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PRESENT POSITION

Scientist (Research and Development), at Central Institute of Medicinal and Aromatic Plants (CSIR-CIMAP), a CSIR Laboratory, Government of India, Lucknow, India.

EDUCATION

- * **Ph.D in Organic Chemistry, 2006**, Dr. B. R. Ambedker University (Agra University), Agra, Uttar Pradesh, India.
(Work done at Medicinal & Process Chemistry Division, Central Drug Research Institute, Lucknow, India).
- * **M.Sc. (Organic Chemistry) - 1999**, Department of Chemistry, Lucknow Christian College, Lucknow University, Lucknow, India.
- * **B.Sc. (Biology with chemistry) - 1996**, Lucknow Christian College, Lucknow University, Lucknow, India.
- * Certificate of Proficiency in German and English.

AWARDS AND HONORS

- * Awarded Post doctoral fellowship from Université du Québec à Trois-Rivières, Trois-Rivières, Québec, Canada (2007-2008).
- * Awarded Senior Research Fellowship of the Council of Scientific and Industrial Research, Government of India (2005-06).
- * Awarded Research Fellowship of Central Drug Research Institute, in a Project funded by Ministry of Health, Government of India (2001-04).
- * Qualified National Eligibility Test **July-2001** examination for Lecturership, conducted jointly by Council of Scientific and Industrial Research & University Grant Commission Government of India.
- * Merit Certificate in Inorganic Chemistry in the M. Sc. -I Examination-**1998**.
- * Awarded Bronze medal in the M. Sc. Examination-**1999**.

PROFESSIONAL EXPERIENCE

Post Doctoral Fellow at Université du Québec à Trois-Rivières, worked with Prof. Gervais Bérubé, Département de Chimie-Biologie, Université du Québec à Trois-Rivières, C.P. 500, Trois-Rivières, Québec, Canada, Since March 2006 up to September 2008.

PUBLICATIONS

1. Arvind Singh Negi, Devdutt Chaturvedi, **Atul Gupta**, S. Ray, Anila Dwivedy and M.M. Singh. **Amide derivatives of 9,11-seco-estra-1,3,5(10)-trien-11-oic acid as modified orally active estrogens with moderate estrogen antagonistic activity.** *Bioorganic Medicinal Chemistry Letters*, **2005**, *15*, *1*, 99-102.

