

### PERSONAL INFORMATION **Piyush Jain**

#### WORK EXPERIENCE

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June 2021- Present **Pharmacovigilance assessor**  
Federal Agency for Medicines and Health Products (Belgium)  
Periodic Safety Update Report assessment (EU-centralized and BE national products)  
Risk Management Plan assessment (EU-centralized and BE national products)

March 2016-September 2018 **Postdoctoral Research Fellow**  
KU Leuven (Belgium)  
Developed a routine laboratory method for long-term preservation of human enteric tissue and neurons

October 2018-June 2021 **Postdoctoral Research Fellow**  
Fonds Wetenschappelijk Onderzoek Vlaanderen (FWO) (Belgium)  
Investigated and being a part in the discovery of local immune response of food antigens in mast cells mediated abdominal pain in irritable bowel syndrome.  
Designing and implementation of preclinical and clinical research projects  
Trained master and Ph.D. students to advanced microscopy techniques.  
Written scientific and medical abstracts, posters, manuscripts and grant proposals.

March 2015-February 2016 **Researcher (Ph.D student - visiting fellow)**  
Agency for Education and Internationalisation (OeAD) - Austria (Italy)  
Investigated and shed a light on the role of TRPA1 channels in somatic pain in experimental colitis  
Successfully established collaboration with host and native institutions

October 2011-December 2014 **Researcher (Ph.D student)**  
Medical University of Graz (Austria)  
Investigated and identified neuronal and endocrine mechanisms of visceral hypersensitivity (VHS) in a mouse model of stress and colitis  
Specialized in in-vivo animal modeling and behavioral neuroscience  
Published articles in many peer-review international journals

January 2011-August 2011 **Assistant professor**  
BBSIPAS, Noida, UPTU University (India)  
Teaching pharmacology and hospital pharmacy to Bachelor students of pharmacy.  
Responsible for animal house management and ethics.

August 2007-June 2008 **Lecturer**  
RKDF Institute, Indore, RGPV University (India)  
Teaching pharmacology and hospital pharmacy to Bachelor students of pharmacy.

#### EDUCATION AND TRAINING

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October 2011-March 2016 **Ph.D (Neuroscience)**  
Medical University of Graz (Austria)

June 2008-June 2010 **Master in Pharmacy, specialization: Pharmacology**  
JSS University, Mysore (India)

June 2003-June 2007	<b>Bachelor in Pharmacy</b> RGPV University, Bhopal (India)
February 2021-March 2021	<b>Nederlands language certificate (A2)</b> ILT INSTITUUT VOOR LEVENDE TALEN (Belgium) Writing, Listening, Reading skills, Speaking
February 2021-February 2021	<b>Good Clinical Practice (GCP) certificate course</b> European Forum for Good Clinical Practice, Brussels and KU Leuven, (Belgium) Interactive Training in Applied GCP for Investigators & Site Personnel Good Clinical Practice and its Implications on your Clinical Studies
February 2016-February 2016	<b>FELASA category B - Introduction to laboratory animals certificate course</b> Vetmeduni Vienna (Austria) Education and training to carry out animal experiments

