

Table 2. Participating Faculty Members

Name	Degree(s)	Rank	Primary Department or Program	Research Interest	Training Role	Pre-doctorates in Training	Pre-doctorates Graduated	Predocotorates Continued in Research or Related Careers	Post-doctorates in Training	Post-doctorates Completed Training	Post-doctorates Continued in Research or Related Careers
Abou Alaiwa, Mahmoud	MD	Assistant Professor	Internal Medicine - Pulmonary, Critical Care, Occupational Medicine	Bronchoscopy, human Cystic Fibrosis, mucociliary transport, and quantitative lung imaging	Junior Mentor	0	0	N/A	1	0	N/A
Ankrum, James	PhD	Assistant Professor	Biomedical Engineering	Cell based therapies, microenvironmental control of cell phenotype, pancreatic beta cell therapy	Junior Mentor	3	0	N/A	0	0	N/A
Anthony, RT	PhD	Associate Professor	Occupational & Environmental Health	Occupational hygiene, exposure assessment and computational fluid dynamics modeling	Mentor	5	10	4	0	0	N/A
Baek, Stephen	PhD	Assistant Professor	Industrial Engineering	Medical image processing, computer-aided design, human body modeling and tracking,	Junior Mentor	2	0	N/A	0	0	N/A

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Beichel, Reinhard	PhD	Assoc. Professor	Electrical & Computer Engineering	Medical computer vision and graphics, lung image analysis, PET image analysis	Mentor	1	1	1	0	1	1
Buatti, John	MD	Professor	Radiation Oncology	Applying advanced imaging modalities into radiation treatment techniques	Mentor	2	9	3	3	9	6
Christensen, Gary	DSc	Professor	Electrical & Computer Engineering	Medical imaging, image & signal processing	Mentor	2	11	10	0	0	N/A
Comellas, Alejandro	MD	Assoc. Professor	Internal Medicine - Pulmonary, Critical Care, Occupational Medicine	Lung injury and ambient air pollution resulting in COPD, asthma	Mentor	0	0	N/A	1	4	4
Engelhardt, John	PhD	Professor	Anatomy & Cell Biology	Molecular basis of cystic fibrosis disease pathologies	Mentor	4	12	10	5	16	15
Fiegel, Jennifer	PhD	Assoc. Professor	Chemical & Biochemical Engineering	Drug delivery, polymeric biomaterials, nano and microtechnology, airborne infectious diseases	Mentor	4	5	1	0	1	0

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Field, R. William	PhD	Professor	Occupational & Environmental Health	Pulmonary diseases, radon measurement and health effects, occupational and environmental epidemiology	Mentor	4	8	7	0	2	2
Gerke, Alicia	MD	Assistant Professor	Internal Medicine - Pulmonary, Critical Care, Occupational Medicine	Critical care medicine, pulmonary diseases	Mentor	0	2	2	0	0	N/A
Hoffman, Eric	PhD	Professor	Radiology – Division of Physiologic Imaging	Advanced imaging methodologies to study basic respiratory physiology centered largely on mechanisms of ventilation and perfusion heterogeneity and regional lung mechanics	Co-PI, Mentor	3	11	8	1	10	8
Hoth, Karin	PhD	Assoc. Professor	Psychiatry	COPD, Imaging	Junior Mentor	0	0	N/A	0	0	N/A
Jacob, Mathews	PhD	Assoc. Professor	Electrical & Computer Engineering	Imaging processing, computer aided therapy planning	Mentor	6	4	4	2	1	1