2. **Atul Gupta**, Anila Dwivedy, Govind Keshri, Ramesh Sharma, Anil Kumar Balapure, Man Mohan Singh and Suprabhat Ray. **Rapid synthesis of 4-benzylidene and 4-[bis-(4-methoxyphenyl)-methylene-2-substituted phenyl-benzopyrans as potential selective estrogen receptor modulators (SERMs) using McMurry coupling reaction.** *Bioorganic Medicinal Chemistry Letters*, **2006**, *16*, *23*, 6006-6012.
3. **Atul Gupta**, Resmi Raghunandan, Atul Kumar, P. R. Maulik, Anila Dwivedy, Govind Keshri, Man Mohan Singh and Suprabhat Ray. **Amide derivatives of 2,3-diaryl acrylophenones as estrogen receptor binding ligands.** *Medicinal Chemistry*, **2007**, *3*, *3*, 241-253.
4. **Atul Gupta**, Reshmi Raghunandan, Atul Kumar, Prakash R. Maulik, Anila Dwivedy, Govind Keshri, Man Mohan Singh, Suprabhat Ray. **Synthesis of 3-phenyl-4-phenylvinyl benzopyranones and corresponding 2,2-dimethyl-benzopyrans with structural similarity to estradiol, as estrogen receptor ligands.** *Medicinal Chemistry*, **2007**, *3*, *5*, 446-454.
5. Daniel Rabouin, Valérie Perron, Blaise N'Zemba, **Atul Gupta**, René-C. Gaudreault and Gervais Bérubé. **Synthesis and Preliminary Biological Evaluation of Estrone Dimers.** *Letters in Drug Design and Discovery*, **2007**, *4*, 171-174.
6. **Atul Gupta**, Gloria Beazley, Jean Lee and Gervais Bérubé. **Synthesis of substituted triarylpyran through an unexpected intramolecular cyclization.** *Synthetic Communications*, **2007**, *37*, *12*, 2031-2037.
7. Soma Mandal, Gervais Bérubé, Éric Asselin, Iqbal Mohammad, Vernon J. Richardson, **Atul Gupta**, Saroj K. Pramanik, Arthur L Williams and Sanat K. Mandal. **A novel series of potent cytotoxic agents targeting G2/M phase of the cell cycle and demonstrating cell killing by apoptosis in human breast cancer cells.** *Bioorganic Medicinal Chemistry Letters*, **2007**, *17*, *17*, 4955-4960.
8. **Atul Gupta**, Suprabhat Ray. **Efficient and simple synthesis of substituted 3-phenyl, 7-methoxybenzopyrans as pseudo vitamin-D₃ analogues.** *Synthetic Communications*, **2007**, *37*, *18*, 3119-3126.
9. Denis Girard, Glenn Weagle, **Atul Gupta**, Gervais Bérubé, Camille Chapados. **Preparation and in vitro evaluation of tetrapyrrole ethanolamide derivatives as potential anticancer agents.** *Bioorganic Medicinal Chemistry Letters*, **2008**, *18*, *1*, 360-365.
10. **Atul Gupta**, Kasturi Lal, Indra Dwivedy, Suprabhat Ray. **Intramolecular cyclization of substituted 9,11-seco estrane under Friedel-Crafts reaction conditions.** *Synthetic Communications*, **2008**, *38*, *9*, 1425-1432.
11. Indra Dwivedy, **Atul Gupta**, Arvinder Grover, Vandana Srivastava, Man Mohan Singh, Suprabhat Ray. **Synthesis and in vivo evaluation of 11-substituted estradiol derivatives as anti-implantation.** *Bioorganic Medicinal Chemistry Letters*, **2008**, *18*, 4102-05.
12. **Atul Gupta**, Sanat K. Mandal, Valérie Leblanc, Caroline Descôteaux, Éric Asselin, Gervais Bérubé. **Synthesis and cytotoxic activity of benzopyran based platinum (II) complexes.** *Bioorganic Medicinal Chemistry Letters*, **2008**, *18*, 3982-87.
13. **Atul Gupta**, Suprabhat Ray. **Simple and efficient synthesis of (±)-Equol and related derivatives.** *Synthesis (Stuttgart)*, **2008**, 3783-86.
14. **Atul Gupta**, Suprabhat Ray. **Synthesis of steroidal mimics of estrogens using Wittig and McMurry reactions.** *Letters in Organic Chemistry*, **2008**, *5*, *8*, 640-43.
15. **Atul Gupta**, Govind Keshri, M.M. Singh, Suprabhat Ray. **In-vivo evaluation of substituted 2,3-diaryl acrylophenone amide derivatives as antiimplantation agents.** *Medicinal Chemistry Research*, **2009**, *18*, 43-48.
16. **Atul Gupta**, Rachid Gueddah, Gervais Bérubé. **Simple and efficient synthesis of steroidal hybrids of estrogens and vitamin-D₃.** *Synthetic Communications*, **2009**, *39*, *1*, 61-69.

