APPENDICES

Appendices

Publications

From Thesis

- **Priyadeep Bhutani,** Prabhakar K. Rajanna & Atish T. Paul (2020). Impact of quercetin on pharmacokinetics of quetiapine: insights from *in-vivo* studies in Wistar rats. Xenobiotica, 50(12), 1483-1489.
- **Priyadeep Bhutani,** Rekha U, Shivakumar H N, Prabhakar K Ranjanna & Atish T. Paul (2019). Rapid and cost- effective LC–MS/MS method for determination of hydroxycitric acid in plasma: Application in the determination of pharmacokinetics in commercial Garcinia preparations. Biomedical Chromatography, 34(10), e4902.
- **Priyadeep Bhutani,** Gaurav Joshi, Nivethitha Raja, Namrata Bachchav, Prabhakar K Rajanna, Hemant Bhutani, Atish T. Paul & Raj Kumar. US FDA Approved Drugs from 2015 - June 2020: A Perspective (Under Revision)
- **Priyadeep Bhutani,** Prabhakar K. Rajanna & Atish T. Paul. Impact of glycyrrhizin on pharmacokinetics of quetiapine (Under Communication)
- **Priyadeep Bhutani,** SriRavali Karnam, Prabhakar K. Rajanna & Atish T. Paul. UPLC-MS/MS assisted bioanalytical method development and validation for the simultaneous determination of Glycyrrhizin, Glycyrrhetinic acid, Quercetin, and Quetiapine: Study of its pharmacokinetic applications in the rat model (Under Communication)

Other publications

- Gaurav Joshi, Aabid Abdullah Wani, Sahil Sharma, **Priyadeep Bhutani**, Prasad V. Bharatam, Atish T. Paul & Raj Kumar (2018). Unanticipated cleavage of 2-nitrophenyl-substituted N-formyl pyrazolines under Bechamp conditions: Unveiling the synthesis of 2-aryl quinolines and their mechanistic exploration via DFT studies. *ACS Omega, 3* (12), 18783-18790.
- **Priyadeep Bhutani,** Senthilkumar Murugesan, Anoop Kumar, Murali Subramanian & Koiram Rajanna Prabhakar (2018). Offline derivatization LC-MS/MS method for simultaneous estimation of vanillin and vanillic acid in guinea pig plasma. Bioanalysis, 10 (3), 131-142.
- **Priyadeep Bhutani**, Devang Shah, Ninad Varkhede, Sandhya Mandlekar, Silvi Chacko & Murali Subramanian (2016). Absolute quantification of imipramine and its metabolites in vivo utilizing calibrators from radio-labelled in vitro incubations. Bioanalysis, 8 (4), 297-309.

Conferences

- Presented poster titled "*Pan inhibitor cocktail to stabilise prodrugs in blood*" at Applied Pharmaceutical Analysis India organized by The Boston Society at Ahmedabad during February 2020.
- Delivered seminar on "*Introduction to LC-MS/MS and its application to metabolite identification*" at International Conference of SSX India organized by Society for the study of Xenobiotics at Indian Institute of Science (IISc), Bangalore during September 2019.
- Presented poster titled "*Oxidative Metabolism of Phthalazine by an Unknown Oxidase in Guinea Pig Plasma*" and organizing committee member of International Conference of SSX India organized by Society for the study of Xenobiotics at Indian Institute of Science (IISc), Bangalore during October 2018.

Brief Biography of the Student

Priyadeep Bhutani is senior scientist in Pharmaceutical Candidate Optimization (PCO) department at Biocon Bristol Myers Squibb R&D Centre (BBRC), Syngene International Limited, Bangalore, India. She earned her Bachelors and Masters of Pharmacy (Pharmaceutics) from Panjab University, Chandigarh. She was recipient of University gold medal during Masters in Pharmacy and earned all India GATE rank 2 during 2002. During her Masters, she worked on QSPR and developed a software for predicting dissolution rate kinetics. Over the last ~15 years, she has been working in different roles of increasing responsibilities at Ranbaxy, Advinus (now Eurofins), and BBRC, Syngene, Bangalore. She is an established expert in the area of bio-analysis, drug metabolism, modelling and have presented in international conferences and published industrial research in highly reputed peer-review journals. She has over 14 publications to his credit. She has extensive experience in multiple areas of drug metabolism and pharmacokinetics including bioanalysis, biotransformation of xenobiotics and drug discovery, lead optimization and preclinical pharmacokinetic studies. Her research interests include understanding drug-drug and herb-drug interactions in nonclinical animal models. She got enrolled in PhD from BITS Pilani in the year 2016.

Brief Biography of the Supervisor

Dr. Paul Atish Tulshiram is currently Assistant Professor in the Department of Pharmacy. He completed his Bachelors in Pharmacy from University of Pune (Maharashtra). He pursued M.S. (Pharm.) and Ph.D. in Natural Products from National Institute of Pharmaceutical Education and Research (NIPER, S.A.S Nagar, Punjab). After completion of his doctorate, he joined the research group of Prof. Ikhlas Khan as Postdoctoral Research Associate at the National Center for Natural Product Research (University of Mississippi, USA). His current research interest is identification of pancreatic lipase inhibitory natural products, chromatographic analysis of botanicals and synthesis of natural products inspired analogues for obesity management. He has 03 research grants from agencies such as DST-SERB, DST (SEED), DBT etc. and has completed 02 DST projects. He has published 30 research articles in reputed international journals and has also contributed 24 official monographs on polyherbal formulations in The Ayurvedic Pharmacopoeia of India. Currently he is supervising 5 Ph.D. students. He is a reviewer for various journals of reputed publishers such as Bentham, Elsevier, ACS etc. and also for funding agencies such as DST (New Delhi), South African Medical Research Council etc.

Brief Biography of the Co-Supervisor

Dr. Prabhakar K.R. is currently Senior Principal Investigator in the Pharmaceutical Candidate Optimization (PCO) department at Biocon Bristol Myers Squibb R&D Centre (BBRC), Syngene International Limited, Bangalore, India. He received his Masters and Ph.D. in the field of Experimental Pharmacology from Manipal Academy of Higher Education, Manipal. His Ph.D. research work was focused on 'radioprotection studies on bioactivity guided fraction/s of *Coronopus didymus* and a serendipitously identified ninhydrin-proline adduct'. He has more than 15 years of experience in academic and industrial research in the areas of preclinical, clinical bioanalysis and DMPK. Prior to joining BBRC in 2014, he worked in the drug metabolism and pharmacokinetics department of AstraZeneca India at Bangalore. Before that, he had roles of increasing responsibilities at Advinus Therapeutics (Now Eurofins), Sitec laboratories and Manipal AcuNova. He is a certified Project Management Professional (PMP) and has actively contributed to scientific literature. Overall, he has about 50 publications in peer-reviewed journals to his credit.