PINKY JUNEJA

Contact Info:

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Education:

Ph.D. in Molecular Medicine (2020-Ongoing): Institute of Liver and Biliary Sciences, Department of Molecular and Cellular Medicine, Vasant Kunj, New Delhi, 110070.

Research Work (Ongoing): Mesenteric lymphatic endothelial cells as potential therapeutic target to combat systemic inflammation and progression in liver cirrhosis.

Research Work (Completed): Development and Evaluation of Nanoengineered Gut Targeted Immuno Delivery System in Liver Cirrhosis: A Preclinical Study

South Asian University, Faculty of Life Sciences and Biotechnology, New Delhi M.Sc. Biotechnology, (August 2017- June 2019) FGPA- 8.6 (on a scale of9.0) (Third Position)

Dissertation topic- "Characterization of novel acetylcholinesterase inhibitors 3- nitro-6-amino-substituted imidazo[1,2-b] pyridazine derivative compounds in neurodegeneration"

University of Delhi, Maitreyi College, New Delhi B.Sc. (H) zoology (August2014 – June 2017), Percentage- 84.4 %

Qualified, National Eligibility Test-Lectureship, 2019,

Qualified, Graduate Aptitude Test Engineering- Biotechnology (**GATE-BT**),2019

Awarded, Merit Scholarship from South Asian University (2018-2019)

Publications:

1. **Juneja, P**., Tripathi, D. M., & Kaur, S. (2022). Revisiting the gut-liver axis: Gut lymphatic system in liver cirrhosis and portal hypertension. *American Journal of Physiology-Gastrointestinal and Liver Physiology*, *322*(5), G473-G479.
2. **Juneja, P**., Rahman, S. N. R., Jakhar, D., Mourya, A. K., Tripathi, D. M., Kaur, I., ... & Kaur, S. (2023). Recombinant VEGF-C (Cys156Ser) improves mesenteric lymphatic drainage and gut immune surveillance in experimental cirrhosis. *JHEP Reports*, 100816.
3. **Juneja, P**., Sharma, A., Shasthry, S. M., Kumar, G., Tripathi, D. M., Rajan, V., ... & Kaur, S. (2023). Podoplanin-positive dilated lymphatic vessels in duodenum associates with three-month mortality in patients with cirrhosis. *Frontiers in Physiology*, *14*, 1045983.
4. Biswas, S., Yadav, N., **Juneja, P.,** Mourya, A. K., Kaur, S., Tripathi, D. M., & Chauhan, V. S. (2022). Conformationally Restricted Dipeptide-Based Nanoparticles for Delivery of siRNA in Experimental Liver Cirrhosis. *ACS omega*, *7*(41), 36811-36824.
5. Tripathi, D. M., Rohilla, S., Kaur, I., Siddiqui, H., Rawal, P., **Juneja, P**., ... & Kaur, S. (2021). Immunonano-lipocarrier-mediated liver sinusoidal endothelial cell-specific RUNX1 inhibition impedes immune cell infiltration and hepatic inflammation in murine model of NASH. *International Journal of Molecular Sciences*, *22*(16), 8489.
6. Sharma, R. K., Singh, M., Ghimeray, K., **Juneja, P**., Dev, G., Pulavarthi, S., ... & Akundi, R. S. (2021). Imidazopyridazine acetylcholinesterase inhibitors display potent anti-proliferative effects in the human neuroblastoma cell-line, IMR-32. *Molecules*, *26*(17), 5319.

Conference proceeding and Awards:

1. **Awarded 2nd prize** in Young Investigator Award Session in 62nd Annual Conference of the Indian Society of Gastroenterology (ISGCON) held from 12th-13th February, 2022 for presenting scientific paper "*Gut lymphangiogenesis modulates gut immunity and attenuates systemic inflammation in decompensated cirrhosis".* **Pinky Juneja,** Dinesh Tripathi, Impreet Kaur, Sumati Rohilla, Subham Banerjee, Shiv K Sarin, Savneet Kaur

2. **Awarded with full bursary** to present in the European Association for the Study of the Liver (EASL) organised the International Liver Congress held in London from 22nd to 26th June 2022. Oral Presentations:

Sunday 26 June: Cirrhosis and its complications: Experimental and pathophysiology. *"Vascular endothelial growth factor C mediated restoration of mesenteric lymphatic vessels permeability and drainage improves gut immunity surveillance in experimental cirrhosis"*. **Pinky Juneja**, Dinesh Mani Tripathi, Impreet Kaur, Sumati rohilla, Sukriti Sukriti, Subham Banerjee, Shiv Kumar Sarin, Savneet Kaur. DOI: https://doi.org/10.1016/S0168-8278(22)00599-2

3. **Awarded 2nd prize** in Young Investigator Award Session in 30th Annual Scientific Meeting of Indian National Association for Study of the Liver (INASL) held from 4th -7th August, 2022 for scientific paper presentation "*Podoplanin-positive dilated lymphatic vessels in duodenum predict three-month mortality in patients with cirrhosis"* **Pinky Juneja**, S.M. Shasthry, Guresh Kumar, Archana Rastogi, Shiv K. Sarin, Savneet Kaur. DOI: https://doi.org/10.1016/j.jceh.2022.07.019

4. **Presented Innovation project-** "Respiratory health scanning: a step for earlydetection" (Innovation Project) in ANDC (October 2016) and DDU (March- 2016), **Delhi University**

5. **Presented poster- "**Characterization of Novel Acetylcholinesterase Inhibitors 3-nitro-6-aminosubstituted Imidazo [1,2-b] Pyridazine Derivative Compounds InNeurodegeneration." **in 5th south Asian biotechnology conference.**

Research Experience and skill gained:

- **Research Experience:**
  - Experimental Animal Models of Liver Disease (Rats and Mice)
    - Established and maintained experimental animal models of liver disease in rats and mice.
    - Performed a variety of experiments to study the progression of liver disease, including liver function tests, histology, and molecular biology techniques.
  - In vitro Cell Culture
    - Performed primary and secondary cell culture of liver cells.
    - Optimized culture conditions for different cell types.
    - Conducted a variety of assays to study cell function.
- **Skills:**
  - Confocal Imaging (2D and 3D)
    - Proficient in whole-mount tissue preparation, tissue clearing, and confocal imaging.
    - Able to visualize subcellular structures and protein expression patterns.
  - Molecular Biology Techniques
    - Well-versed in western blotting and qRT-PCR.
    - Able to perform a variety of molecular biology techniques to study gene expression and protein function.

Skills:

Well versed with **Animal cell line culture, Western Blotting** and Molecularbiology techniques

Handled **FACS** and Gas chromatography.

Activities :

Member of organizing committee for BIOZEST (2018) organized by Faculty of Life Sciences and Biotechnology, South Asian University. Organized neuroscience corner.

Volunteer in the National symposium on "Man-made Disease: An Urban Menace", held at maitreyi college, university of Delhi, February 2016

Participated in workshop conducted by "**Pediatric Biology Centre**" organized under the "**Science Setu**" programme held at Maitreyi College.