

Poster Number	First & Last Name	Abstract Title	Authors	Affiliation	Current Role at Hopkins
1	Mohammad Keykhaei	Unraveling the Serine Synthesis Pathway: Implications for Altered Cardiac Metabolism in Heart Failure	Mohammad Keykhaei, Navid Koleini, Mariam Meddeb, Nathaniel Snyder, Farnaz Farshidfar, Virginia Hahn, Kavita Sharma, David Kass	Department of Medicine, School of Medicine	Fellow
2	Mohammad Keykhaei	TSC2-mTOR Axis Exerts Biased Control over Macrophage Infiltration Following Myocardial Infarction	Mohammad Keykhaei, Navid Koleini, Mariam Meddeb, Mark J Ranek, David Kass	Department of Medicine, School of Medicine	Fellow
3	Mohammad Keykhaei	Integrated Multiomics Landscape of Cardiac Metabolism in Human Heart Failure with Preserved Ejection Fraction	Mohammad Keykhaei, Vivek P Jani, Edwin Yoo, Virginia Hahn, Navid Koleini, Kavita Sharma, David A Kass	Department of Medicine, School of Medicine	Fellow
4	Somdatta Goswami	Neural operators to detect aortic aneurysm contributors	Somdatta Goswami, David Li, Jay D. Humphrey, and George Em Karniadakis	Whiting School of Engineering	Assistant Professor
5	Michael Waight	Determining the Accuracy of MRI-based Computational Modelling in Predicting Critical Substrate in Ventricular Tachycardia	Michael Waight Adityo Prakosa Anthony Li Magdi Saba Natalia Trayanova	Whiting School of Engineering	Fellow

6	Styliani Karanika	Intranasal delivery of a novel DNA therapeutic vaccine targeting the Mycobacterium tuberculosis stringent response factor RelMtb to dendritic cells shortens the duration of curative TB treatment	KARANIKA STYLIANI, YILMA ADDIS, WANG TIANYIN, RUELAS CASTILLO JENNIE, QUIJADA DARLA, BAILEY HANNAH, GORDY JAMES, CHEN IRIS, KARANTANOS THEODOROS, MARKHAM RICHARD, KARAKOUSIS PETROS.	Department of Medicine, School of Medicine	Assistant Professor
7	Tanner Grudda	ddPCR detects HBV DNA and RNA in the majority of livers after HBsAg loss	Tanner Grudda David L. Thomas Gregory D. Kirk Shruti H. Mehta Jacquie Astemborski Georg M. Lauer Ashwin Balagopal Chloe L. Thio	Department of Medicine, School of Medicine	Student
8	Prachi Agarwal	Enhancing Ear ECG Analysis during CPR Using Adaptive Filtering	Prachi Agarwal  Yu Guo  Nitish V. Thakor	Whiting School of Engineering	Student
9	Autumn Williams	Diagnosis of Schizophrenia using a Novel Resting-State fMRI Marker of Regional Interactions in the Brain Network	AUTUMN WILLIAMS, LUIS SANCHEZ, SRI SARMA	Department of Medicine, School of Medicine	Student
10	Shinuo Weng	Multiscale mechanobiology shapes tissues in development	Shinuo Weng	Whiting School of Engineering	Assistant Professor

11	Richard Carrick	Identification of High-Risk Imaging Features in Hypertrophic Cardiomyopathy Using Electrocardiography: A Deep-Learning Approach	Richard T. Carrick, Hisham Ahamed, Eric Sung, Martin S. Maron, Christopher Madias, Vennela Avula, Rachael Studley, Chen Bao, Nadia Bokhari, Erick Quintana, Rajesh Kannan, Barry J. Maron, Ethan J. Rowin, Katherine C. Wu	Department of Medicine, School of Medicine	Fellow
12	Xiangbo Ruan	A novel non-coding genetic variant affects blood lipids by regulating a human-specific long non-coding RNA	Xiangbo Ruan	Department of Medicine, School of Medicine	Assistant Professor
13	Emily Reed	Designing Patient-Specific Neurostimulation to Suppress Seizures	Emily A. Reed, Kyra Bowden, Arianna Damiani, Rachel June Smith, Jorge A. González-Martínez, Joon Y. Kang, and Sridevi V. Sarma	Whiting School of Engineering	Fellow
14	Mason Lo	Intrahepatic high-resolution transcriptomic landscapes in chronic hepatitis B uncover heterogeneity in viral transcription that is associated with host gene regulation	Che-Min Lo, Wentao Zhan, Ruzhang Zhao, Hongkai Ji, Chloe L. Thio, Ashwin Balagopal	Department of Medicine, School of Medicine	Student
15	Maraake Taddese	The source of hepatitis B surface antigen (HBsAg) in individual hepatocytes shifts from cccDNA-derived to integrated HBV DNA (iDNA)-derived with nucleos(t)ide analogue (NUC) therapy	Maraake Taddese, Tanner Grudda, Hyon S. Hwang, Yasmeen Saad, Kristina Zambo, Naomi Esrig, Mark S. Sulkowski, Richard K. Sterling, Ashwin Balagopal, Chloe L. Thio	Department of Medicine, School of Medicine	Staff
16	Savannah Hays	Revisiting registration-based synthesis: a focus on unsupervised MR image synthesis	Savannah P. Hays, Lianrui Zuo, Yihao Liu, Jiachen Zhuo, Jerry L. Prince, and Aaron Carass	Whiting School of Engineering	Student

17	Yujie Yan	Relapse prediction through convolutional autoencoders and clustering for psychotic patients using wearable data.	April Yujie Yan	Department of Medicine, School of Medicine	Student
18	Chenkai Jiang	A high-dimensional multiplex ddPCR assay to quantify the diversity and frequency of hepatitis B virus splice variant RNAs	Chenkai Jiang, Tanner Grudda, Ashwin Balagopal, Chloe L. Thio	Department of Medicine, School of Medicine	Student
19	Anna Favaro	Unveiling Parkinson's Disease: Probing the Prodromal Phase with Longitudinal Speech Analysis for Early Detection and Monitoring	Anna Favaro, Ankur Butala, Thomas Thebaud, Jesús Villalba, Najim Dehak, Laureano Moro-Velázquez	Whiting School of Engineering	Student
20	Samuel Remedios	Pushing the limits of zero-shot self-supervised super-resolution of anisotropic MR images	Samuel W. Remedios, Shuwen Wei, Blake E. Dewey, Aaron Carass, Dzung L. Pham, Jerry L. Prince	Whiting School of Engineering	Student
21	Naveen Pandey	The effect of perinatal and early-life exposure to metal mixtures on neurodevelopment	Naveen Chandra, A. Bhohe, A. Graves, B. Yeung-Luk, M. Kohr, S. Biswal, and F. Sille	Department of Medicine, School of Medicine	Fellow
22	Kehan Ren	Assembloid modeling using the oil-in-water droplet microtechnology	Kehan Ren, Ashleigh J. Crawford, Isha Bhorkar, David Schell, André Forjaz, Vasco Queiroga, Denis Wirtz	Whiting School of Engineering	Student
23	Iliia Rattsev	Mathematical Modeling of Estrogen Regulation of Bone Remodeling	Iliia Rattsev, Casey Overby Taylor	Department of Medicine, School of Medicine	Student
24	Minglang Yin	DIMON: Learning Solution Operators of Partial Differential Equations on a Diffeomorphic Family of Domains	Minglang Yin, Nicolas Charon, Ryan Brody, Lu Lu, Natalia Trayanova, Mauro Maggioni	Whiting School of Engineering	Staff