## ADDITIONAL INFORMATION

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<b>Expertise</b>	<p>I am a Patient Representative.</p> <p>Language</p> <p>Proficient in spoken and written English, Hindi (native) &amp; Dutch (A2)</p> <p>Personnel</p> <p>Strong communication/presentation skills</p> <p>Presentations in international conferences and seminars: 35 (oral: 5, poster: 30)</p> <p>Project management: managed three research projects; organizing, scheduling, follow up</p> <p>Professional</p> <p>Planning and conducting experiments, analyze, interpret and present data in a clear way</p> <p>Writing detailed and summarized project progress reports</p> <p>Proficient in writing manuscript and grant application as per guidelines (journal-specific, ICMJE)</p> <p>Total articles published: 12 (total impact factor: 102), Highest impact factor for articles: Nature 42.77, Gut 19.81, &amp; Brain 11.33 (Citations 289; h-index 9). Abstracts published: 30.</p> <p>Link: <a href="https://scholar.google.be/citations?user=EC8luS0AAAAJ&amp;hl=en">https://scholar.google.be/citations?user=EC8luS0AAAAJ&amp;hl=en</a></p> <p>Writing research protocols for preclinical and clinical studies for ethical approval</p> <p>As per regulation of Ethics committee UZ, Leuven in accordance with ICH-GCP; the EU regulation for general data protection (2016/679), the Belgian law on patient's rights of 22/08/2002</p> <p>As per animal ethics committee in accordance with CPCSEA and institute guidelines</p> <p>Patient counseling, counselor at pharmacovigilance center</p> <p>Trained in a pharma industry (Symbiotec Pharma, India)</p> <p>Software: MS Office, Graph Pad Prism, SPSS, Sigmaplot</p> <p>Experimental</p> <p>In-vivo: behavioral tests and pain sensitivity tests, blood collection and drug administration by different routes in mice</p> <p>Ex-vivo: live imaging in submucosal mast cells, calcium imaging of submucosal enteric neurons (human and mice), micro-dissection of mouse brain tissue, Isolation of ganglion (dorsal root, trigeminal) from mice, cell isolation from human intestine and colon for flow cytometry (BD FACS CANTO II), tissue culture, Western blot</p> <p>Microscopy: immunofluorescence staining and analysis, live imaging in mice and human tissue, Microscopes and software: epifluorescence Olympus, Upright Zeiss Examiner, Zeiss LSM780 &amp; 880 Meta Confocal, softwares: TILL Vision, IGOR PRO, IMARIS, ImageJ</p>
<b>Publications</b>	<p>Articles in internationally academic reviewed journals</p> <p>Fortea, M*, Jain, P*, Demedts, I., Tack, J., Vanuytsel, T., Cirillo, C., Vanden Berghe, P. (2021). Live Imaging of Primary Neurons in Long-Term Cryopreserved Human Nerve Tissue. <i>ENEURO</i>, 8 (6), Art.No. ARTN 0388-21. doi: 10.1523/ENEURO.0388-21.2021 Open Access (IF 4.08)</p> <p>*Equal contribution as first author</p> <p>Javier Aguilera-Lizarraga*, Morgane V. Florens*, Maria Francesca Viola#, Piyush Jain#, Lisse Decraecker, Iris Appeltans, Maria Cuende-Estevez, Naomi Fabre, Kim Van Beek, Elisa Perna,</p>

Dafne Balemans, Nathalie Stakenborg, Stavroula Theofanous, Goele Bosmans, Stephanie U. Mondelaers Gianluca Matteoli, Sales Ibiza Martinez, Cintya Lopez-Lopez, Josue Jaramillo-Polanco, Karel Talavera, Yeranddy A. Alpizar, Thorsten B. Feyerabend, Hans-Reimer Rodewald, Ricard Farre, Frank A. Redegeld, Jiyeon Si, Jeroen Raes, Christine Breynaert, Rik Schrijvers, Cedric Bosteels, Bart N. Lambrecht, Scott D. Boyd, Ramona A. Hoh, Deirdre Cabooter, Maxim Nelis, Patrick Augustijns, Sven Hendrix, Jessica Strid, Raf Bisschops, David E. Reed, Stephen J. Vanner, Alexandre Denadai-Souza\*, Mira M. Wouters\*, Guy E. Boeckxstaens\*. Local immune response to food antigens drives meal-induced abdominal pain. *Nature IF* 42.778. (\*(first authors), #(second authors)- contributed equally)

Eluisa Perna, Javier Aguilera-Lizarraga, Morgane V Florens, Piyush Jain, Stavroula A Theofanous, Nikita Hanning, Joris G De Man, Maya Berg, Benedicte De Winter, Yeranddy A Alpizar, Karel Talavera, Pieter Vanden Berghe, Mira Wouters, Guy Boeckxstaens. Effect of resolvins on sensitisation of TRPV1 and visceral hypersensitivity in IBS. *Gut* Published Online First: 06 October 2020. doi: 10.1136/gutjnl-2020-321530. (IF: 19.189)

Piyush Jain, Serena Materazzi, Francesco De Logu, Duccio Rossi Degl'Innocenti, Camilla Fusi, Simone Li Puma, Ilaria M. Marone, Peter Holzer, Pierangelo Geppetti, and Romina Nassini. Transient receptor potential ankyrin 1 contributes to somatic pain hypersensitivity in experimental colitis. *Sci Rep* 10, 8632 (2020). <https://doi.org/10.1038/s41598-020-65618-5>. (IF: 4.5)

