	Yale Biomedical Engineering PhD Graduates			
Name	Thesis Title	Mentor	Calendar Year	Mont
yan Nguyen	Multiscale Approaches for Uncovering Mechanobiological Phenomena in Tissue Engineering and Cancer	Mak	2023	May
ate Bridges	Image Analysis and Biomechanics for Patient-Specific Mitral Valve Modeling from Transesophageal Echocardiography	Miller-Jensen	2023	May
ang Yang	Analysis of in Vitro Self-Assembling Networks	Levchenko	2023	May
qi Wang	Uncovering the Function and Molecular Mechanism of MILI in Mouse Germline Stem Cells	Lin	2023	May
oorz Feizi	Engineering Tools for High-Throughput Ex Vivo Human Organ Research	Tietjen	2023	May
vid Dellal	Development and Validation of an Advanced Mechatronic Organ Preservation Platform	Sestan	2023	May
vin Ta	Multi-task Learning for Cardiac Motion Analysis and Segmentation in Echocardiography	Duncan	2023	May
exandra Suberi	Pulmonary Delivery of mRNA Therapeutics	Saltzman	2023	May
cher Hamidzadeh	Elucidating Extracellular Signal-Regulated Kinase (ERK) Dynamics with FRET-based Biosensors	Levchenko	2022	December
ve O'Connor	Quantitative Analysis of Dynamic Functional Connectivity in the Brain	Constable	2022	December
mei Liu	Expanding the Repertoire and Applications of Single-Domain Antibodies	Carson	2022	December
igjian Zhang	Biophysical Signatures in Cancer and Sickle Cell Disease	Mak	2022	December
exander Josowitz	Polymeric Nanoparticles for the Local Delivery of Small Molecule Inhibitors: Applications Toward Glioblastoma and Airway	Saltzman	2022	December
awn Ahn	Attention Neural Network for Cardiac Strain Analysis in 3D Echocardiography	Duncan	2022	December
becca Byler	A Rational Approach to the Development of Topical Patches for Treatment of Cutaneous Leishmaniasis	Kyriakides	2022	December
o Xing	Cell- and Extracellular Matrix-Based Approaches to Investigate Diabetic Fibroblasts and Improve Wound Healing	Kyriakides	2022	May
ang Liu	Tumor Cell Migration and Interaction with ECM and Stroma in 3D Tissue Models	Mak	2022	May
ch Connerty-Marin	Quantifying Membrane Topology at the Nanoscale	Bewersdorf	2022	May
nSoo Khang	Intrathecally Delivered NPs for Treatment of Leptomeningeal Metastasis	Saltzman	2022	May
Shen	The Investigation of Reverse Remodeling Phenomenon in Engineered Heart Tissues	Campbell	2022	May
ette Creso	Multi-Scale Modeling of Myocardial Mechanical Function and Disease	Campbell	2022	May
itang Zhuang	Machine Learning Methods to Estimate Whole-Brain Effective Connectome for ASD Identification	Duncan	2022	May
irgaret Elise Bullock	Exploring Chromatin-mediated Regulation of Transcriptional Noise with Stochastic Models of HIV Gene Expression	Miller-Jensen	2022	May
n Chen	Development and Delivery of Genome-Editing Therapies for Improved Glioblastoma Treatment	Zhou	2022	May
herine Leiby	Engineering Functional Distal Lung Epithelium	Niklason	2022	May
s M'Saad	Light Microscopy of Proteins in their Ultrastructural Context	Bewersdorf	2022	-
				May
vin Hu	Multi-color isotropic super-resolution in living cells	Bewersdorf	2022	May
mantha Rossano	Synaptic Density Imaging with SV2A using Positron Emission Tomography: Optimization of Reference Region Analysis and		2021	December
drew Barentine	Quantitative Super-Resolution Microscopy	Bewersdorf	2021	December
uhammad Khan	Transcompartmental Sodium Imaging in Brain Cancer	Hyder	2021	December
ison Greaney	Improvements in Pulmonary Tissue Engineering: Toward Functional Tracheal and Lung Replacements	Niklason	2021	May
uan Gao	Latent Factor Analysis of high-dimensional Brain Imaging Data	Scheinost	2021	May
a Matta	The Role of Microvascular Signaling in the Neurogenic Niche	Gonzalez	2021	May
ward Han	Development of a Vascular Bioartificial Endocrine Pancreas	Niklason	2021	May
ather Liu	Kinetic Modeling, Parameter Estimation and Model Comparison in PET: Functional Images of Neurotransmitter Dynamics	Morris	2021	May
