



Postdoctoral positions in Nutrient Signaling & Metabolism – Hoxhaj Lab

Postdoctoral positions for highly motivated research fellows are available in the laboratory of [Dr. Gerta Hoxhaj](#) to study molecular links between nutrient signaling and cancer metabolism. Dr. Hoxhaj is an Assistant Professor at the Children's Medical Center Research Institute, UT Southwestern, Dallas, USA. Further information about the research in Hoxhaj Lab can be found at: <https://cri.utsw.edu/scientists/gerta-hoxhaj-laboratory/>.

Dr. Hoxhaj's and her laboratory's studies have uncovered key intersections between cellular signaling and metabolism:

- Discovery of de novo purine synthesis as a novel metabolic program downstream of mTORC1 signaling (**Ben-Sahra I*, Hoxhaj G*, et al., 2016, Science**).
- mTORC1 senses purine nucleotide levels (**Hoxhaj et al., 2017, Cell Reports**).
- Controls of the cellular reducing power NADP(H) through Akt-mediated phosphorylation of NAD Kinase (**Hoxhaj*, et al., 2019, Science**).
- Uncovering an essential role of mitochondrial NADP(H) to enable proline synthesis (**Tran*, Kesavan*, .. Hoxhaj G. 2021, Nature Metab**)

Research in Hoxhaj Lab focuses on understanding the molecular mechanisms that control cellular metabolism in the context of cancer, metabolic disorders, and aging. We're seeking bright and enthusiastic scientists that are interested in understanding the mechanisms of how nutrient, growth factor, and stress signals, regulate cellular metabolism to sustain cellular homeostasis and investigate the consequences when this coordination is dysregulated in disease.

Candidates must hold a Ph.D. or M.D/Ph.D. degree. Research backgrounds in biochemistry, molecular biology, or cell biology are preferred. Successful candidates will have access to state-of-the-art technologies in metabolomics, biochemistry, proteomics, cell biology and *in vivo* models in a dynamic academic environment. Interested applicants should submit a CV and a brief description of their past research (limit to one page) to gerta.hoxhaj@utsouthwestern.edu.

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