17. Emilie Froehlich, **Atul Gupta**, Josée Provencher-Mandeville, Éric Asselin, Heidar-Ali Tajmir-Riahi and Gervais Bérubé. **Study of DNA interactions with steroidal and non-steroidal estrogen-platinum (II) based anticancer drugs.** *DNA and Cell Biology*, **2009**, *28*, 1, 1-9.
18. **Atul Gupta**, Ramesh Sharma, Anil Kumar Balapure, Govind Keshri, Man Mohan Singh, Suprabhat Ray. **Evaluation of in-vivo anti-implantation and in-vitro anti-proliferative activities of substituted 3-phenyl-4-phenylvinyl benzopyranone derivatives.** *Letters in Drug Design and Discovery*, **2009**, *6*, 1, 46-50.
19. **Atul Gupta**, Govind Keshri, M.M. Singh, Suprabhat Ray. **In-vivo evaluation of substituted 3-phenyl, 7-methoxy benzopyrans as modified estrogens.** *Medicinal Chemistry Research*, **2010**, *19*, 25–32.
20. Pragya Singh, Uzma Faridi, Suchita Srivastava, J.K. Kumar, M.P. Darokar, S. Luqman, Karuna Shanker, C.S. Chanotiya, **Atul Gupta**, M.M. Gupta, Arvind S. Negi. **Design and synthesis of C-ring lactone and lactam based Podophyllotoxin analogues as anticancer agents,** *Chem. Pharm. Bull.* **2010**, *58*, 2, 242-46.
21. **Atul Gupta**, Pijus Saha, Caroline Descôteaux, Valérie Leblanc, Éric Asselin, Gervais Bérubé. **Design, synthesis and biological evaluation of estradiol-chlorambucil hybrids as anticancer agents.** *Bioorganic Medicinal Chemistry Letters*, **2010**, *20*, 5, 1614-18.
22. Glenn Weagle, **Atul Gupta**, Gervais Bérubé, Camille Chapados. **Evaluation of in-vivo biological activities of tetrapyrrole ethanamide derivatives as novel anticancer agents.** *Journal of Photochemistry and Photobiology-Sec-B*, **2010**, 100 44-50.
23. Caroline Descôteaux, Valérie Leblanc, Kevin Brasseur, **Atul Gupta**, Éric Asselin, Gervais Bérubé **Synthesis of D- and L-tyrosine-chlorambucil analogs active against breast cancer cell lines.** *Bioorganic Medicinal Chemistry Letters*, **2010**, *20*, 24, 7388-7392.
24. A.P. Prakasham, A.K. Saxena, Suaib Luqman, Debabrata Chanda, Tandeep Kaur, **Atul Gupta**, D.K. Yadav, C.S. Chanotiya, Karuna Shanker, F. Khan, Arvind S. Negi. **Synthesis and anticancer activity of 2-benzylidene indanones through inhibiting tubulin polymerization,** *Bioorganic & Medicinal Chemistry*, **2012**, *20*, 9, 3049-57.
25. Swati Parihar, **Atul Gupta**, Amit K. Chaturvedi, Jyoti Agarwal, Suaib Luqman, Bendangla Changkija, Murlu Manohar, Debabrata Chanda, C.S. Chanotiya, Karuna Shanker, Anila Dwivedi, Rituraj Konwar, Arvind S. Negi. **Gallic acid based steroidal phenstatin analogues for selective targeting of breast cancer cells through inhibiting tubulin polymerization,** *Steroids*, **2012**, *77*, 8–9, 878-886.
26. Imran Ahmad, Jay Prakash Thakur, Debabrata Chanda, Dharmendra Saikia, Firoz Khan, Shivani Dixit, Amit Kumar, Rituraj Konwar, Arvind Singh Negi, **Atul Gupta**, **Syntheses of lipophilic chalcones and their conformationally restricted analogues as antitubercular agents,** *Bioorganic Medicinal Chemistry Letters*, **2013**, *23*, 5, 1322-1325.
27. Hardesh Kumar Maurya, Prema G Vasudev, **Atul Gupta**. **A Regio Selective Synthesis of 2,6-Diarylpyridines,** *RSC Advances*. **2013**, *3*, 12955-12962.
28. Hardesh K. Maurya, Ruby Verma, Saba Alam, Shweta Pandey, Sandeep Sharma, Kishore K Srivastava, Neelam S. Sangwan, Arvind S. Negi, **Atul Gupta**, **Studies on substituted benzo[h]quinazolines, benzo[g]indazoles, pyrazoles, 2,6-diarylpyridines as anti-tubercular agents,** *Bioorganic Medicinal Chemistry Letters*, **2013**, *23*, 5844-5849.