nn Walsh	Surveilling the Distinctive Vascular and Metabolic Features of Tumor Progression and Response to Therapy	Hyder	2021	May
cha Sam Raredon	Single-Cell Systems Engineering of Alveolar Lung	Niklason	2020	December
yao Shi	Advanced Quantitative Cardiac Nuclear Imaging	Liu	2020	December
nanda Alexander	Investigating the Regulation and Consequences of Cell-to-Cell Heterogeneity in the TLR4-Induced Macrophage Secretion		2020	December
son Szafron	Mathematical Models for Improved Design of Tissue Engineered Vascular Grafts	Humphrey	2020	December
renzo Sewanan	Investigating the mechanobiology of Hypertrophic Cardiomyopathy using human stem-cell derived cardiomyocytes, engin		2020	December
ch Augenfeld	Automatic Multimodal Registration via Intraprocedural Cone-beam CT Segmentation Using MRI Distance Map		2020	May
fery (Alex) Clark	Characterizing the Impact of Microscale Heterogeneity on Macroscopic Mechanical Function in the Myocardiu		2020	May
mak Khosravi	A Data-Driven Computational Model of Tissue Engineered Vascular Grafts for Treatment of Congenital Heart	Humphrey	2020	May
becca LaCroix	An Investigation of the Effects of Kinase Localization on Cell Signaling and Behavior	Levchenko	2020	May
ioxiao Li	Data-Driven Strategies for Characterizing Neuroimaging Biomarkers in Autism	Duncan	2020	May
omiposi Loye	Bulk Metallic Glass for Orthopaedic Applications	Kyriakides	2020	May
nald Ng	Investigating the Role of Mechanical Loading in Arrhythmogenic Cardiomyopathy	Campbell	2020	May
n Zhang	Layer Embedding Analysis in Convolutional Neural Networks for Improved Uncertainty Estimation and Classifi		2020	May
an Bickerton	Nanoparticle Systems for the In Vivo Generation of Regulatory T Cells in Autoimmune Disease Therapy	Fahmy	2019	December
dine Dispenza	Accelerated Nonlinear Gradient Encoding Strategies for Parallel Magnetic Resonance Imaging	Constable	2019	December
	Tumor-Targeted Inhibition of Oncogenic MicroRNAs for Cancer Therapy using pH-Low Insertion Peptide (pHL		2019	December
exander Svoronos		-		becceniber
aryGrace Velasco	Three-Dimensional STED Microscopy for Deep-Tissue Applications	Bewersdorf	2019	December
ari Yosinski	Electronic Particle Manipulation for Lab-on-chip Diagnostics	Reed	2019	December
ng Xiao	Microvascular Engineering for Disease Modeling and Regenerative Medicine	Fan	2019	May
xander Engler	Integrated Physiological and System Design Approaches for Whole Lung Tissue Engineering	Niklason	2019	May
ung-Eun Seo	Nanoparticles for local delivery of miRNA inhibitors to treat glioblastoma	Saltzman	2019	May
io Chen	Single-Cell Microchips for Profiling Macrophage Activation Dynamics	Fan	2019	May
Linsmeier	Active Actomyosin Mechanics: Cooperativity and Scaling of Contraction in Disordered Networks	Murrell	2018	December
iying (Allen) Lu	Learning-based Regularization for Cardiac Strain Analysis	Duncan	2018	December
	Simultaneous Imaging of Drug Delivery and Cancer Therapy: Towards Glioma Diagnostics and Therapeutics			
muel Maritim	with High-Resolution Extracellular pH Mapping	Hyder	2018	December
ele Ricciardi	Nanoparticles for Site-Specific Gene Editing In Utero	Saltzman	2018	December
na Korneva	Effects of Elastic Fiber Impairment and Hypertension on Biomechanics of the Mouse Aorta	Humphrey	2018	May
dres Munoz Rojas	Analysis of Macrophage Polarization: Single-Cell Responses in Controlled and Tumor Microenvironments	Miller-Jensen	2018	May
n Ren	Novel Algorithms for Motion Correction and Image Processing in Positron Emission Tomography	Carson	2018	
in nell		Carboll	2010	May
anda Bollowia	Pericytes as Regulators and Responders: Engineered Human Microvessels to Study Cell-Cell and Cell-Matrix	Contalot	2019	May
anda Pellowe			2018	May
Xhangoli	High-content Multi-omic Analysis of anti-CD19 CAR-T Therapy	Fan	2018	May
