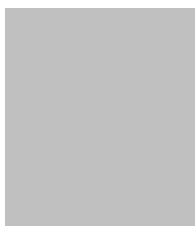


PERSONAL INFORMATION **GAURAV ASHOK BEDSE**

Department of Physiology and Pharmacology "Vittorio Erspamer", Sapienza University of Rome, Piazzale Aldo Moro 5, 00185 Rome
+ 39 06 49912520
gaurav.bedse@uniroma1.it

Sex Male | Year of Birth 1985 | Nationality Indian

JOB APPLIED FOR **Research associate position**

WORK EXPERIENCE

(July 2008- October 2010)

Research Scientist

Drug Discovery-Clinical Candidate Optimization, Advinus Therapeutics Pvt Ltd, Pune India
(<http://www.advinus.com/>)

- Expertise in: *in-vitro* and *in-vivo* drug metabolism, drug permeability studies, bioanalytical method development and validation(HPLC and LC-MS)
- Experience of screening of more than 800 new chemical entities for metabolic stability, CYP inhibition, solubility assays
- Experience in Discovery and Development of Novel Small Molecule Therapeutics for the Treatment of Diabetes, Pain and Inflammation, Parkinsons disease, Cancer and Irritable Bowel Syndrome
- Proactively worked on all research projects, addressed issues related to DMPK at various stages of pre-clinical candidate development. Involved and supported extensively all research projects from optimizing formulation to overseeing pharmacokinetic and bio-analysis work.

EDUCATION AND TRAINING

(Nov 2010- Present)

PhD fellow

Department of Physiology and Pharmacology, Sapienza University of Rome, Italy.

- Thesis title: Emerging Role of Endocannabinoid System in Stress Response in Physiological and Pathological Conditions
- Expertise in: laboratory animal handling, brain slice preparation, *in situ* hybridization, immunohistochemistry, stereotaxic injections into brain nuclei, behavioral characterization in anxiety and depressive like models and neurotransmitter's analysis in brain tissues/ microdialysis sample by HPLC
- Thesis focused on effects of FAAH inhibition on neurotransmitters levels in stressed rats using microdialysis and on HPA axis and its mediators like corticosterone, ACTH, neuronal activation marker (c-fos), CRH, POMC and AVP mRNA expression. Thesis also focused on impact of pathological stress on endocannabinoid system by evaluating CB1 receptor expression in triple transgenic mouse model of Alzheimer's Disease
- Doctoral thesis conducting with Dr. Silvana Gaetani

(July 2006- June 2008)

M.S. (Pharm.)

Pharmaceutical analysis, Dept. of Pharmaceutical Analysis, National Institute of Pharmaceutical Education and Research (NIPER), S.A.S. Nagar, Mohali, India

- Qualified with CGPA 8.8 on a 10 point scale
- Thesis: LC and LC-MS/TOF studies on forced decomposition behavior of some antiretrovirals and development of stability-indicating LC and LC-MS methods for individual drugs as well as their fixed-dose combinations
- Gained in depth knowledge of liquid chromatography and mass spectrometry (HPLC-UV, HPLC-fluorescence, HPLC-ECD, LC-MS/MS, LC-MS-TOF)
- Master thesis conducted with Prof. Saranjit Singh

(2002-2006)

Bachelor of Pharmacy

Qualified with 72.9% (First class with distinction) from University of Pune, India

PERSONAL SKILLS

Mother tongue(s) Marathi and Hindi

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C2
Italian	B1	B1	B1	A2	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Team work: I have worked for more than 5 years in various teams consisting international scientist to do research activities.
- Good scientific communication skills gained through my experience as research scientist in Advinus therapeutics and as a Ph.D student in Italy where I actively participated in daily working group meetings, scientific meetings with collaborators and delivered seminars

Organisational / managerial skills

- While working for Advinus therapeutics Pvt. Ltd. one of my responsibility was to train new team members and trainees
- During my PhD I organised a club seminars in the department

Computer skills

- Competent with Microsoft Office programs, Image J software, GraphPad Prism 4 biostatistics software, Endnote (reference manager software)
- Creating innovating diagrams in neuroscience with help of adobe Photoshop, microsoftpower point, chemoffice

