

**Table 2. Participating Faculty Members**

<b>Name/Degree(s)</b>	<b>Rank</b>	<b>Primary (&amp; Secondary) Appointment(s)</b>	<b>Role in Program</b>	<b>Research Interest</b>
Benson, Christopher MD	Professor	Internal Medicine (Molecular Physiology/Biophysics)	Trainer	Characterization of ASICs and their role in nociceptive, taste, and mechanical stimuli
Brennan, Timothy MD PhD	Professor	Anesthesia (Pharmacology)	Co-PD	Mechanisms for peripheral sensitization in pathologic pain state
Chen, Songhai MD PhD	Assistant Professor	Pharmacology (Internal Medicine)	Trainer	How heterotrimeric G protein signaling regulates leukocyte migration and how aberrant G protein signaling contributes to tumor growth, metastasis and pain
Davidson, Beverly PhD	Professor	Internal Medicine (Molecular Physiology/Biophysics)	Resource Faculty	Development of novel molecular medicines for the treatment of genetic diseases
Frey Law, Laura MPT PhD	Associate Professor	Physical Therapy and Rehabilitation Science	Trainer	Effects of pain and fatigue on motor function; mathematical muscle modeling
Hammond, Donna PhD	Professor	Anesthesia (Pharmacology)	PD	Central and peripheral mechanisms of persistent pain
Herr, Keela BSN PhD	Professor	Nursing	Adjunct Trainer	Pain assessment and management in the older adult
Howard, Matthew MD	Professor	Neurosurgery	Trainer	Neural basis of audition; Interventional approaches to pain management
Kitamoto, Toshi PhD	Associate Professor	Anesthesia (Pharmacology)	Trainer	How diets affect the nervous system and modulate genetically inherited neurological defects
Mohapatra, Durga PhD	Assistant Professor	Pharmacology (Anesthesia)	Trainer	Mechanisms of ion channel modulation that alter neuronal excitability in pain sensitization in cancers and inflammatory pathologies

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Rakel, Barbara BSN PhD	Professor	Nursing	Adjunct Trainer	Non-pharmacologic interventions to reduce acute and persistent movement pain
Recober, Ana MD	Assistant Professor	Neurology	Junior Trainer	Mechanisms that underlie the progression from episodic to chronic migraine
Rosenthal, Gary MD	Professor	Internal Medicine	Resource Faculty	Comparative effectiveness research, patient centered outcomes research
Russo, Andy PhD	Professor	Molecular Physiology/Biophysics (Neurology)	Trainer	Molecular basis of migraine
Sluka, Kathleen PhD	Professor	Physical Therapy and Rehabilitation Science	Trainer	Neurobiology of musculoskeletal pain and analgesia
Spofford, Christina MD PhD	Assistant Professor	Anesthesia	Junior Trainer	Regional anesthesia; Mechanisms of acute pain
Strack, Stefan PhD	Professor	Pharmacology (Pathology)	Trainer	Structure/function of protein phosphatase 2A (PP2A) and the role of PP2A in neuronal signal transduction and catecholamine synthesis,
Usachev, Yuriy PhD	Associate Professor	Pharmacology (Anesthesia)	Trainer	Molecular and cellular mechanisms that underlie pain sensitization induced by tissue or nerve injury and inflammation
Welsh, Michael MD	Professor	Internal Medicine (Molecular Physiology/Biophysics)	Trainer	Diagnosis and therapy of lung disease; Biology of ASICs and their role in fear and neurological diseases.
Wemmie MD/PhD	Associate Professor	Psychiatry (Molecular Physiology/Biophysics)	Trainer	Mechanism for ASIC activation in vivo and its role in synaptic plasticity,
Wu, Meng PhD	Adjunct Professor	Natural Products and Medicine Chemistry (Biochemistry)	Resource Faculty	Molecular probe/drug lead discovery via high-throughput screening and assay development

TABLE 2

**Table 3. Institutional Training Grant Support Available to Participating Faculty Members, Department(s), or Program(s)**

Title of Training Grant	Funding Source Including Identifying Number	Active or Pending Project Period	Program Director (Department)	Predocctoral Trainees Supported This Year	Postdoctoral Trainees Supported This Year	Short-Term Trainees Supported This Year	Total No. of Participating Faculty (Number Overlapping)	Names of Overlapping Faculty
Neuroscience Training Program	5 T32 GMS007421	7/1999-6/2014	Tranel, Daniel (Neurology)	6	0	0	43 (13)	Hammond Brennan Benson Davidson Howard Kitamoto Mohapatra Russo Sluka Strack Usachev Welsh Wemmie
Medical Scientist Training Program	5 T32 GM007337	7/1977-6/2016	Lentz, Steve (Internal Medicine)	17	0	0	163 (13)	Hammond Brennan Benson Chen Davidson Kitamoto Mohapatra Russo Sluka Strack Usachev Welsh Wemmie
Predocctoral Training in the Pharmacological Sciences	2 T32 GM067795	7/2003-6/2017	Strack, Stefan (Pharmacology)	6	0	0	46 (7)	Hammond Brennan Chen Kitamoto Mohapatra Strack Usachev

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Predoctoral Training Program in Genetics	5 T32 GM008629	7/1997-6/2017	Eberl, Daniel (Biology)	6	0	0	56 (4)	Davidson Kitamoto Russo Welsh
Cardiovascular Interdisciplinary Research Fellowship	5 T32 HL007121	7/1975-6/2016	Abboud, Francois (Internal Medicine)	0	15	0	54 (6)	Benson Davidson Howard Russo Strack Welsh
Training Program in Hypertension; Kidney Disease & Cell Biology	5 T32 DK007690	7/1992-6/2018	Thomas, Christie (Internal Medicine)	0	0	0	36 (3)	Davidson Russo Welsh
Research Training Program in Pediatric Cardiology	5 T32 HL007413	7/1978-6/2014	Scholz, Thomas (Pediatrics)	0	3	0	29 (2)	Benson Welsh
Research Training in the Major Psychoses and Clinical Neurobiology	5 T32 MH019113	9/1991-5/2016	Andreasen, Nancy (Psychiatry)	0	4	0	32 (2)	Wemmie Welsh
Bioinformatics Training in the Life Sciences and Biomedicine	5 T32 GM082729	7/2009-6/2014	Casavant, Thomas (Electrical and Computer Engineering)	8	0	0	45 (2)	Davidson Welsh
Research Training in Infectious Diseases	5 T32 AI007343	7/1988-8/2015	Stapleton, Jack (Internal Medicine)	0	0	0	28 (2)	Davidson Welsh
Program in Hematology: Molecular & Cell Biology Blood Cells	5 T32 HL007344	7/1988-7/2014	Lentz, Steve (Internal Medicine)	0	0	0	29 (2)	Davidson Welsh

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Institutional Training Program in Oral Health Research	5 T32 DE014678	Pending	Squier, Christopher (Dentistry)	1	8	0	9 (3)	Brennan Strack Welsh

**Totals****45****36**

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