



**Dr. Jyoti**  
**Scientist-I**  
**Department of Pharmacology**  
**A.I.I.M.S, New Delhi-110029**  
**डॉ. ज्योति**  
**वैज्ञानिक-I**  
**भेषजगुण विज्ञान विभाग,**  
**अ. भ. आ. सं., नई दिल्ली-110029**

**Contact Details:** 4th Floor, Department of Pharmacology, Teaching Block, All India Institute of Medical Sciences (AIIMS), New Delhi 110029

**Telephone:** 011-26593677

**Email ID:** [jyotiswarup11@gmail.com](mailto:jyotiswarup11@gmail.com)

**Education:**

- B.Sc. from Lucknow University, Lucknow
- M.Sc (Biotechnology) from Babasaheb Bhimrao Ambedkar University, Lucknow
- Ph.D in Life Sciences from Central Drug Research Institute, Lucknow

**Research Interest/ area:**

Endocrinology, Neurosciences

**Past Position:**

- Research associate (THSTI), Haryana, India (June 2021 – Oct 2023)
- Research associate (CDFD), Hyderabad, India (November 2019 – June 2020)
- Postdoctoral research associate (University of Georgia), Georgia, USA (May 2017 – July 2019)
- Postdoctoral research associate (University of Minnesota), Minnesota, USA (December 2015-April 2017)

**Selected Publications:**

1. **Gautam J**, Kumari D, Aggarwal H, Gupta SK, Kasarla SS, Sarkar S, Priya MRK, Kamboj P, Kumar Y, Dikshit M. Characterization of lipid signatures in the plasma and insulin-sensitive tissues of the C57BL/6J mice fed on obesogenic diets. **Biochim Biophys Acta Mol Cell Biol Lipids**. 2023 Jun 5;1868(9):159348.
2. **Gautam J**, Xu L, Nirwane A, Nguyen B, Yao Y. Loss of mural cell-derived laminin aggravates hemorrhagic brain injury. **J Neuroinflammation**. 2020 Apr 6;17(1)

3. **Gautam J.**, Cao Y. & Yao Y. Pericytic Laminin Maintains Blood-Brain Barrier Integrity in an Age-Dependent Manner. **Transl. Stroke Res.** (2019), Jun 18.
4. **Gautam J**, Miner JH, Yao Y. Loss of Endothelial Laminin  $\alpha$ 5 Exacerbates Hemorrhagic Brain Injury. **Transl Stroke Res.** 2019 Jan 29.
5. **Gautam J**, Nirwane A, Yao Y. Roles of Pericytes in Stroke Pathogenesis. **Cell Transplant.** 2018 Dec;27(12):1798-1808.
6. **Gautam J**, Khedgikar V, Kushwaha P, Choudhary D, Nagar GK, Dev K, Dixit P, Singh D, Maurya R, Trivedi R. Formononetin, an isoflavone, activates AMP-activated protein kinase/ $\beta$ -catenin signalling to inhibit adipogenesis and rescues C57BL/6 mice from high-fat diet-induced obesity and bone loss. **Br J Nutr.** 2017 Mar;117(5):645-661.
7. **Gautam J**, Nirwane A, Yao Y. Laminin differentially regulates the stemness of type I and type II pericytes. **Stem Cell Res Ther.** 2017 Feb 7;8(1):28
8. **Gautam J**, Zhang X, Yao Y. The role of pericytic laminin in blood brain barrier integrity maintenance. **Sci Rep.** 2016 Nov 3;6:36450.
9. **Gautam J**, Kumar P, Kushwaha P, Khedgikar V, Choudhary D, Singh D, Maurya R, Trivedi R. (2015) Neoflavonoid dalbergiphenol from heartwood of *Dalbergia sissoo* acts as bone savior in an estrogen withdrawal model for osteoporosis. **Menopause.**;22(11):1246-55.
10. **Gautam J**, Choudhary D, Khedgikar V, Kushwaha P, Singh RS, Singh D, Tiwari S, Trivedi R. (2014) Micro-architectural changes in cancellous bone differ in female and male C57BL/6 mice with high-fat diet-induced low bone mineral density. **Br J Nutr.** 111(10):1811-21