	Engineered Heart Tissue as a means of investigating the functional role of Myosin Binding Protein C in			
as Schwan	Familial Hypertrophic Cardiomyopathy	Campbell	2018	May
da Fong	Data-Driven Analysis of Phospho-Signaling Network Responses Enables Latent HIV-Infected T Cell Targeting	Miller-Jensen	2018	May
yi Wang	Single cell microRNA analysis	Fan	2018	May
han Khan	Characterization of the Biophysical Parameters Governing Nanoparticle-Based Drug Delivery to B Cells	Fahmy	2017	December
	Modulation of the Host Response through Genetically Engineered Extracellular Matrix and Controlled Drug Delivery	Kyriakides	2017	December
ron Morris				
	A Thromboresistant Cell-Derived Biomaterial Modification for Vascular Grafts	Kyriakides	2017	Decombor
a Kristofik	A Thromboresistant Cell-Derived Biomaterial Modification for Vascular Grafts	Kyriakides	2017	December
na Kristofik	A Thromboresistant Cell-Derived Biomaterial Modification for Vascular Grafts Poly(amine-co-ester) nanoparticles for the delivery of siRNA therapeutics	Kyriakides Saltzman	2017 2017	December
a Kristofik ia Cui	Poly(amine-co-ester) nanoparticles for the delivery of siRNA therapeutics	Saltzman	2017	December
aron Morris na Kristofik jia Cui ran Petrulli nil Kromann				December

Amanda King	Convection-Enhanced Delivery of Radiosensitizer-Loaded Nanoparticles for the Treatment of High-Grade Gliomas	Saltzman	2017
Mary Germino	Improved Quantification in Dynamic PET via Advanced Reconstruction Methods for Parametric Imaging	Carson	2017
Yu Lin	Development of High-throughput Single Molecule Switching Nanoscopy	Bewersdorf	2017
Matthew Bersi	Biomechanics of Angiotensin II Induced Vascular Remodeling	Humphrey	2016
	Hemodynamics-Driven Deposition of Thrombus in Aortic Aneurysms and Dissections		2010
Paolo Di Achille	SINGLE CELL FUNCTIONAL ANALYSIS: from HEMATOPOIETIC CANCER to AUTOIMMUNITY	Humphrey	
Minsuk Kwak		Fan	2016
	Modeling the Microvasculature: Novel In Vitro Models of the Human Microvasculature to Elucidate the Roles of		
Holly Lauridsen	Pericytes and Extracellular Matrix in Innate Inflammation.	Gonzalez	2016
	Development and Optimization of PET Modeling Methods for Imaging Addiction: Characterizing the Brain's Dopamine		
Shuo Wang	Signature of Cigarette Smoking	Morris	2016
Sashka Dimitrievska	Glycocalyx-Like Coating of Decellularized Vascular Grafts: Glycomimicry	Niklason	2016
Jagannath Padmanabhan	Engineering Cellular Response Using Nanopatterned Bulk Metallic Glass	Kyriakides	2016
	Pericyte-Derived Extracellular Matrix: Role of Remodeled Basement Membrane and Interstitial Tissue in Angiogenesis,		
Parid Sava	Inflammation, and Fibrosis	Gonzalez	2016
Christina Shu	Translational Functional MRI Techniques for Quantitative Studies of Brain Function	Hyder	2016
Amogh Sivarapatna	Vascular Tissue Regeneration Using Endothelial Cells Derived From Human Induced Pluripotent Stem Cells	Niklason	2016
			2010
Jacopo Ferruzzi	Biomechanics of Large Artery Stiffening and its Role in Cardiovascular Disease Progression	Humphrey	
Brendan Huang	All-optical Quantification of Ciliary Physiology	Choma	2015
Chenxi Huang	Robust Estimator for Cryo-EM Class Means in the Presence of Outliers	Tagare	2015
Jennifer Saucier-Sawyer	Enhanced Systemic and Local Delivery of Targeted, Brain-penetrating, Polymeric Nanoparticles for Glioblastoma	Saltzman	2015
	Growth and Remodeling of Heterogeneously Evolving Abdominal Aortic Aneurysms: Computational Modeling and		
John Wilson	Experimental Insights	Humphrey	2015
Enping Hong	The Biophysical Context of Interleukin-15 Presentation: Strategies for Biomimetic Cytokine Delivery	Fahmy	2015
	Induction of Immunological Tolerance with Biodegradable Immune Modulating		
Michael McHugh		Fahren	2015
•	Nanosystems	Fahmy	
Alyssa Siefert	Biomimetic Nanosystems Targeting Antigen-Presenting Cells for Improved Immunotherapeutics	Fahmy	2015
