

Table 2. Participating Faculty Members

Name	Degree(s)	Rank	Primary Department or Program	Research Interest	Training Role	Undergraduates In Training	Undergraduates Graduated	Undergraduates Continued in Research or Related Careers
Abel, Dale	MD, PhD	Professor and Chair	Internal Medicine – Endocrinology & Metabolism	Elucidating the molecular mechanisms that are responsible for cardiac failure in diabetes	Preceptor	27	67	14
Abel, Ted	PhD	Professor and Chair	Neuroscience and Pharmacology	Molecular mechanisms of memory storage and the molecular basis of neurodevelopmental and psychiatric disorders	Preceptor	2	48	40
Bassuk, Alex	MD, PhD	Professor	Pediatrics	Neuroanatomy, molecular biology, protein biochemistry, and genetic mechanisms in human diseases and animal models	Preceptor	3	8	8
Blumberg, Mark	PhD	Professor and Chair	Psychological & Brain Sciences	Neural bases and functions of sleep; developmental contributions of sleep-related spontaneous motor activity to sensorimotor integration; development and evolution of behavior	Preceptor	2	20	6
Butali, Azeez	D.D.S., Ph.D.	Associate Prof.	Oral Pathology, Radiology, and Medicine	Initiating projects, study design, and the direction of genome-wide studies for craniofacial anomalies and subclinical cleft phenotypes in the African population; design and coordination of research into the genetic causes of aggressive periodontitis and preterm births in Africa	Preceptor	9	3	3
Cwiertyny, David	PhD	Professor	Civil and Environmental Engineering	Materials-based treatment strategies for water and wastewater, chemical transformation pathways for	Preceptor	1	40	6

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				emerging contaminant classes in a natural aquatic system				
Daack-Hirsch, Sandra	PhD, RN, FAAN	Professor	Nursing	Comprehension and communication of genomic risk and Genetic disorders and families	Preceptor	0	7	7
Engelhardt, John	PhD	Professor and Chair	Anatomy & Cell Biology	Molecular basis of inherited and environmentally induced diseases, and using gene therapy to treat	Preceptor	3	42	11
Fiegel, Jennifer	PhD	Assoc. Professor	Chemical and Biochemical Engineering	Novel pulmonary drug delivery systems; Targeted therapies to treat infectious diseases; Aerosol biointeractions in environmental exposures and drug delivery	Preceptor	6	30	5
Forbes, Tori	PhD	Assoc. Professor	Chemistry	Synthesis and characterization of novel actinide-based (²³² Th, ²³⁸ U, ²³⁷ Np) nanotubes and molecular clusters; X-ray diffraction and scattering techniques; transport and mobility of nuclear materials in aqueous environmental systems; radiochemistry	Preceptor /Co-PI	8	40	13
Geyer, Pam	PhD	Professor	Biochemistry	Mechanisms involved in genome organization and gene regulation; investigating the role of LEM domain proteins in lamina function, using Drosophila as a model organism	Preceptor	5	20	11
LaLumiere, Ryan	PhD	Assoc. Professor	Psychological & Brain Sciences	Neurobiology of learning and memory in rodents; Neurobiology of addiction in rodents	Preceptor	9	30	3

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Lehmler, Hans-Joachim	PhD	Professor	Public Health - Occupational and Environmental Health	Disposition and metabolism of chiral environmental contaminants, toxicity of perfluorinated surfactants, interaction of fluorinated materials with biological lipid assemblies	Preceptor	4	16	6
Lutgendorf, Susan	PhD	Professor	Psychological & Brain Sciences	Psychoneuroimmunology, Biobehavioral mechanisms in Cancer, Aging, and Inflammatory Diseases, Behavioral Medicine Interventions and Immune Function	Preceptor	6	52	21
Murray, Jeff	MD	Professor	Pediatrics	Genetic and environmental causes of complex diseases specifically premature birth and birth defects such as cleft lip and palate	Preceptor /Co-I	1	13	11
Nopoulos, Peggy	MD	Professor and Chair	Psychiatry	The structure and function of the brain using imaging tools such as MRI and cognitive / behavioral assessment	Preceptor	2	15	4
Rodgers, Vincent	PhD	Professor	Physics and Astronomy	Theoretical particle physics; string theory with applications in gravitation, cosmology, superstring theories as unified theory, gauge/gravity correspondence. Numerical techniques developed for solutions in quantum chromodynamics (QCD)	Preceptor	5	6	5
Shaw, Scott	PhD	Assoc. Professor	Chemistry	Combining modern analytical techniques with materials and physical chemistry to create new understanding of the molecular-level behavior at interfaces	Preceptor	5	11	5

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Smolikove, Sarit	PhD	Assoc. Professor	Biology	DNA damage repair and chromosome synapsis in <i>C. elegans</i> meiosis	Preceptor	6	38	15
Strack, Stefan	PhD	Professor	Neuroscience and Pharmacology	Identifying the roles of one of the major serine/threonine phosphatases, protein phosphatase 2A (PP2A) in normal and pathological brain function.	Preceptor	4	40	15
Tranel, Daniel	PhD	Professor	Neurology	Clinical and experimental neuropsychology; Cognitive neuroscience; Lesion method and functional neuroimaging (MRI); Neural basis of higher cognitive functions and personality	Preceptor	5	32	28
Weiner, Josh	PhD	Professor	Biology	Molecular Mechanisms of Neuronal Differentiation and Neural Circuit Formation	Preceptor	3	14	11
Williams, Florence	PhD	Assistant Prof.	Chemistry	Boron chemistry, Nitrene Chemistry, Organic Methodology, Activation of Strong Bonds, Bioorthogonal Cross-Coupling, Chemical Biology, Medicinal Chemistry, Small Molecule Synthesis, Neurodegenerative Diseases	Preceptor	1	6	7