D. Balemans, J. Aguilera-Lizarraga, M. V. Florens, P. Jain, A. Denadai-Souza, M. F. Viola, Y. A. Alpizar, S. Van Der Merwe, P. Vanden Berghe, K. Talavera, S. Vanner, M. M. Wouters, and G. E. Boeckxstaens. Histamine-mediated potentiation of transient receptor potential (TRP) ankyrin 1 and TRP vanilloid 4 signaling in submucosal neurons in patients with irritable bowel syndrome. *American Journal of Physiology-Gastrointestinal and Liver Physiology* 2019 316:3, G338-G349 (IF: 3.29)

Marone IM, De Logu F, Nassini R, De Carvalho Goncalves M, Benemei S, Ferreira J, Jain P, Li Puma S, Bunnett NW, Geppetti P, Materazzi S. TRPA1/NOX in the soma of trigeminal ganglion neurons mediates migraine-related pain of glyceryl trinitrate in mice. *Brain* 141 (8), 2312-2328 (most recent IF: 11.814)

Hassan AM\*, Jain P\*, Mayerhofer R, Frohlich EE, Farzi A, Reichmann F, et al. Visceral hyperalgesia caused by peptide YY deletion and Y2 receptor antagonism. *Sci Rep* 2017 Jan 20;7:40968. \*contributed equally (most recent IF: 4.12).

Reichmann, F, Wegerer, V; Jain P, Mayerhofer R; Hassan, AM; Frohlich, EE; Bock, E; Pritz, E; Herzog, H; Holzer, P; Leitingner, G. Environmental enrichment induces behavioural disturbances in neuropeptide Y knockout mice. *Sci Rep.* 2016; 6(6):28182-28182. (most recent IF: 4.12)

Holzer P, Hassan AM, Jain P, Reichmann F, Farzi A. Neuroimmune pharmacological approaches. *Curr Opin Pharmacol* 2015 Sep 28;25:13-22. (most recent IF: 5.20)

Jain P, Hassan AM, Koyani CN, Mayerhofer R, Reichmann F, Farzi A, et al. Behavioral and molecular processing of visceral pain in the brain of mice: impact of colitis and psychological stress. *Front Behav Neurosci* 2015 Jul 10;9:177. (most recent IF: 3.10)

Reichmann F, Hassan AM, Farzi A, Jain P, Schuligoi R, Holzer P. Dextran sulfate sodium-induced colitis alters stress-associated behaviour and neuropeptide gene expression in the amygdala-hippocampus network of mice. *Sci Rep* 2015 Jun 12;5:9970. (most recent IF: 4.12)

Farzi A, Reichmann F, Meinitzer A, Mayerhofer R, Jain P, Hassan AM, et al. Synergistic effects of NOD1 or NOD2 and TLR4 activation on mouse sickness behavior in relation to immune and brain activity markers. *Brain Behav Immun* 2015 Feb;44:106-120. (most recent IF: 6.30)

Hassan AM, Jain P, Reichmann F, Mayerhofer R, Farzi A, Schuligoi R, et al. Repeated predictable stress causes resilience against colitis-induced behavioral changes in mice. *Front Behav Neurosci* 2014 Nov 6;8:386. (most recent IF: 3.10)

Key meeting abstracts, presented at international scientific conferences and symposia, published or not published in proceedings or journals)

Piyush Jain, Morgane V Florens, Javier Aguilera-Lizarraga, Maria F Viola, Guy Boeckxstaens. Food Antigen-Specific IgE Antibodies In The Development Of Visceral Hypersensitivity. *Neurogastroenterology & Motility*. Lisbon, Portugal. 4 Sep 2019-7 Sep 2019. (poster)

Aguilera-Lizarraga J., Balemans D., Lopez-Lopez C., Jaramillo-Polanco J., Perna E., Theofanous S., Florens M., Decraecker L., Jain P., Denadai-Souza A., Breynaert C., Vanner S., Reed D., Wouters M., Boeckxstaens

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G. (2018). Food antigen-specific sensitization of nociceptive nerves as an underlying mechanism of visceral pain in IBS. To be presented at the Belgian Week of Gastroenterology, Antwerpen, 21 Feb 2018-23 Feb 2018.

Javier Aguilera-Lizarraga, Belgium M. Florens, D. Balemans, R. Bisschops, A. Denadai-Souza, P. Jain, C. Breynaert, M. Wouters, G. Boeckxstaens Food antigen-specific immune response as an underlying pathophysiological mechanism in Irritable Bowel Syndrome (IBS). *Neurogastroenterology & Motility*. 2018;30(Suppl. 1):e13423. FNM 2018. Amsterdam, the Netherlands. DDW 2018. San Diego, California, USA.