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Johnson, Hans	PhD	Assoc. Professor	Electrical & Computer Engineering	Large scale, heterogeneous, multi-site data collections using modern High Performance Computing (HPC) resources	Mentor	5	3	3	0	0	N/A
Kaczka, David	MD, PhD	Assoc. Professor	Anesthesia	Respiratory physiology, respiratory mechanics, patient monitoring	Mentor	2	4	3	1	5	4
Lin, Ching-Long	PhD	Professor	Mechanical Engineering	Multiscale simulation of gas flow and particle transport in the human lungs, turbulent flow in complex geometry, fluid-structure interaction, and parallel computing	Mentor	3	9	6	1	7	6
Lynch, Charles	PhD	Professor	Epidemiology	Environmental epidemiology, cancer surveillance, cancer etiology, and cancer prevention and control	Mentor	3	9	9	1	5	3

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Magnotta, Vincent A	PhD	Professor	Radiology – Division of Neuroradiology	Development of novel imaging approaches and analysis strategies to better understand the psychiatric and neurological brain disorders	Mentor	1	13	6	1	3	3
McCray, Paul	MD	Professor	Pediatrics – Allergy, Immunology, and Pulmonary	airway epithelial biology, innate immunity, and the applications of gene transfer for lung diseases	Mentor	0	5	4	0	6	6
O'Shaughnessy, Patrick	PhD	Professor	Occupational & Environmental Health	Enhancement of computational fluid dynamic (CFD) models of the deposition of aerosols in the human lung	Mentor	0	4	4	0	0	N/A
Raghavan, Suresh	PhD	Professor	Biomedical Engineering	Cardiovascular Biomechanics and Devices	Mentor	4	6	6	1	3	2
Reinhardt, Joseph	PhD	Professor	Biomedical Engineering	Image processing, medical imaging, signal processing, cardiopulmonary imaging	Co-PI, Mentor	1	10	9	0	2	1

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Saha, Punam	PhD	Professor	Electrical & Computer Engineering	Tensor scale-based image analysis digital topology and geometry, object class uncertainty theory in images segmentation and classification	Mentor	3	11	4	0	5	4
Sieren, Jessica	PhD	Assistant Professor	Radiology – Department of Physiologic Imaging	Multimodal investigation of lung nodules, incorporating computed tomography, nuclear imaging, and histopathology	Mentor	1	5	4	0	0	N/A
Sonka, Milan	PhD	Professor	Electrical & Computer Engineering	Medical image processing and analysis	Mentor	3	14	11	2	13	11
Spitz, Douglas	PhD	Professor	Radiation Oncology	Free Radical Biology and Medicine	Mentor	5	13	11	1	6	4
Stoltz, David	MD, PhD	Professor	Internal Medicine - Pulmonary, Critical Care, Occupational Medicine	pulmonary diseases and lung infections, advanced airway imaging modalities and analysis	Mentor	1	3	3	1	1	1

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Sunderland, John J	PhD	Associate Professor	Radiology – Division of Nuclear Medicine	Quantitative PET, cyclotron-based radionuclide production, and small animal imaging	Mentor	0	5	5	0	3	3
Udaykumar, HS	PhD	Professor	Mechanical Engineering	Computational fluid dynamics, biofluid mechanics, materials processing	Mentor	4	6	3	2	5	4
Weiner, George	MD	Professor	Internal Medicine – Hematology, Oncology and Blood and Marrow Transplantation	Study of mechanisms of action of anti-cancer monoclonal antibodies, and development of novel approaches to immunotherapy of lymphoma	Mentor	0	4	3	2	2	2
Welsh, Michael	MD	Professor	Internal Medicine - Pulmonary, Critical Care, Occupational Medicine	Biology of cystic fibrosis (CF) pathogenesis	Mentor	3	7	6	5	16	14
Wu, Xiaodong	PhD	Professor	Electrical & Computer Engineering	Computer-aided medical surgery and diagnosis, biomedical image analysis	Mentor	1	5	5	2	1	1

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Zabner, Joseph	MD	Professor	Internal Medicine - Pulmonary, Critical Care, Occupational Medicine	Gene transfer to human airway epithelia in particular to develop gene therapy for cystic fibrosis, fluid composition of the airway surface liquid and how it affects innate immunity	Mentor	1	6	5	0	19	13