25	Claire Snyder	Navigating the Use of Patient-Reported Outcomes in Clinical Trials and Clinical Practice: The PROTEUS Consortium	Claire Snyder Anne Schuster Norah Crossnohere Michael Brundage	Department of Medicine, School of Medicine	Professor
26	William Wright	Clinical Practice and Research Recommendations for Fever and Inflammation of Unknown Origin Based on a Modified Delphi Consensus Panel	William F. Wright, Lauren Stelmash, Albrecht Betrains, Catharina M. Mulders-Manders, Chantal P. Rovers, Steven Vanderschueren, and Paul G. Auwaerter	Department of Medicine, School of Medicine	Assistant Professor
27	Nimeesha Chan	Large Language Models as combined quantitative and labeled data forecasters for Assured Autonomous Mechanical Ventilators	Nimeesha Chan, Anton Dahbura, Jim Fackler, Kimia Ghobadi	Whiting School of Engineering	Student
28	Nour Naji	CCRL2 promotes malignant cell growth and induces STAT1 signaling in erythroleukemia	Nour S. Naji , Joseph Rimando, Christopher Esteb, Brandy Perkins, Panagiotis Tsakiroglou, Sergiu Pasca, Bogdan Paun, Patric Teodorescu, Stamatia Vorri, Connie Talbot, Tatianna Boronina, Robert Cole, Brian W. Dalton, Leonido Luznik, Richard J. Jones, Theodoros Karantanos	Department of Medicine, School of Medicine	Fellow

29	Tushar Nichakawade	TRBC1-targeting antibody drug conjugates for the treatment of T-cell cancers	Tushar D. Nichakawade, Jiaxin Ge, Brian J. Mog, Bum Seok Lee, Alexander H. Pearlman, Michael S. Hwang, Sarah R. DiNapoli, Nicolas Wyhs, Nikita Marcou, Stephanie Glavaris, Maximilian F. Konig, Sandra Gabelli, Evangeline Watson, Cole Sterling, Nina Wagner-Johnston, Sima Rozati, Lode Swinnen, Ephraim Fuchs, Drew M. Pardoll, Kathy Gabrielson, Nickolas Papadopoulos, Chetan Bettegowda, Kenneth W. Kinzler, Shilin Zhou, Surojit Sur, Bert Vogelstein, Suman Paul	Whiting School of Engineering	Student
30	Mantej Singh	Developing an affordable, miniaturized microscope for non-invasive point-of-care blood cell diagnosis	Mantej Singh	Whiting School of Engineering	Student
31	Piyush Raj	Overcoming limitations of Raman spectroscopy for biomedical applications	Piyush Raj, Ishan Barman	Whiting School of Engineering	Student
32	Balakrishna Vemula	Early Palliative Care Engagement by Screening Implemented by the Emergency Department's Care Coordination Team – A Pilot Program	Balakrishna Vemula, Razeen Karim, Danielle Doberman	Department of Medicine, School of Medicine	Instructor

33	Diksha Gowda	A Cross-Sectional Study on Electrocardiographic Changes In Chronic Kidney Disease Patients in A Tertiary Care Hospital	Meenakshi R, Keshava H K, Chandrashekar HR, and Diksha M Gowda	Department of Medicine, School of Medicine	Fellow
34	Benjamin Killeen	Stand in Surgeon's Shoes: Virtual Reality Cross-training to Enhance Teamwork in Surgery	Benjamin D. Killeen, Han Zhang, Liam J. Wang, Zixuan Liu, Constantin Kleinbeck, Michael Rosen, Russell H. Taylor, Greg Osgood, Mathias Unberath	Whiting School of Engineering	Student
35	Lianrui Zuo	Inconsistent MR acquisition in longitudinal volumetric analysis: impact and solution	Lianrui Zuo, Savannah Hays, Blake Dewey, Samuel Remedios, Yuan Xue, Sandra Cassard, Carolyn Koch, Ann Fishman, Aaron Carass, Jerry Prince, Ellen Mowry, Scott Newsome	Whiting School of Engineering	Student
36	Joban Vaishnav	Comparison of treatment non-responders versus responders in ATTR-CM.	Yazan Alshawkani, Bairavi Shankar, Lisa Yanek, Artrish Jefferson, Daniel Tsottles, Serena Zampino, Jennifer Barranco, Abby Hubbard, Mark Ranek, Kavita Sharma, Michael Polydefkis, Joban Vaishnav	Department of Medicine, School of Medicine	Assistant Professor
37	Emily Ariail	Elucidating the mechanism behind IL-7 potentiation by a neutralizing anti-cytokine monoclonal antibody	Emily Ariail, Paul Sargunas, and Jamie Spangler	Whiting School of Engineering	Student

38	Hannah Swimm	Regulation of Stress Granules by O-GlcNAcylation in Stressed and Ischemic Cardiomyocytes	Hannah Swimm, Wenxi Zhang, Yashas Mallikarjun, Deepthi Ashok, D. Brian Foster, Brian O'Rourke, Natasha E. Zachara, & Kyriakos N. Papanicolaou	Department of Medicine, School of Medicine	Student
39	Naga Vamsi Krishna Machineni	Is Dependent Cannabis Use In Adult Hospitalizations With Inflammatory Bowel Disease Associated With Major Adverse Cardiovascular And Cerebrovascular Events? Insights From National Inpatient Sample Analysis, 2020	Vamsikalyan Borra, Nithya Borra, Naga Vamsikrishna Machineni, Gayatri Bondi, Sai Goutham R Yaritha, Charu Agarwal, Karthikeya Ramasahayam, Purnachandra Rao Kuchipudi, Sravya R Mundla, Prerna Bansal, Sagar A Bathija, Ikechukwu R Ogbu, Rupak Desai	Department of Medicine, School of Medicine	Research Associate
40	Ruohui Zheng	Safety and PK/PD of A Tenofovir Rectal Douche Administered in Different Sequences (DREAM-03)	Ruohui Zheng, Ken Ho, Edward J. Fuchs, Alex Carballo-Diéguez, Lisa C. Rohan, Rebecca Giguere, Rhonda M. Brand, Stacey Edick, Rahul P. Bakshi, Teresa L. Parsons, Cindy E. Jacobson, Christina Bagia, Lin Wang, Mark A. Marzinke, Craig W. Hendrix	Department of Medicine, School of Medicine	Fellow
41	Joël Sop	Bivalent mRNA COVID Vaccines Elicit Predominantly Cross-reactive CD4+ T cell Clonotypes	Joel Sop, Caroline C. Traut, Arbor G. Dykema, Tyler P. Beckey, Christie R. Basseth, Annukka A. R. Antar, Kellie N. Smith*, Joel N. Blankson*	Department of Medicine, School of Medicine	Student
42	Nikhil Sharma	Understanding and Tackling (dis) Information Agents - A Case of Crisis Informatics	Nikhil Sharma Ziang Xiao	Whiting School of Engineering	Student