Review Articles:

1. Structure Function similarity between vitamin D₃ and estrogens: effective drug design for vitamin D₃- and estrogen dependent disorders. Suprabhat Ray and **Atul Gupta**. (Invited Review) *Drugs of the Future*, **2006**, *31*, 1, 65.
2. Current status on development of steroids as anticancer agents (Invited Review) **Atul Gupta**, B. Sathish Kumar, Arvind S. Negi, *Journal of Steroid Biochemistry and Molecular Biology*, **2013**, Article in-press.

3. Arvind S. Negi, **Atul Gupta**, A A Hamid, Combating Malaria with Plant Molecules: An Update, *Current Medicinal Chemistry*, **2013**, *Article in-press*.

Patents:

1. Arvind Singh Negi, A P Prakasham, A K Saxena, S. Luqman, D Chanda, T Kaur, **Atul Gupta**. Anticancer and tubulin polymerization inhibition activity of benzylidene indanones and process of preparing the same, *Indian patent NF133NF2011*.
2. Arvind Singh Negi, A P Prakasham, A K Saxena, S. Luqman, D Chanda, T Kaur, **Atul Gupta**. Anticancer and tubulin polymerization inhibition activity of benzylidene indanones and process of preparing the same, *US patent applied*.

PAPERS PRESENTED AT CONFERENCES

1. **Atul Gupta**, Atul Kumar, Anila Dwivedy, Govind Keshri, Man Mohan Singh and Suprabhat Ray. **Long chain amide derivatives of 2,3-diaryl acrylophenones as estrogen antagonists**, presented in IInd International symposium on Current Trends in Drug Discovery Research (**CTDDR-2004**) at Central Drug Research Institute, Lucknow, India. (*Abstract Published*) *Medicinal Chemistry Research*, **2004**, *12*, 100-101.
2. **Atul Gupta**, Caroline Descôteaux, Josée Provencher-Mandeville, Geoffroy Bélanger, Céline Van Themsche, Valérie Leblanc, Sophie Parent, Eric Asselin and Gervais Bérubé. **Site directed chemotherapy; Development of innovative estrogen-cytotoxic hybrid molecules**, presented in IIIrd International symposium on Current Trends in Drug Discovery Research (**CTDDR-2007**), Central Drug Research Institute, Lucknow, India. (*Abstract Published*) *Medicinal Chemistry Research*, **2007**, *15*, 1/6, 110-111.
3. Caroline Descôteaux, Josée Provencher-Mandeville, Céline Van Themsche, Valérie Leblanc, Geoffroy Bélanger, Sophie Parent, **Atul Gupta**, Eric Asselin and Gervais Bérubé. **Development of unique estrogen-cytotoxic hybrid molecules showing affinity for the estrogen receptor and *in vivo* anticancer activity**, presented in 98th Meeting of American association for Cancer Research, **April 14-18, 2007**, Los-Angelis, CA, USA.
4. Caroline Descôteaux, Martine Loranger, Yancee Bourassa, **Atul Gupta**, Éric Asselin et Gervais Bérubé. **Fonctionnalisation efficace de la 17 β -oestradiol en position 16 α du noyau stéroïde**, presented in 75^e Congrès de l'Acfas, Université du Québec à Trois-Rivières, **Mai 2007**, Trois-Rivières, Canada.
5. **Atul Gupta**, Glenn Weagle, Gervais Bérubé, Camille Chapados. **Synthesis and biological activity of tetrapyrrole ethanalamides as novel anticancer agents**, presented in 12th International Conference on the *Interface of Chemistry-Biology in Biomedical Research*, **February 22-24, 2008**, Birla Institute of Technology and Science, Pilani, Rajasthan, India.
6. **Atul Gupta**, Valérie Leblanc, Sanat Kumar Mandal, Eric Asselin and Gervais Bérubé. **Synthesis of new benzopyran based platinum (II) complexes and cytotoxic activity on breast cancer cell lines**, presented in 99th Meeting of American association for Cancer Research, **April 12-16, 2008**, San-Diego, CA, USA.
7. Pragya Singh, Uzma Faridi, Suchita Srivastava, J.K. Kumar, M.P. Darokar, S. Luqman, Karuna Shanker, C.S. Chanotiya, **Atul Gupta**, M.M. Gupta, Arvind S. Negi. **Synthesis and biological evaluation of pseudo Enterolactone derivatives as anticancer agents**, presented in Ist Symposium on *Medicinal Chemistry and Pharmaceutical Sciences* **March 24-26, 2009**, organized by Central Drug Research Institute, Lucknow and NIPER, Raibareli, India.
8. **Atul Gupta**, J.K. Kumar, Arvind S. Negi, **Synthesis of substituted benzopyrans as selective estrogen receptor modulators (SERMs)**, presented in CIMAP golden jubilee national symposium on *Future trends in medicinal and aromatic plants technologies and strategies* **November 17, 2009** at Indian Institute of Chemical Technology, Hyderabad, India.