Javier Aguilera-Lizarraga, Dafne Balemans, Morgane Florens, Eluisa Perna, Stavroula Theofanous, Lisse Decraecker, Alexandre Denadai-Souza, Piyush Jain, Diether Lambrechts, Mira M. Wouters, Guy E. Boeckxstaens Sa1597 - Upregulation of Mast Cell Related Genes in Irritable Bowel Syndrome. *Gastroenterology*, Volume 154 , Issue 6 , S-325. DDW 2018. San Diego, California, USA.

Javier Aguilera-Lizarraga, Dafne Balemans, Cintya D. Lopez Lopez, Josue O. Jaramillo Polanco, Morgane Florens, Eluisa Perna, Alexandre Denadai-Souza, Stavroula Theofanous, Lisse Decraecker, Piyush Jain, Christine M. Breynaert, Stephen Vanner, David E. Reed, Mira M. Wouters, Guy E. Boeckxstaens 1092 - Food Antigen-Specific Sensitization of Nociceptive Nerves as an Underlying Mechanism of Visceral Pain in Ibs. *Gastroenterology* , Volume 154 , Issue 6 , S-214 - S-215

P. Jain ; R. Nassini ; C. Fusi ; S. Li Puma ; P. Geppetti ; S. Materazzi. Role of oxidative stress and TRPA1 channels in oxaliplatin-induced gastrointestinal disturbances. *Neurogastroenterology & Motility*. 2017;29(Suppl. 2):3-140.

Jain, P; Nassini, R; Materazzi, S; Degl'Innocenti, DR; De Logu, F; Fusi, C; Hassan, AM; Mayerhofer, R; Reichmann, R; Geppetti, P; Holzer, P. Transient receptor potential ankyrin 1 channels participate in somatic pain hypersensitivity in dextran sulfate sodium induced colitis in mice. *Federation of European Neuroscience Societies (FENS)*. July 2-6, 2016; Copenhagen, Denmark.

Ahmed M Hassan\*, Piyush Jain\*, Raphaela Mayerhofer, Esther Frohlich, Aitak Farzia, Florian Reichmann, Herbert Herzog, Peter Holzer. The role of peptide YY in somatic and visceral pain in mice. The potential role of neuropeptide Y for the beneficial effects of environmental enrichment: evidence from knockout mice. *Abstract book of the Reg Pep 2016 meeting*. 2016; -RegPep 2016; JUL 12-14, 2016; Rouen, France. [Poster]

Reichmann, F; Wegerer, V; Jain, P; Mayerhofer, R; Hassan, A; Frohlich, E; Bock, E; Pritz, E; Herzog, H; Holzer, P; Leitinger, GA. Potential role of neuropeptide Y for the beneficial effects of environmental enrichment: evidence from knockout mice *Abstract book of the RegPep 2016 meeting*. 2016; -RegPep 2016; JUL 12-14, 2016; Rouen, France. [Oral Communication]

Jain, P; Hassan, AM; Koyani, CN; Mayerhofer, R; Reichmann, F; Farzi, A; Schuligoi, R; Malle, E; Holzer, P. Behavioral and molecular processing of visceral pain in the brain of mice: Impact of colitis and psychological stress. *NEUROGASTROENT MOTIL*. 2015; 27: 24-24.-*NeuroGastro 2015*; June 6-4, 2015; Istanbul, Turkey. [Oral Communication]

Jain, P; Nassini, R; Materazzi, S; Degl'Innocenti, DR; De Logu, F; Fusi, C; Hassan, AM; Mayerhofer, R; Reichmann, R; Geppetti, P; Holzer, P. Transient receptor potential ankyrin 1 channels participate in somatic pain hypersensitivity in experimental colitis *Intrinsic Activity*, 2015; 3(Suppl. 2). 2015; -21st Scientific Symposium of the Austrian Pharmacological Society. Joint Meeting of the British Pharmacological Society and the Pharmacological Societies of Croatia, Serbia and Slovenia; September 16-18, 2015; Graz, Austria. [Oral Communication]

Hassan, AM; Jain, P; Reichmann, F; Mayerhofer, R; Farzi, A; Schuligoi, R; Holzer, P. Repeated water avoidance stress causes resilience against colitis-induced behavioural changes in mice. *Intrinsic Activity*. 2014; 2 (Suppl. 1): -20th Scientific Symposium of APHAR; SEP 26-27, 2014; Innsbruck, AUSTRIA.[Poster]