43	Nikhil Sharma	Computational Approaches to Understanding Surgical Videos: The Case of Cataract Surgery	Nikhil Sharma, Daniel Khashabi, Swaroop Vedula, Shameema Sikder	Whiting School of Engineering	Student
44	Qi Chen	A Comparative Study of Tumor Synthesis in Abdominal Computed Tomography: Reader Studies, Technology Trends, Case Studies, and Future Promises	Qi Chen, Yuxiang Lai, Xiaoxi Chen, Qixin Hu, Alan Yuille, Zongwei Zhou	Whiting School of Engineering	Research Associate
45	Marcos Jaso Vera	LNCRNA-PRE-MRNA INTERACTION MEDIATED SUPPRESSION OF AMINO ACID CATABOLISM IN FATTY LIVER DISEASES	Marcos Emmanuel Jaso Vera Shohei Takaoka Xiangbo Ruan	Department of Medicine, School of Medicine	Fellow
46	Craig Almeida	A Finite Element Analysis of Alternative Laminectomy Procedures	Craig Almeida, Alexandra Seidenstein, Amit Jain, Jill Middendorf	Whiting School of Engineering	Student
47	Tiezheng Zhang	Leveraging AI Predicted and Expert Revised Annotations in Interactive Segmentation: Continual Tuning or Full Training?	Tiezheng Zhang, Xiaoxi Chen, Chongyu Qu, Alan Yuille, Zongwei Zhou	Whiting School of Engineering	Student
48	Tamisha Segbefia	Characterizing polygenic risk scores among a breast cancer cohort in the All of Us program	Tamisha Dzifa Segbefia	Whiting School of Engineering	Student
49	Sanjeev Noel	Immune checkpoint inhibitor TIGIT ligands CD155 and CD112 increase during acute kidney injury	Shishir Patel, Radhika Kapoor, Qisen Guo, Mahta Gooya, Hamid Rabb & Sanjeev Noel	Department of Medicine, School of Medicine	Assistant Professor
50	Sanjeev Noel	Inducible deletion of transcription factor Nrf2 in the renal proximal tubule after severe acute kidney injury modifies repair and fibrosis	Sanjeev Noel, Shishir Patel, Mahta Gooya, Qisen Guo, Aparna Ankireddy, Sekhar P Reddy & Hamid Rabb	Department of Medicine, School of Medicine	Assistant Professor

51	Sanjeev Noel	T cell metabolic reprogramming with glutamine antagonist JHU083 after severe acute kidney injury reduces kidney fibrosis/CKD	Kyungho Lee, Shishir Patel, Sepideh Gharaie, Andrea Newman-Rivera, Lois J. Arend, Sanjeev Noel, Barbara S. Slusher & Hamid Rabb	Department of Medicine, School of Medicine	Assistant Professor
52	Mohsen Zakeri	Movi: a fast and cache-efficient full-text pangenome index	Mohsen Zakeri, Nathaniel K Brown, Omar Y Ahmed, Travis Gagie, Ben Langmead	Whiting School of Engineering	Fellow
53	Dheeksha Sudhakar	Therapeutic Potential of Hyaluronan and Proteoglycan Binding Link Protein 1 for Airway Epithelium in COPD	Bonnie Yeung-Luk*, Dheeksha Sudhakar*, Brianna Lee, Ethan Tieng, Ethan Sherman, Ethan Gale, Venkataramana Sidhaye  *These authors contributed equally to this work.	Department of Medicine, School of Medicine	Student
54	Monika Mani	Single-Hepatocyte HBV RNA Sequencing Reveals Intrahepatic and Intracellular Viral Diversity In HIV-HBV Co-Infected Individuals	Monika Mani, Hyon S Hwang, Richard K Sterling, Mark S Sulkowski, Ruy M Ribeiro, Chloe L Thio, Ashwin Balagopal	Department of Medicine, School of Medicine	Fellow
55	Bonnie Yeung-Luk	Loss of cofilin-1 in the airway epithelium of COPD causes mitochondrial dysfunction	Bonnie Yeung-Luk*, Ethan Gale*, Austin Niederkofler, Brianna Lee, Samuel Fontaine, Carter Swaby, Baishakhi Ghosh, Venkataramana Sidhaye  *These authors contributed equally to this work.	Department of Medicine, School of Medicine	Research Associate
56	Hongchao Shu	Digital twins, next era for intraoperative surgical guidance.	Hongchao Shu	Whiting School of Engineering	Student

57	Rebeca Oliveira	Investigating the effects of HGF and VEGF for improving angiogenesis in Peripheral Arterial Disease: a mechanistic computational model	Rebeca Hannah de M. Oliveira Brian H. Annex Aleksander S. Popel	Department of Medicine, School of Medicine	Student
58	Akshay Sanghi	Integrating epigenetic regulation with metabolic signaling in aggressive thyroid cancer	Akshay Sanghi, Tristan Chou, Si Wu, Lihua Jiang, Warren Reynolds, Lisa Orloff, Howard Y. Chang, Joshua J. Gruber,, Maya Kasowski, Michael Snyder	Department of Medicine, School of Medicine	Resident
59	Yaa Adoma Kwapong	Association of Pre-pregnancy Cardiometabolic Health with Hypertensive Disorders of Pregnancy: Insights from the National Vital Statistics System 2016-2019	Yaa A. Kwapong, Oluwalonimi Adebowale, Theresa Boyer, Kevin Sun, S, Michelle Ogunwole, Allison G. Hays, Roger S. Blumenthal, Erin D. Michos, Arthur (Jason) Vaught, Chiadi Ndumele, Elizabeth Selvin, Josef Coresh, Anum Minhas	Department of Medicine, School of Medicine	Research Associate
60	Eduardo Gomez-Banuelos	Uncoupling interferons and the interferon signature explain clinical and transcriptional subsets in SLE	Eduardo Gómez-Bañuelos, Daniel W. Goldman, Victoria Andrade, Erika Darrah, Michelle Petri, Felipe Andrade	Department of Medicine, School of Medicine	Instructor
61	Fuhan Yang	Increased Sialic Acid Induced by Allergens and Its Potential Regulatory Mechanisms	Fuhan Yang, Victoria Chhang, Rongjun Wan, Shaobing Xie, Peisong Gao	Department of Medicine, School of Medicine	Student
62	Admira Parveen	PKG phosphorylation of CHIP protects ovariectomized females from myocardial infarction	Admira Parveen Desirae M. McKoy Parisha Garg Mark Ranek	Department of Medicine, School of Medicine	Resident