9. Swati Parihar, D. Chanda, V. Lakshma nayak, Bendangla Changkija, J. K. Kumar, karuna Shankar, Chandan S. Chanotiya, **Atul Gupta**, Rituraj Konwar, Arvind Singh Negi. **Design and synthesis of gallic acid based steroidal stilbenes as new anticancer agents against hormone dependent breast cancer**, presented in International symposium on *Cancer Chemoprevention and Translational Research*, **December 21, 2009**, organized by Jawahar Lal Nehru University New Delhi, India.
10. Imran Ahmad, Jyoti, Shibani Lahiri, Divya Singh, **Atul Gupta**, **Synthesis of bone selective steroidal hybrides of estrogen and vitamin-D₃**, presented in Vth International symposium on Current Trends in Drug Discovery Research (**CTDDR-2013**), Central Drug Research Institute, Lucknow, India.
11. Hardesh Kumar Maurya, Imran Ahmad, Vinay Pathak, **Atul Gupta**, An efficient approach for the synthesis of enaminyopyrazoles : aversatile synthon, presented in Vth International symposium on Current Trends in Drug Discovery Research (**CTDDR-2013**), Central Drug Research Institute, Lucknow, India.

ORAL PRESENTATION

1. On the topic ; **Estrogen; thier carcinogenecity and preventive measures**, presented in International symposium on *Cancer Chemoprevention and Translational Research*, **December 21, 2009**, at School of Life Sciences, Jawahar Lal Nehru University New Delhi, India.
2. On the topic ; **Designing and synthesis of anticancer agents** at Bioteck park, Lucknow on 25-Feb-2010

PROFESSIONAL SKILLS (REVIEWER)

Medicinal Research Reviews, Mini Reviews in Medicinal Chemistry, Bioorganic and Medicinal Chemistry Letters, Bioorganic and Medicinal Chemistry, Medicinal Chemistry Research, Steroids, Computational Biology and Drug Design etc.

MEMBER OF SCIENTEFIC SOCIETIES

- ***Active member** of American Association for Cancer Research, Philadelphia, PA (USA).
- ***Member** of American Chemical Society, Washington, DC 20036, (USA).
- ***Fellow** of Indian Chemical Society, Kolkata (India)
- ***Life Member** of the Indian Science Congress Association, Kolkata (India).
- ***Life Member** of Chemical Research Society of India, Bangalore (India).
- ***Life Member** of Nuclear Magnetic Resonance Society of India, Bangalore (India)
- ***Life Member** of Indian Association for Cancer Research, Mumbai, India
- ***Life Member** of Indian Society of Chemists and Biologists, Lucknow, India
- ***Life Member** of Society of Biological Chemists, Bangalore (India).

RESEARCH INTERESTS

Development of new synthetic methodologies, Receptor based designing and synthesis of biologically active molecules such as Selective Estrogen Receptor Modulators (Synthetic Chemistry).