	Spatial Resolution Improvement in Positron Emission Tomography: Physics, Statistical Models and Iterative Image		2014
Yiqiang Jian	Reconstruction	Carson	2014
Jingjing Kanik	Image Analysis and Biomechanics for Patient-Specific Mitral Valve Modeling from Transesophageal Echocardiography	Duncan	2014
David Simon	Biomechanics and remodeling of free-floating tissue equivalents	Humphrey	2014
Elizabeth Calle	Alveolar Barrier Function in Engineered Lung Tissue	Niklason	2014
	Enhance the ECM Properties and Mechanical Properties of Tissue-Engineered Vessels via Novel Biomechanical and		2014
Angela Huang	Biochemical Approaches: Biaxial Bioreactors and microRNA29 Inhibitor	Niklason	2011
	Alginate-Encapsulated Pericytes and Freely Suspended Endothelial Cells for Vascular Self-Assembly: A Study of Paracrine		2014
Jullian Andrejecsk	Communication in Microvascular Tissue Engineering	Saltzman	2014
Alp Kucukelbir	Sparse and Steerable Representations for 3D Electron Cryomicroscopy	Tagare	2014
Christine Sandiego	Neuroreceptor Imaging of the Awake Nonhuman Primate	Carson	2013
christine Sandlego		Carson	2015
	Cerebral Blood Flow Measurements Using Carotid Artery Image-Derived Input Functions in Positron Emission		2013
Edward Fung	Tomography	Carson	
			2013
Xiao Jin	Event-by-Event Motion Correction in Positron Emission Tomography: Development, Evaluation and Applications	Carson	2015
	Nonlinear Encoding MRI: Multi-slice and Oblique O-space Imaging, Null Space Imaging, and Pseudo-random O-space for		
Leo Tam	Accelerated Parallel Imaging	Constable	2013
	Development and Application of Voxel-based Resting-state Functional Magnetic Resonance Imaging Methods: The		
Ductin Cohoinest	Intrinsic Connectivity Distribution	Constable	2013
Dustin Scheinost		Constable	2012
Colin Compas	Radial Basis Functions for Combining Shape and Speckle Tracking in Echocardiography	Duncan	2013
	Development of PET Methodologies for Imaging Addiction: Imaging the mGluR5 and detecting smoking-induced		2013
Jenna Sullivan	dopamine release	Morris	2015
Rachel Fields	Novel Polymeric Nanoparticles for Pulmonary Gene Delivery	Saltzman	2013
Nicole McNeer	Nanoparticles for Site-Specific Genome Editing	Saltzman	2013
Kevin Tang			
iteriti tung	MRI based immune cell tracking in stroke	Shaniro	2013
	MRI based immune cell tracking in stroke Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans:	Shapiro	2013
Della Cista	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans:		2013 2012
Pelin Ciris	-	Shapiro Constable	
	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship	Constable	
Jason Stockmann	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging	Constable Constable	2012 2012
Jason Stockmann Nicha Dvornek	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences	Constable Constable Duncan	2012 2012 2012
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Jason Stockmann Nicha Dvornek Michael Look Jason Criscione	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications	Constable Constable Duncan Fahmy Fahmy	2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair	Constable Constable Duncan Fahmy	2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications	Constable Constable Duncan Fahmy Fahmy	2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair	Constable Constable Duncan Fahmy Fahmy Saltzman	2012 2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa Michael Nkansah Margaret Bennewitz	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair Biodegradable Magnetic Particles for Cellular MRI Complimentary Cellular and Molecular Diagnostic Imaging Approaches for Cancer	Constable Constable Duncan Fahmy Fahmy Saltzman Shapiro Shapiro	2012 2012 2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa Michael Nkansah	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair Biodegradable Magnetic Particles for Cellular MRI Complimentary Cellular and Molecular