63	Anjira Ambade	Upregulated COL18A1/Endostatin Levels Associates with Right Ventricular Fibrosis and Remodeling in Pulmonary Hypertension in Rats	Anjira S. Ambade, Catherine E. Simpson, Paul M. Hassoun, Rachel L. Damico	Department of Medicine, School of Medicine	Fellow
64	Chigolum Oyeka	Cardiovascular Risk Profile Among Reproductive-Aged Women in the United States: The Behavioral Risk Factor Surveillance System (BRFSS, 2015-2020)	*Ellen Boakye, *Chigolum Oyeka, Faith Elise Metlock, Sadiya S. Khan, Mamas A. Mamas, Amanda M. Perak, Pamela S. Douglas, Michael C. Honigberg MD, Khurram Nasir, Michael J. Blaha, Garima Sharma *Drs Boakye and Oyeka are co-first authors.	Department of Medicine, School of Medicine	Fellow
65	Joshua Popp	Dynamic genetic regulation across cellular differentiation in heterogeneous differentiating cultures	Joshua Popp, Katherine Rhodes, Radhika Jangi, Merlin Li, Alexis Battle, Yoav Gilad	Whiting School of Engineering	Student
66	Zachary Kassir	A HISTORY OF CERVICAL AND LUMBAR PAIN IS A RISK FACTOR FOR CONSTANT ABDOMINAL PAIN IN PATIENTS WITH CHRONIC PANCREATITIS	Zachary Kassir, Zahra Yousefli, Mahya Faghih, Aida Metri, Lara Cheesman, Venkata S. Akshintala, Elham Afghani, Vikesh K. Singh	Department of Medicine, School of Medicine	Resident
67	Shaobing Xie	SPRR2A Contributes to the Recurrent Mechanisms of Chronic Rhinosinusitis with Nasal Polyps through Modulating Nasal epithelial EMT	Shaobing Xie, Yiyuan Liu, Maolan Wu, Fuhan Yang, Peisong Gao	Department of Medicine, School of Medicine	Fellow
68	Lauren E. Berninger DO, MBE	Investigating the Current State of Clinical Ethics Training in Hospice and Palliative Medicine Fellowship Programs	Lauren E. Berninger; Danielle J. Doberman	Department of Medicine, School of Medicine	Assistant Professor

69	Shohei Takaoka	Disrupted post-transcriptional regulation of gene expression as a hallmark of severe obesity	Shohei Takaoka Marcos Emmanuel Jaso-Vera Xiangbo Ruan	Department of Medicine, School of Medicine	Research Associate
70	Alli Abolarin	Serine Depletion Potentiates Venetoclax Efficacy in Acute Myeloid Leukemia.	Alli Abolarin	Whiting School of Engineering	Student
71	Corey Simmerer	In-vivo fundus imaging and autorefraction with a computational lightfield ophthalmoscope	Corey Simmerer, Nicholas Durr	Department of Medicine, School of Medicine	Student
72	Shannon Niedermeyer	Apoptosis Resistance in Pulmonary Arterial Smooth muscle cells (PASMCS)	Shannon Niedermeyer, Xin Yun, Samuel Murray, Manuella Ribas Andrade, Haiyang Jiang, Todd Kolb, Karthik Suresh, Mahendra Damarla, Larissa Shimoda	Department of Medicine, School of Medicine	Fellow
73	Elizabeth Bird	Fentanyl and xylazine concentrations in urine predict detection times in clinical trial participants	H. Elizabeth Bird, William Clarke, Craig Hendrix, Melanie Baime, Salome Hailu, Rachel Burns, Kelly Dunn, Andrew Huhn	Department of Medicine, School of Medicine	Fellow
74	William Garneau	Quality of mpox evaluation by clinical site: Infectious disease clinics provide more comprehensive care than other clinical sites	William M. Garneau MD MPH <sup>†</sup> , Joyce L. Jones MD MS <sup>†</sup> , Gabriella M. Dashler BS, Nathan Kwon BS, Matthew M. Hamill MBChB PhD, Elizabeth A. Gilliams MD MSc, Jeanne C. Keruly MS CRNP, Eili Y. Klein PhD MA, Bhakti Hansoti MBChB PhD MPH, Kelly A. Gebo MD MPH	Department of Medicine, School of Medicine	Assistant Professor

75	Michael Bene	CaMKII hyperactivation in skeletal muscle: a potential driver of sarcopenia?	Michael R. Bene, William A. Fountain, Jeremy D. Walston, Tae H. Chung, and Qinchuan Wang	Department of Medicine, School of Medicine	Fellow
76	Maolan Wu	Clara Cell RhoA Promotes Cockroach Allergen-Induced Airway Inflammation through Sprr2a-Mediated Epithelial Barrier Function	Maolan Wu, Wei Tu, Baishakhi Ghosh, Jennifer Lin, Vineeta Guntupalli, Shaobing Xie, Venkataramana K. Sidhaye, Martin P. Alphonse, Peisong Gao	Department of Medicine, School of Medicine	Student
77	Nzinga Mack	Mechanistic Computational Modeling of IL-2 and IL-2 Immunocytokines	Nzinga Mack Feilim Mac Gabhann Christy Ray Wangui Mbuguiro Elissa Leonard Derek Van Dyke Jamie Spangler	Whiting School of Engineering	Fellow
78	Rebecca Zhang	Deficiency of Nrf2 alters cell differentiation and lung function	Bonnie Yeung-Luk*, Rebecca Zhang*, Nisha Upadya, Dheeksha Sudhakar, Ethan Tieng, Ethan Sherman, Shyam Biswal, Venkataramana Sidhaye *These authors contributed equally to this work.	Department of Medicine, School of Medicine	Student

79	Lolita Nidadavolu	Identifying frailty sub-populations based on cell-free DNA tissue of origin	Lolita S. Nidadavolu, David W. Sosnowski, Nikita Sivakumar, Alessandra Merino Gomez, Megan T. Lynch, Yuqiong Wu, Thomas Laskow, Taylor Bopp, Nicholas Milcik, Anne Le, Cissy Zhang, Pratik Khare, Andrea Zammit, Francine Grodstein, Jeremy D. Walston, David Bennett, Rasika A. Mathias, Jude Phillip, Brion S. Maher, Esther Oh, Peter M. Abadir	Department of Medicine, School of Medicine	Assistant Professor
80	Sampath Rapuri	Development of a Machine Learning Model for Pulmonary Embolism Prediction in Intensive Care	Sampath Rapuri, Kirby Gong, Robert D. Stevens	Whiting School of Engineering	Student
81	Chongyu Qu	AbdomenAtlas-8K: Annotating 8,000 CT Volumes for Multi-Organ Segmentation in Three Weeks	Chongyu Qu, Tiezheng Zhang, Hualin Qiao, Jie Liu, Yucheng Tang, Alan L. Yuille, Zongwei Zhou	Whiting School of Engineering	Staff
82	Cristian Ciobanu	CFTR Based Therapy for Autosomal Dominant Polycystic Kidney Disease	Cristian Ciobanu, Liudmila Cebotaru	Department of Medicine, School of Medicine	Fellow
83	Reyhan Westbrook	Dual Treatment with Kynurenine Pathway Inhibitors and NAD+ Precursors Synergistically Extends Lifespan in Drosophila	Reyhan Westbrook, Mariann M. Gabrawy, Austin King, Nick Khosravian, Neeraj Ochaney, Tagide DeCarvalho, Qinchuan Wang, Yuqiong Yu, Qiao Huang, Adam Said, Michael Abadir, Cissy Zhang, Pratik Khare, Jennifer E. Fairman, Anne Le, Ginger L. Milne Fernando J. Vonhoff, Jeremy D. Walston, Peter M. Abadir	Department of Medicine, School of Medicine	Assistant Professor

