

Bryan Roth, Ph.D., M.D.

Michael Hooker Distinguished Professor, Department of Pharmacology at UNC-Chapel Hill
Raleigh-Durham, NC, US

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Dr. Roth and his colleagues are engaged in drug discovery and synthetic biology research. He directs the NIMH Psychoactive Drug Screening Program and the NIMH funded National Cooperative Drug Discovery Group (UNC-Duke-Pfizer). Dr. Roth studies particularly the structure and function of G-protein coupled receptors (GPCRs), a large and diverse family of proteins encompassing more than 1 percent of the genome. GPCRs couple to multiple intracellular signaling pathways, and currently more than 50 percent of approved medications target GPCRs. The ultimate goal of his research is to find ways to treat psychiatric disease using GPCR-based therapeutics. Before joining UNC, Dr. Roth was with Case Western Reserve University School of Medicine.

Pharmaceuticals, Research, Education/Learning

Immunohistochemistry, In Vitro, Pharmacology, Molecular Biology, Cell Culture, Biochemistry, Signal Transduction, Science Writing, Cells

NIMH Psychoactive Drug Screening Program : Director, NIMH funded National Cooperative Drug Discovery Group : Director, Journal of Clinical Investigation : Deputy Editor

Illuminating a subterranean pharmacology
2015 Goodman Lecture Speaker

How synthetic and chemical biology will transform neuroscience
Special Lecture at the Society for Neuroscience Meeting

St. Louis School of Medicine
Ph.D. Biochemistry

St. Louis University School of Medicine
M.D. Medicine

Elected to the Institute of Medicine (2014)

The Institute of Medicine is a prestigious national organization of the top professionals in various fields inside and outside of medicine dedicated to independent analysis and science-based recommendations on important health issues.

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