaceutical Research: Volume 5 Issue 12 2013 Page No: 1131-1139.

10. Das B, UK Mondal, S Sharma, P Ghosh, **AK Bothra** (2012) Molecular Docking of Triazine analogues,

Journal of Chemical and Pharmaceutical Research. 4(3) 1595-1600.

11. A theoretical investigation of cytotoxic activity of halogenated monoterpenoids from plocamiumcartilagineumBhaskarBagchi, Abhik Chatterjee, Pranab Ghosh **and Asim Kumar Bothra**. *J. Chem. Pharm. Res., 2012, 4(12):5076-5080*

12. Screening of Triazine Derivatives, Inhibitors of MAP-Kinase p-38 Alpha, through Mathematical Modeling and Molecular Modeling. Biswajit Das · Shyamal Sharma · Pranab Ghosh · Subhasis Mukherjee · AsimBothra.

13. **Amitava Mandal,** Shilpi Ghosh, **Asim Kumar Bothra,** Ashis Kumar Nanda, Pranab Ghosh,* Synthesis of friedelan triterpenoid analogs with DNA topoisomerase II inhibitory activityand their molecular docking studies., *Eur. J. Med. Chem*., 2012, 54, 137-143.

14. Chakraborty D, UK Mondal, **AK Bothra** &A Sen (2011) Molecular Dynamics Simulation of Hydrogenase Isoenzyme Formation Protein HypC. The IUP Journal of Biotechnology 5(3) 56-64.

15. Das B, UK Mondal, P. Ghosh, & **AK Bothra** (2011) Molecular dynamics simulation of human bifunctional glutamyl-proyl-tRNAsynthetase.Journal of Chemical and Pharmaceutical Research 3(4) 964-973.

16. Sharma, S., Bagchi, B., Mukhopadhyay, S., **Bothra, A.K.,** 2D QSAR studies of several potent aminopyridine, Anilinopyrimidine and Pyridine Carboxamide-based JNK inhibitors. Indian J Pharm Sci,2011. 73(2): p. 165-

17. Sen A, S Sur, LS Tisa, **AK Bothra,** S Thakur & UK Mondal (2010). "Homology modelling of nitrogenous iron proteins from three Frankia strains" Symbiosis' 50:37.

18. Mondal UK, A Sen & **A K. Bothra** (2010). “Homology modeling of the Cytolethaldistending toxin B gene of Helicobacter hepaticus ATCC 51449” International Journal of Interrogative Biology10(1):35-4

19. Sen A, S Sur, LS Tisa**, AK Bothra,** S Thakur & UK Mondal (2010) “Homology modelling of the *Frankia*nitrogenase iron protein”. ‘Symbiosis’ 50:37-44. DOI=10.1007/s13199-009-0035-9.

20. Mondal UK, B. Das, T.C. Ghosh. A. Sen. & **AK Bothra** (2008). “Nucleotide Triplet Based Molecular Phylogeny of Class I and Class II Aminoacyl t-RNA Synthetase in Three Domain of Life Process: Bacteria, Archaea, and Eukarya” *Journal of Biomolecular Structure & Dynamics, 26(3) 321-328*

Patent: Nil