84	Will Fountain	GDF-15 and reduced physical function following total knee replacement: a study of physical resilience and aging	William A Fountain, Nicholas Milcik, Nicholas Schmedding, Frederick Sieber, Julius Oni, Ravi Varadhan, Karen Bandeen-Roche, Jeremy Walston	Department of Medicine, School of Medicine	Fellow
85	Jitong Cai	Structure-Constrained Recoding (SCRecoding) Performs Synonymous Codon Substitution While Preserves Specific RNA Secondary Structures	Jitong Cai, Joel Bader	Whiting School of Engineering	Student
86	Meredith Case	Association of Guideline Alignment and Medication Concordance with Medication Usage in COPD	Meredith A. Case, Eric P. Boorman, Michael T. Vest, Nadia N. Hansel, Nirupama Putcha, and Michelle N. Eakin	Department of Medicine, School of Medicine	Fellow
87	Matthew Meyers	Concurrent Orthostatic Hypotension and REM Sleep Behavior Disorder are associated with increased motor and non-motor symptoms in early-stage Parkinson's disease.	Matthew Meyers, Jeannie-Marie Leoutsakos, Kristi Bigos, Gwenn Smith	Department of Medicine, School of Medicine	Fellow
88	Monika Kizerwetter	T cell functional phenotyping on a single cell scale using hydrogel microparticles	Monika Kizerwetter, Doyeon Koo, Dino Di Carlo, Jamie Spangler	Whiting School of Engineering	Student
89	Jason Chang	Optimizing neutralizing antibodies and therapeutic immunization in HIV-1	Jason Chang and Feilim Mac Gabhann	Whiting School of Engineering	Student
90	Urveel Shah	Rethinking resident wellbeing: using a virtual platform for self-reflection, decreasing barriers to intervention, and crisis prevention	Urveel Shah, Eric Bai, Andrea Silvas, Talia Robledo-Gil, Katherine Shaw	Department of Medicine, School of Medicine	Resident



91	Matthew Robinson	Prediction of individual unfavorable tuberculosis treatment outcomes in Brazil and India leveraging machine learning	<p>Sonya Krishnan, Gustavo Amorim, Nikhil Gupte, Akshay Gupte, Mandar Paradkar, Mrunmayi Naik, Sanjay Gaikwad, Moreno M.S. Rodrigues, Artur T. L. Queiroz, Marina Figueiredo, Vidya Mave, Valeria C. Rolla, Afrânio Kritski, Marcelo Cordeiro-Santos, Sonali Sarkar, Senbagavalli Prakash Babu, Vijay Vishwanathan, Hardy Kornfeld, Padma Priyadarshini, Elizabeth Hanna Luke, Shri Vijay Bala Yogendra Shiva Kumar, Balamugesh Thangakunam, Devasahayam Jesudas Christopher, Padmini Salgame, Charles Robert Horsburgh, Jerrold Ellner, Amita Gupta, Timothy R. Sterling, Bruno B. Andrade, and Matthew Robinson for RePORT Brazil and RePORT India</p>	Department of Medicine, School of Medicine	Assistant Professor
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92	David Polhemus	Vericiguat Rescues Cyclic Guanosine Monophosphate Production in Hyperglycemic Human Aortic Vascular Smooth Muscle Cells and Augments Vasorelaxation in Aortic Rings Exposed to Hyperglycemia.	David Polhemus MD PhD, Diego Almodiel, Nuria Amat-Codina, Tarek Harb MD, Efthymios Ziogos MD, Lakshmi Santhanam PhD, Gary Gerstenblith MD, Thorsten M. Leucker MD PhD  Division of Cardiology, Johns Hopkins Hospital, Baltimore, MD	Department of Medicine, School of Medicine	Fellow
93	Katia Chiampas	Continuous Glucose Monitor (CGM) Integration into Primary Care Clinics	Katia Chiampas Alyssa Zadel Katrina Maktaz Micah Eimer John Keller Kathy O’Gara Emily Szmuiłowicz	Department of Medicine, School of Medicine	Student
94	Matthew Perrone	Prioritizing drug targets with response functions for biological networks	Matthew C. Perrone, Michael G. Lerner, Matthew Dunworth, Andrew J. Ewald, Joel S. Bader	Whiting School of Engineering	Student
95	Zongwei Zhou	AbdomenAtlas: A Large-Scale, Detailed-Annotated, and Multi-Domain Abdominal Dataset for Efficient Transfer Learning and Open Algorithmic Benchmarking	Wenxuan Li, Alan Yuille, Zongwei Zhou	Whiting School of Engineering	Student
96	Ataes Aggarwal	A Deep Learning Approach to Compute Intracranial Pressure from Extracranial Physiologic Waveforms Routinely Recorded in the Intensive Care Unit	Shiker S. Nair, Alina Guo, Joseph Boen BS, Ataes Aggarwal, Ojas Chahal, Arushi Tandon, Meer Patel, Sreenidhi Sankararaman, and Robert D. Stevens	Whiting School of Engineering	Student

97	Paula Reventun	CD36 regulates Factor VIII secretion from liver endothelial cells	Paula Reventun, Pablo Toledano-Sanz , Nunzio Alcharani , Maria Viskadourou , Alanna C. Morrison , Maria Sabater-Lleal , Alisa S. Wolberg , Paul S. de Vries , Nicholas L. Smith , William O. Osburn , Marios Arvanitis , Charles J. Lowenstein	Department of Medicine, School of Medicine	Fellow
98	Ling Li	A sustained release antifibrotic prevents stricture formation in preclinical models of Crohn's and other GI tract strictures	Ling Li, Rachel L Shapiro, Henry T. Hsueh, Aditya Josyula, Steven N. Steinway, Kevan J. Salimian, Laura M. Ensign, Florin M. Selaru	Department of Medicine, School of Medicine	Research Associate
99	Takayuki Suzuki	Label Free Microfluidic Purification Strategy of Retinal Ganglion Cells	Takayuki Suzuki, Cynthia Berlinicke, Donald J. Zack, Soojung Claire Hur	Whiting School of Engineering	Student
100	Mary Foltz	Impact of Lumbar Laminectomy & Laminotomy on Spinal Biomechanics: A Systematic Review	Mary H. Foltz, Alexandra H. Seidenstein, Andrew H. Kim, Gabriel Nazario-Ferrer, Craig Almeida, Amit Jain, Jill Middendorf	Whiting School of Engineering	Fellow
101	Lai Wei	Multi-Dimensional Laser Induced Microfluidic Valve System Based Combinational Antibiotics Susceptibility Screening and Sub-5 Minute Pathogen Identification	Lai Wei, Fangchi Shao, Sixuan Li, Sayuni Dharmasena, Arman Mirmiran, Kuangwen Hsieh, Jeff Tza-Huei Wang	Whiting School of Engineering	Student
102	Sreenivas Raguraman	From Fiery Furnace to Bone Fixer: Unveiling the Processing-Structure-Property Relationships in Magnesium Alloys for Enhanced Biodegradable Implant Design	Sreenivas Raguraman, Maitreyee Sharma Priyadharshini, Tram Nguyen, Ryan McGovern, Andrew Kim, Adam Griebel, Paulette Clancy, Timothy Weihs	Whiting School of Engineering	Student