ADDITIONAL INFORMATION**Publications**

- **Gaurav Bedse**, Adele Romano, Silvia Cianci, Angelo Michele Lavecchi, Maurice R. Elphick, Frank M. LaFerla, Gianluigi Vendemiale, Vincenzo Cuomo, Tommaso Cassano and Silvana Gaetani Altered distribution patterns of CB1 receptor in the triple transgenic mice model of Alzheimer disease. (accepted in Journal of Alzheimer's Disease, 2013)
- Simon Trent, Rachel Dean, Bonnie Veit, Tommaso Cassano, **Gaurav Bedse**, Obah A. Ojarikre, Trevor Humby, William Davies; Biological mechanisms associated with increased perseveration and hyperactivity in a genetic mouse model of neurodevelopmental disorder. Psychoneuroendocrinology, (2013) 38, 1370-1380
- Simon Trent, Tommaso Cassano, **Gaurav Bedse**, Obah A Ojarikre, Trevor Humby and William Davies Altered Serotonergic Function may Partially Account for Behavioral Endophenotypes in Steroid Sulfatase-deficient Mice. Neuropsychopharmacology (2012) 37, 1267-1274.
- **Gaurav Bedse**, Vijay Kumar and Saranjit Singh, Study of forced decomposition behavior of lamivudine using LC and LC-MS/TOF. Journal of Pharmaceutical and Biomedical Analysis, 49 (2009) 55-63.
- Saranjit Singh, Amrit Paudel, **Gaurav Bedse**, Rishikesh Thakare, Vijay Kumar Regional Stability Guidelines: India, Chapter 4: Global Stability Practices by M. Zahn, in Handbook of Stability Testing in Pharmaceutical Development Regulations, Methodologies, and Best Practices, Springer New York, Kim Huynh Ba (Ed.), pp. 66-69 (2009).

- Publications (Submitted)
- Adele Romano, Roberto Coccarello, Giacomo Giacobazzo, **Gaurav Bedse**, Anna Moles and Silvana Gaetani; Oleylethanolamide: a novel potential pharmacological alternative to cannabinoid antagonist for the control of appetite. (Submitted to BioMed Research International)
 - Chiara Schepisi, Silvia Cianci, **Gaurav Bedse**, Silvana Gaetani, Paolo Nencini Differences in the Structure of Drinking, CART Expression and Dopamine Turnover Between Polydipsic and Non Polydipsic Rats in the Quinpirole Model of Psychotic Polydipsia, (Submitted to Psychopharmacology)
 - **Gaurav Bedse**, Tommaso Cassano, Roberto Colangeli, Angelo M. Lavecchia, Vincenzo Cuomo and Silvana Gaetani, Role of the basolateral amygdala in mediating the effects of the fatty acid amide hydrolase inhibitor URB597 on HPA axis response to stress. (ready to submit)
- Poster presentations
- **Gaurav Bedse**, Roberto Colangeli, Tommaso Cassano, Vincenzo Cuomo and Silvana Gaetani, Neurochemical effects of fatty acid amide hydrolase inhibitor (URB597) on stressed rats (presented at Society for Neuroscience, Nov. 2013 San Diego)
 - Michele Lavecchia, **Gaurav Bedse**, Adele Romano, Maurice Elphick, Silvana Gaetani, Tommaso Cassano and Vincenzo Cuomo, Distribution patterns of CB1 mRNA and protein in a triple transgenic mouse model of Alzheimer's disease: a longitudinal study. (Presented at The Italian Society Of Pharmacology (SIF), October 2013)
 - **Gaurav Bedse**, Vijay Kumar and Saranjit Singh. Stress Studies and Development of A Stability- Indicating High Performance Liquid Chromatographic (HPLC) Method for Lamivudine. (Presented at 59th Indian Pharmaceutical Congress 2008, Varanasi, India)
 - **Gaurav Bedse** and Saranjit Singh, MSⁿ and H/D Exchange Studies on Abacavir and Structural Elucidation of its Hydrolytic Degradation Products. (Presented at Chandigarh scientific Congress, CHASCON 2008, Chandigarh, India)
- Collaborative Projects
- Triple transgenic mouse model of AD: The main goals of this project were to 1) characterize A- β 42 and tau protein expression in different brain regions 2) characterize endocannabinoid signaling in these mice 3) behavioral characterization in anxiety and depressive like models and 4) quantification of neurotransmitter levels in brain areas affected by AD pathology.
 - Sts-deficient mouse model of genetic neurodevelopment disorder: behavioral characterization in spatial navigation, object location task and its correlation to neurotransmitters levels
- Honours and awards
- Merit based International PhD fellowship from "Sapienza University of Rome, Italy", Nov 2010-Oct 2013
 - "Individual Brilliance Award" for going beyond call of duty in planning and executing Metabolic stability, CYP inhibition and Solubility assays single handedly to meet the Drug Discovery program goals, from Advinus Therapeutics, Pune, India, 2009
 - Secured 10th all India rank in M.S. Entrance examination of NIPER, 2006
 - Merit based scholarship of Rs 60,000/- per annum for 2 years from Government of India, 2006-2008
 - Sir Ratan Tata Trust Merit Scholarship in 2005 and 2006
- References
- | | |
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| <p>Dr. Silvana Gaetani
Associate Professor
Dept. of Physiology and Pharmacology "V. Erspamer" Sapienza University of Rome, Rome, 00185, Italy
Tel.: 39 06 4991 2520
Email: silvana.gaetani@uniroma1.it</p> | <p>Dr. Tommaso Cassano
Assistant Professor
Dept. of Clinical and Experimental Medicine, University of Foggia, Viale L. Pinto 1, Foggia, 71100, Italy.
Tel.: +39 0881 588042
Email: tommaso.cassano@unifg.it</p> |
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I hereby certify that the above information is true and correct to the best of my knowledge and belief.

Date: 28th December 2013



Gaurav Bedse
PhD fellow