Hassan, AM; Jain, P; Reichmann, F; Mayerhofer, R; Farzi, A; Schuligoi, R; Holzer, P. Behavioural and brain neuropeptide changes in an experimental model of colitis. *Book of Abstracts EUCMI2 Gut-Brain Axis 2nd European Conference of Microbiology and Immunology*. 2014; -2nd European Conference of Microbiology and Immunology/EUCMI2; JUN 6-7, 2014; Berlin, GERMANY. [Poster]

Pauer, J; Reichmann, F; Farzi, A; Jain, P; Holzer, P. Stress and colitis alter neuronal c-Fos expression in the limbic system of mice. *Guide and Abstract Book of the International Student Congress 2014*. 2014; -Second International Student Congress of Austria-ISC 2014; JUL 10-12, 2014; Graz, AUSTRIA. [Oral Communication]

Hassan, AM; Jain, P; Holzer, P. Dextran sulfate sodium-induced colitis affects emotional and social behaviour and elevates peptide YY, neuropeptide Y and corticosterone plasma levels in mice. *pA2 online - Proceedings of the British Pharmacological Society*. 2013; -Pharmacology 2013; DEC 17-19, 2013; London, UNITED KINGDOM. [Poster]

Hassan, AM; Jain, P; Reichmann, F; Mayerhofer, R; Schuligoi, R; Holzer, P. Psychosocial stress counteracts behavioural changes but not hormonal changes associated with murine colitis. Abstract book of the Doctoral Day 2013, Medical University of Graz. 2013; 45-45.-Doctoral Day 2013, Medical University of Graz; DEC 9, 2013; Graz, AUSTRIA. [Poster]

Jain, P; Hassan, A; Mayerhofer, R; Reichman, F; Farzi, A; Chintan, K; Malle, E; Holzer, P. Allyl isothiocyanate activates the MAP kinase pathway in the spinal cord and brain along with visceral pain behaviour. Abstract book of the Doctoral Day 2013, Medical University of Graz. 2013; 48-48.-Doctoral Day 2013, Medical University of Graz; DEC 9, 2013; Graz, AUSTRIA. [Poster]

Jain, P; Hassan, AM; Holzer, P. Psychosocial stress counteracts behavioural changes associated with experimental colitis. *European Neuropsychopharmacology*. 2013; 23(S2): S247-S247.-26th ECNP (European College of Neuropsychopharmacology) Congress; OCT 5-9, 2013; Barcelona, SPAIN. [Poster]

Pauer, J; Reichmann, F; Farzi, A; Jain, P; Holzer, P. Impact of stress and colitis on neuronal activation of the limbic system. *Guide & Abstract Book of the International Student Congress 2013*, Medical University of Graz. 2013; 64-64.-International Student Congress 2013, Medical University of Graz; JUL 4-6, 2013; Graz, AUSTRIA. [Poster]

Reichmann, F; Pauer, J; Farzi, A; Jain, P; Holzer, P. Stress and colitis differentially modify corticolimbic c-Fos expression and behaviour in mice. *Abstracts of the 45th European Brain and Behavior Society Meeting*. 2013; -45th European Brain and Behavior Society Meeting; SEP 6-9, 2013; Munich, GERMANY. [Poster]

Hassan, A; Jain, P; Holzer, P. Psychosocial stress counteracts behavioral changes associated with murine colitis, but not colitis itself. *Abstracts of the Doctoral Day of MUG*. 2012; 83-83.-Doctoral Day of MUG; DEC 7, 2012; Graz, AUSTRIA. [Oral Communication]

Jain, P; Hassan, A; Herzog, H; Holzer, P. Hypersensitivity to thermal pain in peptide YY knockout mice. *Abstracts of the Doctoral Day of MUG 2012*. 2012; 84-84.-Doctoral Day of MUG; DEC 7, 2012; Graz, AUSTRIA. [Poster]

Jain, P; Hassan, A; Herzog, H; Holzer, P. Peptide YY and neuropeptide Y in regulation of pain and spatial learning and memory. *BMC Pharmacol Toxicol*. 2012; 13(Suppl 1): A58-A58.-18th Scientific Symposium of APHAR; SEP 20-21, 2012; Graz, AUSTRIA. [Poster]

Jain, P; Elango, K; PR, A; MN, S; B, S. Assessment of probiotics in combination with omeprazole in surgically induced gastroesophagitis. *Journal of Gastroenterology and Hepatology* 2011; 26 (Suppl. 5): 16-288.