103	Yoseph Dance	Bioengineered platforms to identify links between chronological age and T cell motility and morphology	Yoseph W. Dance Zhuoxu Ge Chanhong Min Annaka Saffron Charles Ezenwanne Nicholas Milcik Nicolas Macaluso Pratik Kamat Kendall Pyndell Jeremy D. Walston Sean X. Sun Jude M. Phillip	Whiting School of Engineering	Fellow
104	Marisa Morakis	In vivo sickle cell blood rheology in humans	Marisa M. Morakis, Luojie Huang, Gregory N. McKay, Nicholas J. Durr	Whiting School of Engineering	Student
105	Siyuan Cyan Huang	Self-Supervised Learning of Whole and Component-Based Semantic Representations for Person Re-Identification	Siyuan Huang, Yifan Zhou, Ram Prabhakar, Rama Chellappa, Chun Pong Lau	Whiting School of Engineering	Student
106	Andrew Kim	Understanding the impact of Thermo-mechanical Processing on the Mechanical Properties and Corrosive Behavior of Biodegradable Magnesium Alloys	Andrew Kim, Sreenivas Raguraman, Karthik Muthukkumar	Whiting School of Engineering	Student
107	Hyun Jun Jung	Deciphering molecular signatures of epithelial cell state for the progression of cystogenesis in ADPKD using single-cell analysis	Hyun Jun Jung Patricia Outeda Owen M. Woodward Terry Watnick Paul A. Welling	Department of Medicine, School of Medicine	Instructor
108	Vineet Shenoy	Unrolled IPPG: Video Heart Rate Estimation via Unrolling Proximal Gradient Descent	Shenoy, Vineet; Marks, Tim K.; Mansour, Hassan; Lohit, Suhas	Whiting School of Engineering	Student

109	Mark Hughes	Teaching the History of Eugenics to Stimulate Curiosity and Reflection about the Role of Physicians in Society	Shatika Bhat, Mark Hughes	Department of Medicine, School of Medicine	Assistant Professor
110	Michael McCarthy	The impact of a course on the history of eugenics on trainee professional identity formation	Michael Eamonn McCarthy, Mark Thomas Hughes	Department of Medicine, School of Medicine	Resident
111	Aida Metri	Large Duct Chronic Pancreatitis and Exocrine Insufficiency Predict Increased Fibrosis in Patients undergoing Total Pancreatectomy with Islet Autotransplantation (TPIAT)	Metri, Aida A; Faghih, Mahya; Thompson, Elizabeth; Noë, Michael; Mannan, Rifat; Kalyani, Rita; Afghani, Elham; Akshintala, Venkata; Yousefli, Zahra; Warren, Daniel; Desai, Niraj M; Sun, Zhaoli; Walsh, Christi; Makary, Martin A; Hruban, Ralph; He, Jin; Singh, Vikesh	Department of Medicine, School of Medicine	Fellow
112	Jodi Segal	Promoting Embedded Research in a Learning Health System (PERLHS)	Jodi Segal, MD, MPH and Jill Marsteller, PhD	DOM	Professor
113	Wencheng Zhong	High Dimensional Consensus spectra for Single-Compound Forensic Drug Discrimination	Rowy(Wencheng) Zhong; Anthony Kearsley	Whiting School of Engineering	Research Associate
114	Ashkan Abdollahi	Differential Stroke Volume Between Left and Right Ventricles As Predictor of Clinical Outcomes: The MESA Study	Ashkan Abdollahi, Yoko Kato, Hooman Bakhshi, Vinithra Varadarajan, Omar Chehab, Ralph Zeitoun, Mohammad R. Ostovaneh, Colin O. Wu, Alain Bertoni, Sanjiv J. Shah, Bharath Ambale-Venkatesh, David A. Bluemke, João A. C. Lima	Department of Medicine, School of Medicine	Fellow

115	Bailey West	HMGA1 modulates transcriptional networks involved in plasticity in KMT2A-r acute myeloid leukemia	Bailey E. West, Jung-Hyun Kim, Audrey-Ann Supreme, Iliana Herrera, Zanshé Thompson, Li Luo, Faiza Shaik, Joseph Kim, Hyunsung Woo, Soheil Meshinchi, Rhonda E. Ries, Linda M. S. Resar	Department of Medicine, School of Medicine	Student
116	Yehuda Eidensohn	Measurement practices and clinical management of Lipoprotein(a) levels at Johns Hopkins Hospital from 2017 to 2021: A retrospective study	Yehuda Eidensohn, Anjali Bhatla, Jie Ding, Seth S. Martin, Francoise A. Marvel	Department of Medicine, School of Medicine	Resident
117	Carl Harris	Surgical risk prediction using an explainable deep learning approach applied to pre-operative 12-lead electrocardiograms	Carl Harris, Anway Pimpalkar, Ataes Aggarwal, Xiaojian Chen, Patrick Yang, Wanting Shan, Joseph Greenstein, Casey Overby Taylor, Robert Stevens	Department of Medicine, School of Medicine	Student
118	Elilizabeth Luczak	Cell type specific CaMKII activation patterns revealed by CaMKAR, a bioactivity reporter deployable in living cells	Alex Severino, Oscar E Reyes Gaido, Bian Liu, Erick O Hernandez-Ochoa, Richard L Hujanir, Elizabeth Luczak	Department of Medicine, School of Medicine	Assistant Professor
119	Patrick Myers	Using dynamic network analysis to improve the diagnostic reliability of scalp EEG for epilepsy	Patrick Myers, Kristin Gunnarsdottir, Adam Li, Vlad Razskazovskiy, Dale Wyeth, Edmund Wyeth, Alana Chandler, Kareem Zaghoul, Sara Inati, Jennifer Hopp, Babitha Haridas, Jorge Gonzalez-Martinez, Anto Bagic, Joon-yi Kang, Michael Sperling, Niravkumar Barot, Sridevi Sarma, Khalil Husari	Whiting School of Engineering	Student