Diagnostic Imaging Approaches for Cancer Likelihood-Based Reconstructions of Geometrically Constrained Single Particles in Cryo-EM	Constable Constable Duncan Fahmy Fahmy Saltzman Shapiro	2012 2012 2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa Michael Nkansah Margaret Bennewitz Andrew Barthel	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair Biodegradable Magnetic Particles for Cellular MRI Complimentary Cellular and Molecular Diagnostic Imaging Approaches for Cancer Likelihood-Based Reconstructions of Geometrically Constrained Single Particles in Cryo-EM Therapeutic Modulation of TGF-β signaling in Alloimmune Disease and the Anticancer Immune Response: A critical role	Constable Constable Duncan Fahmy Fahmy Saltzman Shapiro Shapiro Sigworth	2012 2012 2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa Michael Nkansah Margaret Bennewitz Andrew Barthel Jason Park	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair Biodegradable Magnetic Particles for Cellular MRI Complimentary Cellular and Molecular Diagnostic Imaging Approaches for Cancer Likelihood-Based Reconstructions of Geometrically Constrained Single Particles in Cryo-EM Therapeutic Modulation of TGF-§ signaling in Alloimmune Disease and the Anticancer Immune Response: A critical role for rationally designed drug delivery	Constable Constable Duncan Fahmy Saltzman Shapiro Shapiro Sigworth Fahmy	2012 2012 2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa Michael Nkansah Margaret Bennewitz Andrew Barthel Jason Park Joseph Zinter	 Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair Biodegradable Magnetic Particles for Cellular MRI Complimentary Cellular and Molecular Diagnostic Imaging Approaches for Cancer Likelihood-Based Reconstructions of Geometrically Constrained Single Particles in Cryo-EM Therapeutic Modulation of TGF-ß signaling in Alloimmune Disease and the Anticancer Immune Response: A critical role for rationally designed drug delivery Optimizing Fluorescence Collection Efficiency in Multiphoton Microscopy 	Constable Constable Duncan Fahmy Fahmy Saltzman Shapiro Sigworth Fahmy Levene	2012 2012 2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa Michael Nkansah Margaret Bennewitz Andrew Barthel Jason Park Joseph Zinter Hon Pong Ho	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair Biodegradable Magnetic Particles for Cellular MRI Complimentary Cellular and Molecular Diagnostic Imaging Approaches for Cancer Likelihood-Based Reconstructions of Geometrically Constrained Single Particles in Cryo-EM Therapeutic Modulation of TGF-β signaling in Alloimmune Disease and the Anticancer Immune Response: A critical role for rationally designed drug delivery Optimizing Fluorescence Collection Efficiency in Multiphoton Microscopy Fasciculography: Volumetric Tract Parcellation from Diffusion Magnetic Resonance Images	Constable Constable Duncan Fahmy Fahmy Saltzman Shapiro Sigworth Fahmy Levene Staib	2012 2012 2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa Michael Nkansah Margaret Bennewitz Andrew Barthel Jason Park Joseph Zinter	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair Biodegradable Magnetic Particles for Cellular MRI Complimentary Cellular and Molecular Diagnostic Imaging Approaches for Cancer Likelihood-Based Reconstructions of Geometrically Constrained Single Particles in Cryo-EM Therapeutic Modulation of TGF-β signaling in Alloimmune Disease and the Anticancer Immune Response: A critical role for rationally designed drug delivery Optimizing Fluorescence Collection Efficiency in Multiphoton Microscopy Fasciculography: Volumetric Tract Parcellation from Diffusion Magnetic Resonance Images LV Segmentation and Motion Analysis from 4D Cardiac Images	Constable Constable Duncan Fahmy Fahmy Saltzman Shapiro Sigworth Fahmy Levene	2012 2012 