Jain, P; Elango, K; PR, A; Jones, R; MN, S; B, S. Safe and Effective Use of Probiotics in Combination with Gastric Acid Inhibitors (Omeprazole) for the Treatment of Gastro-Esophageal Reflux Disease (GRED). 2010; 171- Proceedings of the national medicine symposium, May 26-28, 2010, Melbourne, AUSTRALIA. [Poster]

Jain, P; Elango, K; PR, A; MN, S; B, S. Gene and environmental interaction: impact on human health. 2nd International Conference on Environmental Management 2010 (ICEM 2010), to be held at Centre for Environment, Institute of Science and Technology Jawaharlal Nehru Technological University Hyderabad Kukatpally, Hyderabad, (A.P.) India, Oct 25th to 28th 2010.

Jain, P; Elango, K; PR, A; MN, S; B, S. Evaluation of the anticonvulsant potential of a methenolic extract of *Benincasa hispida*. *International seminar on herbal drug research: Present and future prospects held at JSS College of Pharmacy, Ooty, Tamilnadu, India, 4th to 5th December 2009*. [Poster]

Jain, P; Elango, K; PR, A; MN, S; B, S. Antitumor activity and (increase in life span) of pomegranate fruit in Swiss albino mice" in national seminar on the role of siddha and Ayurveda medicines in geriatric care (sponsored by the department of AYUSH, Ministry of health and welfare, govt. of India) held at School of Bioscience, Dr. G.R. Damodaran College of science, Coimbatore. 19th to 20th October 2009. [Poster]

Jain, P; Vadivelan R, Elango, K; PR, A; MN, S; B, S "Impact of patient counseling on knowledge of diabetes mellitus and its management in SRN Hospital in Allahabad" in Indian Pharmaceutical Association 2nd IPA-Students' Congress 2009 held at Acharya & B.M Reddy College of Pharmacy, Bangalore. 9th to 11th July 2009. [Poster]

Dey S, Jain P, Satishkumar MN, Suresh B "Antagonistic role of quercetin against cardiotoxicity and impaired anti -oxidation induced by doxorubicin in swiss albino mice" (Abstract) *Indian Journal of Pharmacology*. 2008; 40: S91. [Poster]

Koneru A, Jain P, Gunjan, Koganti SK, Elango K, Suresh B. Attenuation of toxic effects induced by

antineoplastic agents by PunicaGranatum (Pomegranate) juice and whole fruit extract. (Abstract) Indian Journal of Pharmacology. 2009; 41: supplement 1. S95-96. [Poster]

Mandal D, Koganti SK, Nithya P, Jain P, Elango K, Suresh B. Effect of SesamumIndicum Linn. on the post-menopausal conditions in ovariectomized Wistar rats. (Abstract) Indian Journal of Pharmacology. 2009: 41: Supplement 1. S95-96.S11. [Poster]

#### Projects

#### Memberships

#### Other Relevant Information

##### Grants and awards

Keynote speaker, International conference (online) 'Innovation in Pharmaceutical, Medical and Biomedical Sciences' Oriental University, Indore, India. (06.2020)

Guest speaker, International conference "advances in drugs discovery against resistant diseases" RIPER, Anantpur, India, Sponsor: AICTE. (10.2019)

Postdoctoral fellowship, Research foundation Flanders, Belgium (09.2018)

Young Investigator Participation Award, European Society of Neurogastroenterology and Motility, Neuro gastro TANDEM, Cork, Ireland (10.2017)

Trainee grant, NeuroGut, COST Action BM 1106 GENIEUR Training School, Heidelberg, Germany (03.2016)

INGE St, Forderstipendium, Initiative Brain Research Styria for participation and delivering an oral presentation in European Society of Neurogastroenterology and Motility, Istanbul, Turkey (06.2015)

Grant, for delivering an oral presentation in Austrian Pharmacological Society Graz, Austria (08.2015)

Marietta Blau grant, Austrian Ministry of Science for one-year Ph.D. extension at University of Florence, Florence, Italy (03.2015- 02.2016)

Best poster presentation, second prize. National seminar, Department of AYUSH, Ministry of Health and Welfare, Govt. of India, Coimbatore, India (10.2009)