120	Yutong (Irina) Zhu	Multi-organ mapping of age-related changes to the female mouse reproductive system at cellular resolution	Yutong Zhu, Mia Grahn, Winni Zheng, Aanya Kheterpal, Ashleigh Crawford, Gretchen Alicea, Yu Shen, Andre Forjaz, Nick Milcik, Jeremy Walston, Denis Wirtz, Ashley Kiemen	Whiting School of Engineering	Student
121	Ryan Chou	Correcting for Rater Effects in Operating Room Surgical Skills Assessment	Ryan Chou, Hajira Naz, Kofi D. O. Boahene, Jessica H. Maxwell, John R. Wanamaker, Patrick J. Byrne, Ira D. Papel, Theda C. Kontis, Gregory D. Hager, Lisa E. Ishii, Sonya Malekzadeh, S. Swaroop Vedula, Masaru Ishii	Whiting School of Engineering	Student
122	Xinrui Zou	Enhanced Medical Visualization in Augmented Reality	Xinrui Zou	Whiting School of Engineering	Student
123	Jinwei Zhang	One model to segment multiple sclerosis lesions with high accuracy, generalization, and versatility: multi-center validation of single-center trained models	Jinwei Zhang, Lianrui Zuo, Blake E. Dewey, Samuel W. Remedios, Yihao Liu, Savannah Hays, Dzung L. Pham, Aaron Carass, and Jerry L. Prince	Whiting School of Engineering	Fellow
124	Olurotimi Mesubi	Prescribing of Evidence-based Medications for the Prevention of Adverse Cardiovascular Events and Progression of Chronic Kidney Disease Among Patients with Diabetes	Samantha Pitts, Lisa Yanek, Justin Wu, Alisa Mayas, Erin Michos, Nes Mathioudakis, Nisa Maruthur	Department of Medicine, School of Medicine	Assistant Professor

125	Derosh George	Microinstrumentation for organoid intelligence	Derosh George*, Chris Acha*, Lauren Diaz, Dowlette-Mary Alam El Din, Ashlee Liao, Jinxun Chen, Itzy E. Morales Pantoja, Albert Doan, Dian Li, Eva Loftus, Gandhali Mangalvedhekar, Sai Rayasam, Lena Smirnova, Erik C. Johnson, David H. Gracias	Whiting School of Engineering	Staff
126	Lyla Atta	Gene count normalization in single-cell imaging-based spatially resolved transcriptomics	Lyla Atta, Kalen Clifton, Manjari Anant, Jean Fan	Whiting School of Engineering	Student
127	Zheyuan Zhang	ArthroNeRF: Advancing Intraoperative Scene Reconstruction and View Enhancement in Arthroscopic Surgeries Using Neural Radiance Fields	Zheyuan Zhang	Whiting School of Engineering	Student
128	Mingxu Liu	Enhancing Surgical Precision and Visualization: The Role of AI in Computer-Integrated Surgery	Mingxu Liu	Whiting School of Engineering	Student
129	Yu Shen	3D Mapping of Human Pancreas for Studying Microanatomical Structures Influenced by Type 1 Diabetes at Cellular Resolution	Yu Shen Mia Grahn Won June (Kevin) Cho Bridgette Kim André Forjaz Casey Grubel Maria Beery Irina Kusmartseva Pei-Hsun Wu Mark Atkinson Denis Wirtz Ashley Kiemen	Whiting School of Engineering	Student



130	Farzin Ahmadi	Personalized Nutritional Guidance: Aligning Preferences with Nutritional Needs	Farzin Ahmadi Fardin Ganjkhanloo Kimia Ghobadi	Whiting School of Engineering	Student
131	Wenhao Gu	Vision-Based Mixed Reality Guidance for Accurate Navigation in Total Shoulder Arthroplasty	Wenhao Gu	Whiting School of Engineering	Student
132	Aamir Javaid	Glucagon-Like-Peptide-1 Receptor Agonist Social Media Posts - Content Grouping and Sentiment Analysis with Artificial Intelligence	Aamir Javaid, Sruthika Baviriseaty, Harshita Kukreja, Chang H Kim, Seth S Martin, Francoise A Marvel	Department of Medicine, School of Medicine	Resident
133	Alejandro Martin-Gomez	Perception, Extended Reality, and Their Transferability into Medical Environments	Alejandro Martin-Gomez	Whiting School of Engineering	Assistant Professor
134	Orian Stapleton	Optimizing Patient Oxygen Saturation Estimation with Patient Health Information and Skin Tone Quantification	Orian Stapleton, Sreenidhi Sankararaman, Chao Cheng Chaung, Yolanda Su, Esanika Mukherjee, Jay Luo	Department of Medicine, School of Medicine	Student
135	Roger D. Soberanis-Mukul	A brightness-aware method for cognitive load detection in tele-robotic surgery	Roger D. Soberanis-Mukul, Regine Büter, Rohit Shankar, Paola Ruiz Puentes, Ahmed Ghazi, Jie Ying Wu, Mathias Unberath	Whiting School of Engineering	Fellow
136	Amir Hossein Daraie	A Comprehensive Seizure Detection, Localization, and Classification Tool for Epilepsy Monitoring	Amir Hossein Daraie, Luis A Sanchez, Lynette Talley, Adam S Charles, Joon Yi Kang, Sridevi V Sarma	Department of Medicine, School of Medicine	Student
137	Jan Emily Mangulabnan	Vision-Based Navigation for Next Generation Endoscopic Sinus Surgery	Jan Emily Mangulabnan, Roger Soberanis, Timo Teufel, Manish Sahu, Jose L. Porras, S. Swaroop Vedula, Masaru Ishii, Gregory Hager, Russell H. Taylor, Mathias Unberath	Whiting School of Engineering	Student

138	Samantha Pitts	Identifying and classifying medications for hypertension in the electronic health record	Amanda Chuk, John Scott, Ching-Huan Wang, Michael Chiu, Lisa Yanek, Jodi Segal, Samantha Pitts	Department of Medicine, School of Medicine	Assistant Professor
139	Samantha Pitts	Prescribing of Evidence-based Medications for the Prevention of Adverse Cardiovascular Events and Progression of Chronic Kidney Disease Among Patients with Diabetes	Samantha Pitts, Lisa Yanek, Justin Wu, Alisa Mayas, Erin Michos, Nes Mathioudakis, Nisa Maruthur	Department of Medicine, School of Medicine	Assistant Professor
140	Francis A. M. Manno	The transcriptomic cortical alterations in profound hearing loss	Xuan Wang, Itzamná Sánchez-Moncada, Bo Ao, J. Tilak Ratnanather, Francis A. M. Manno	Whiting School of Engineering	Fellow
141	Daniel Ames	Programming soft matter voxel interface properties in extrusion 3D printing	Daniel C. Ames, Sarah Propst, Aadarsh Shah, Jochen Mueller	Whiting School of Engineering	Student
142	Nanthini Narayanan	Effect of implicit bias on performance of unbiased models for video-based surgical skill assessment	Nanthini Narayanan, Divyasree Sasi Kumar, S. Swaroop Vedula, Shameema Sikder, Vishal Patel	Whiting School of Engineering	Student
143	Nikita Sivakumar	Data-driven simulation quantifies how lymphocyte motility drives immune interactions	Nikita Sivakumar, Chanhong Min, Kibaek Choe, Wendy Beguelin, Feilim Mac Gabhann, Jude M. Phillip	Department of Medicine, School of Medicine	Student
144	Shunyao Lei	m6A mRNA modifications regulate embryonic heart maturation	Shunyao Lei, Harshi Gangrade, Sheetal Bajpayi, Myo Htet, Sean Murphy, Edwin Yoo, Navid Koleni, Emmanouil Tampakakis	Whiting School of Engineering	Student