2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa Michael Nkansah Margaret Bennewitz Andrew Barthel Jason Park Joseph Zinter Hon Pong Ho	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair Biodegradable Magnetic Particles for Cellular MRI Complimentary Cellular and Molecular Diagnostic Imaging Approaches for Cancer Likelihood-Based Reconstructions of Geometrically Constrained Single Particles in Cryo-EM Therapeutic Modulation of TGF-β signaling in Alloimmune Disease and the Anticancer Immune Response: A critical role for rationally designed drug delivery Optimizing Fluorescence Collection Efficiency in Multiphoton Microscopy Fasciculography: Volumetric Tract Parcellation from Diffusion Magnetic Resonance Images	Constable Constable Duncan Fahmy Fahmy Saltzman Shapiro Sigworth Fahmy Levene Staib	2012 2012 2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa Michael Nkansah Margaret Bennewitz Andrew Barthel Jason Park Joseph Zinter Hon Pong Ho Yun Zhu	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair Biodegradable Magnetic Particles for Cellular MRI Complimentary Cellular and Molecular Diagnostic Imaging Approaches for Cancer Likelihood-Based Reconstructions of Geometrically Constrained Single Particles in Cryo-EM Therapeutic Modulation of TGF-β signaling in Alloimmune Disease and the Anticancer Immune Response: A critical role for rationally designed drug delivery Optimizing Fluorescence Collection Efficiency in Multiphoton Microscopy Fasciculography: Volumetric Tract Parcellation from Diffusion Magnetic Resonance Images LV Segmentation and Motion Analysis from 4D Cardiac Images	Constable Constable Duncan Fahmy Fahmy Saltzman Shapiro Sigworth Fahmy Levene Staib Duncan	2012 2012 2012 2012 2012 2012 2012 2012
Jason Stockmann Nicha Dvornek Michael Look Jason Criscione Serge Kobsa Michael Nkansah Margaret Bennewitz Andrew Barthel Jason Park Joseph Zinter Hon Pong Ho Yun Zhu Stacey Demento	Whole-Brain Non-Invasive Absolute Cerebral Blood Volume Quantification During Functional Activation in Humans: Characterizing the Absolute Cerebral Blood Flow and Volume Relationship New Strategies for Accelerated Spatial Encoding with Quadratic Fields in Magnetic Resonance Imaging Registration of Pre- and Post-Treatment Brain Images with Missing Correspondences Design and characterization of nanoparticles used for lupus therapy Designing Dendrimer-based Nanosystems for Multimodal Imaging and Theranostic Applications Development of bioengineered constructs for tissue regeneration and repair Biodegradable Magnetic Particles for Cellular MRI Complimentary Cellular and Molecular Diagnostic Imaging Approaches for Cancer Likelihood-Based Reconstructions of Geometrically Constrained Single Particles in Cryo-EM Therapeutic Modulation of TGF-β signaling in Alloimmune Disease and the Anticancer Immune Response: A critical role for rationally designed drug delivery Optimizing Fluorescence Collection Efficiency in Multiphoton Microscopy Fasciculography: Volumetric Tract Parcellation from Diffusion Magnetic Resonance Images LV Segmentation and Motion Analysis from 4D Cardiac Images	Constable Constable Duncan Fahmy Saltzman Shapiro Sigworth Fahmy Levene Staib Duncan Fahmy	2012 2012 2012 2012 2012 2012 2012 2012
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Sara Royce Hynes	Biomaterial Scaffolds for Retinal Repair: The Synthesis and Characterization of Three Poly (Ethylene Glycol)/Poly (L- lysine) Hydrogels and their Influence on Neural Progenitor Cells	Lavik	2009
Steven Jay	Engineering Drug Delivery into Regenerative Medicine: Enhancing Therapeutic Vascularization through a Combined Molecular and Cellular Approach	Saltzman	2009
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Ning Lin	Towards Automatic Cardiac Motion Analysis	Duncan	2006
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