

USF NEXUS INITIATIVE 2019 AWARD RECIPIENT

David Merkler

Production of Recombinant and Semi-Synthetic Forms of Human Glycine N-Acyltransferase Like-2

Our interest in producing human glycine N-acyltransferase like-2 (GLYATL2) is to address questions about (i) the role served by the enzyme in vivo, (ii) the regulation of enzymatic activity by acetylation at Lys-19, and (iii) the structure/function relationships in the glycine N-acyltransferase family. To address these questions about hGLYATL2, we have initiated a collaboration with Dr. Philip A. Cole, Professor of Medicine and Biological Chemistry and Molecular Pharmacology, at Harvard Medical School. Dr. Cole has considerable experience with insect cell expression of mammalian enzymes, protein semi-synthesis, and has extensively published on a related family of enzymes, the arylalkylamine N-acyltransferases (AANATs).

Partnership:

Philip Cole, M.D., Ph.D.

Harvard University (Cambridge, Massachusetts)



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