145	Xinran An	Engineering Antibody–Invertase Fusion Proteins for Enhanced Detection of Diseases Targeted Antibodies Using Commercial Glucometers	Xinran An, Elissa Leonard, Elyse Ornelas-Gatdula, Harrison Khoo, Claire Hur, Netz Arroyo, Jamie Spangler	Whiting School of Engineering	Student
146	Shanshan Song	Prescription Switches in Patients with a Positive Family History of a Documented Medical Condition	Shanshan Song; Casey Overby Taylor	Department of Medicine, School of Medicine	Student
147	Fardin Ganjkanloo	Automated Fall Risk Assessment and Prevention Tool (FallPRO), Improving Prediction and Efficiency	Fardin Ganjkanloo Erik Hoyer Daniel Young Anton Dahbura Kimia Ghobadi	Whiting School of Engineering	Student
148	Michelle Nguyen	Genetic medicine practices in primary care settings at Johns Hopkins Medicine	Michelle Nguyen, Carolyn Applegate, Lisa Renee Yanek, Samantha Irene Pitts, Cynthia Anne James, Ada Hamosh, Casey Overby Taylor	Department of Medicine, School of Medicine	Student
149	Catherine Washburn	Electronic feedback on clinical reasoning for hospitalists: a pilot study	Susrutha Kotwal, Karthik Meiyappan Udayappan, Nikhil Kutheala, Catherine Washburn, Caitlin Morga, Suzanne Grieb, Scott Wright, Gurpreet Dhaliwal	Department of Medicine, School of Medicine	Assistant Professor
150	Rafael dos Santos Peixoto	Characterizing cell-type spatial relationships across length scales in spatially resolved omics data	Rafael dos Santos Peixoto, Brendan F. Miller, Maigan A. Brusko, Lyla Atta, Manjari Anant, Mark A. Atkinson, Todd M. Brusko, Clive H. Wasserfall, Jean Fan	Department of Medicine, School of Medicine	Student

151	Camryn Byrum	Modeling Magnesium: Optimizing Implants for Superior Bone Fracture Healing	Rida Chowdhury, Camryn Bryum, Tunde Ayodeji, Sreenivas Raguraman, Timothy Weihs	Whiting School of Engineering	Student
152	Tara Fallah Rastegar	Investigating immunologic mechanisms for the association between IBM and RA	Tara Fallah Rastegar, Hong Wang, Brit Adler, Jemima Albayda, Julie Paik, Christopher Mecoli, Eduardo Gomez Banuelos, Andrew Mammen, Tom Lloyd, Lisa Christopher, Erika Darrah, Eleni Tiniakou	Department of Medicine, School of Medicine	Research Associate
153	Angela Taylor	Autism Recovery using the Specific Carbohydrate Diet: Literature Review and Case Report	Angela Taylor	Whiting School of Engineering	Instructor
154	Jeongyun Kim	Rapid Sensing System for Personalized Treatment of Diabetic Retinopathy	Jeongyun Kim, Geonhui Lee, Aimee Arash-Ajayi and Sangmoo Jeong	Whiting School of Engineering	Student

155	Asma Rayani	VIRTUAL HEALTH COACHING IN A HOME-BASED CARDIAC REHABILITATION PROGRAM	Asma Rayani Mansi Nimbalkar Chang H. Kim, Mansi Nimbalkar Nino Isakadze Ali Kassamali Jooyoung Ryu Claire Zhang Zane MacFarlane Yumin Gao, ScM Jie Ding, PhD Ashley Broderick Alex Bush Jeanmarie Gallagher Preeti Benjamin Brittany Neigh Kerry J. Stewart Lena Mathews Erin Spaulding Seth S Martin, *Francoise A. Marvel (corresponding author)	Department of Medicine, School of Medicine	Student
156	Jana Lovell	B cell-mediated antigen presentation promotes adverse cardiac remodeling in chronic heart failure	Jana P. Lovell, Carolina Duque, Sylvie Rousseau, Aashik Bhalodia, Kevin Bermea, Charles D. Cohen, Marcelle Dina Zita, Luigi Adamo	Department of Medicine, School of Medicine	Fellow

157	Zhanping Ren	Simulated Microgravity Attenuates Myogenesis and Contractile Function of 3D Engineered Skeletal Muscle Tissues	Zhanping Ren, Eun Hyun Ahn, Minjae Do, Devin B. Mair, Amir Monemianesfahani, Peter H.U. Lee, and Deok-Ho Kim	Whiting School of Engineering	Student
158	Priya Umapathi	Sugars : O-GlcNAcylation, Ketones and the Cardiometabolic Substrate Switch	Gabriel-Lopez Cecetaite, Priya Umapathi	Department of Medicine, School of Medicine	Assistant Professor
159	Priya Umapathi	A Novel Mediator of Cardiac Hypertrophy and Heart Failure - Modulation of YAP via O-GlcNAcylation in the Heart	Priya Umapathi	Department of Medicine, School of Medicine	Assistant Professor
160	Nima Madanchi	Both Low and High Vitamin D Levels Increase Adverse Pregnancy Outcomes in Systemic Lupus Erythematosus	Nima Madanchi, Andrea Fava, Daniel W Goldman, Laurence S Magder, Michelle Petri	Department of Medicine, School of Medicine	Fellow
161	Qihui Li	Analysis of pancreatic cancer risk variants using long read sequencing	Qihui Li, Carolina Montano, Jessica Hosea, Luke Morina, Bohan Ni, Moira McCormick, Justin Paschall, Beth Marosy, Michelle Kokosinski, Jessica Gearhart, Brian Craig, Alan Scott, David Mohr, Michelle Mawhinney, David McKean, Nicholas Roberts, Zhanmo Ni, Alexis Battle, Kimberly Doheny, Winston Timp, Michael Schatz, Alison Klein	Whiting School of Engineering	Fellow
162	Xuyang Li	Understanding Impact of BRCA1/2 Testing on Healthcare Utilization and Clinical Outcome	Xuyang Li, Kevin Gorman, Ilya Shpitser, Carolyn Applegate, Casey Overby Taylor	Whiting School of Engineering	Student

163	Sue Min, Cho	Human-centered assurance in technology-assisted surgery	Sue Min Cho, Robert Grupp, Catalina Gomez, Iris Gupta, Mehran Armand, Greg Osgood, Russell Taylor, Mathias Unberath	Whiting School of Engineering	Student
164	Felix Parker	A prediction and optimization framework for improving hospital capacity management during demand surges	Felix Parker, Kimia Ghobadi	Whiting School of Engineering	Student
165	Md Ragib Shaharear	Lightweight Vision Transformer for Collision-Avoidance on Resource Constraint UGVs	Md Ragib Shaharear, Edward Humes, Tinoosh Mohsenin	Whiting School of Engineering	Student
166	Prasenjit Ghosh	Environmental tobacco smoke (ETS) exposure concentrations at different venues and regions of the world: a literature review	Prasenjit Ghosh, Fred Norton, Christopher Jenkins, Kirsten Kohler, Ana M. Rule	Whiting School of Engineering	Student
167	Taylor Bobrow	Design of a multicontrast laser endoscopy system for improving mucosal contrast	Taylor L. Bobrow, Suchapa Arayakarnkul, Saowanee Ngamruengphong, Nicholas J. Durr	Whiting School of Engineering	Fellow