HARMIT SINGH RANHOTRA, *Ph.D.*

***Associate Professor*, Department of Biochemistry**

Academic Qualifications

- Ph.D. (Biochemistry) in 2002 from North Eastern Hill University (NEHU), Shillong, India.
- M.Sc. (Biochemistry) in 1994 from NEHU, Shillong, India.
- B.Sc. (Chemistry) in 1992 from NEHU, Shillong, India.

Professional Experience

- Associate Professor of Biochemistry (1998-present) in the Department of Biochemistry, St. Edmund's College, Shillong 793 003, India. http: www.sec.edu.in
- DBT-Overseas Visiting fellow for research on molecular endocrinology at the Albert Einstein College of Medicine, Bronx, New York, USA. March-July, 2016.
- Postdoctoral Research Fellow in molecular toxicology from North Carolina State University, Raleigh, NC, USA (Nov 2003- August 2004).
- NIH Postdoctoral Research Fellow in Gene Regulation from the NIEHS, NIH, Research Triangle Park, NC, USA (May 2002-Nov 2003).

Publications in the last 5 years (Peer-reviewed)

- **Ranhotra HS**. Discrete interplay of gut microbiota L-tryptophan metabolites in host biology and disease. **Mol Cell Biochem**. 2023. Published online 20 Oct, 2023 (Publisher: Springer Nature)
- **Ranhotra H S**. Estrogen-related receptor alpha in select host functions and cancer: new frontiers. **Mol Cell Biochem**. 2022, May; 477(5):1349-1359. (Publisher: Springer Nature)
- Hao Li , **Harmit S Ranhotra** , Sridhar Mani , Zdeněk Dvořák , Harry Sokol , Rolf Müller. Human microbial metabolite mimicry as a strategy to expand the chemical space of potential drugs. ***Drug Discov Today***, 2020, Sep; 25(9):1575-1579.
- Dvořák Z, Kopp F, Costello CM, Kemp JS, Li H, Vrzalová A, Štěpánková M, Bartoňková I, Jiskrová E, Poulíková K, Vyhlídalová B, Nordstroem LU, Karunaratne CV, **Ranhotra HS**, *et al*. Targeting the Pregnane X Receptor using microbial metabolite mimicry. ***EMBO* Molecular Medicine.** 2020; Apr 7;12(4): e11621.
- **Ranhotra H S**. The estrogen-related receptors in metabolism and cancer: newer insights. ***J Recept Signal Transduct Res***. 2018; 38(2):95-100.

Research grants awarded:

- Expressional studies on the orphan nuclear estrogen-related receptor alpha during type 1 diabetes in mice. Funding agency: UGC, India. 2012-13.
- Studies on the orphan estrogen-related receptor alpha expression during calorie restriction in mice. Time: 2 years (2007-09). Funding agency: DST, GoI, New Delhi, India. (Amount: Rs 811,000.00).
- Project title: Evaluation of clinically significant blood constituents amongst the aged Khasi population of Meghalaya. Time: 1year (2007). Funding agency: UGC, India. (Amount: Rs 50,000.00).