

Curriculum vitae

Date Prepared: August 21, 2026
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Education

Year	Degree	Field of Study	Institution
1993-1995	B.S.	Science	Pennsylvania State University; University Park, Pennsylvania
1995-2003	M.D.	Medicine	Jefferson Medical College; Philadelphia, Pennsylvania
1997-2001	Ph.D.	Molecular Pharmacology Thesis Advisor: Scott A. Waldman, M.D., Ph.D.	Thomas Jefferson University; Philadelphia, Pennsylvania

Postdoctoral Training

Year(s)	Titles	Specialty/Discipline	Institution
2003-2008	Resident	Anatomic and Clinical Pathology	Hospital of the University of Pennsylvania; Philadelphia, Pennsylvania
2005	Chief Resident	Clinical Pathology	Hospital of the University of Pennsylvania; Philadelphia, Pennsylvania
2008-2009	Fellow	Gastrointestinal and Liver Pathology	Johns Hopkins Hospital; Baltimore, Maryland

Professional Development Training

Year(s)	Course or Program	Institution
2005	Corporation Finance (FNCE 213)	Wharton School; University of Pennsylvania
2005	Management (MGMT 397)	Wharton School; University of Pennsylvania
2005	Marketing (MKTG 401)	Wharton School; University of Pennsylvania
2020	Leadership Emerging in Academic Departments (LEAD)	UT Southwestern Medical Center

Faculty Academic Appointments

Year(s)	Academic Title	Department	Academic Institution
2009-2010	Assistant in Pathology	Pathology	Johns Hopkins University School of Medicine (Baltimore, MD)
2010-2016	Assistant Professor, Clinician-Educator Track	Pathology	UT Southwestern Medical Center (Dallas, TX)
2016-2022	Associate Professor, Clinician-Educator Track	Pathology	UT Southwestern Medical Center (Dallas, TX)

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2022-Present	Professor, Clinician-Educator Track	Pathology	UT Southwestern Medical Center (Dallas, TX)
2013-2016	Assistant Professor, Clinician-Educator Track	Eugene McDermott Center for Human Growth & Development	UT Southwestern Medical Center (Dallas, TX)
2016-2022	Associate Professor, Clinician-Educator Track	Eugene McDermott Center for Human Growth & Development	UT Southwestern Medical Center (Dallas, TX)
2022-Present	Professor, Clinician-Educator Track	Eugene McDermott Center for Human Growth & Development	UT Southwestern Medical Center (Dallas, TX)
2023-Present	Professorship	Robin M. Jacoby, Ph.D. Professorship in Biomedical Science	UT Southwestern Medical Center (Dallas, TX)

Appointments at Hospitals/Affiliated Institutions

<u>Past</u>			
Year(s)	Position Title	Department/Division	Institution
2009-2010	Staff Physician	Gastrointestinal and Liver Pathology	Johns Hopkins Hospital
<u>Current</u>			
Year(s)	Position Title	Department/Division	Institution
2010-Present	Director, Advanced Diagnostics Laboratory	Pathology	Children's Medical Center
2010-Present	Staff Physician	Pathology	Children's Medical Center
2010-Present	Staff Physician	Pathology	UT Southwestern Medical Center Associated Hospitals
2010-Present	Staff Physician	Pathology	Parkland Health and Hospital System
2024-Present	Chief, Division of Genomic and Molecular Pathology	Pathology	UT Southwestern Medical Center Associated Hospitals
2024-Present	Director, Molecular Diagnostics Laboratory	Pathology	UT Southwestern Medical Center Associated Hospitals

Other Professional Positions

Year(s)	Position Title	Institution
2003-2006	Consultant	Targeted Diagnostics & Therapeutics, Inc; West Chester, PA
2006	Consultant	Centocor Research & Development; Malvern, Pennsylvania
2012-2015	Scientific Advisory Board	Fujirebio, Inc.; Tokyo, Japan
2015-2017	Scientific Advisory Board	Targeted Diagnostics & Therapeutics, Inc; Exton, PA
2015-2022	Scientific Advisory Board	Miraca Holdings (HU Group); Tokyo, Japan
2015-2022	Advisory Board	Clinical OMICs: GEN Publication
2022-Present	Founder and Chief Laboratory Officer	OncoSeer Diagnostics, Inc; Dallas, TX

Current Licensure and Certification

Licensure

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Year(s)	State
2010-Present	Texas – Physician License (Texas Medical Board)

Board and Other Certification

Year(s)	Specialty	Certifying Organization
2006	Clinical Pathology	American Board of Pathology
2008	Anatomic Pathology	American Board of Pathology
2015	Clinical Informatics	American Board of Pathology
2016	Molecular Diagnostics	American Board of Clinical Chemistry

Honors and Awards

Year	Name of Honor/Award	Awarding Organization
1996	Summer Medical Research Program	National Cancer Institute
1997	Gibbon Scholar (MD/PhD) Program	Thomas Jefferson University
1999	Presidential Trainee Award	American Society for Clinical Pharmacology and Therapeutics
2000	William Potter Student Research Prize	Sigma Xi Research Society, Jefferson Medical College
2002	Dubbs Scholar Award for Graduate Research and Scholarship	Jefferson Medical College
2002	The Volunteer Faculty Research Award	Jefferson Medical College
2003	The Hyman Menduke Research Prize, Honorable Mention	Jefferson Medical College
2003	The Robert J. Mandle Memorial Graduation Award	Jefferson Medical College
2003	The Harold L. Stewart, M.D. '26 Prize in Pathology	Jefferson Medical College
2003	The Henry Keller Mohler Memorial Prize in Therapeutics	Jefferson Medical College
2003	The Alumni Thesis Award	Thomas Jefferson University
2005	Paul E. Strandjord Young Investigator Award	Academy of Clinical Laboratory Physicians and Scientists
2005	William Pepper Fellowship Award	Department of Pathology and Laboratory Medicine, University of Pennsylvania
2008	John H. Yardley Fellowship in Gastrointestinal Pathology	Department of Pathology, Johns Hopkins Hospital
2009	Excellence in Translational Research Award	11 th Annual Pathology Young Investigators' Day, Johns Hopkins University School of Medicine
2017	Outstanding Speaker Award	American Association of Clinical Chemistry
2020	Dean's Capstone Project Recognition Award	2020 Leadership Emerging in Academic Departments (LEAD) Program UT Southwestern
2023	Meyer Bodansky Memorial Lectureship	UT Medical Branch (Galveston, TX)

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2023	Medical Device / Diagnostics Category Winner	2023 UT Southwestern Innovation Days Pitch Competition (10/5/23)
2024	History Division Caraway-Meites Award	Association for Diagnostics and Laboratory Medicine
2025	Visiting Professor	Penn State Milton S. Hershey Medical Center (Hershey, PA)

Major Administrative/Leadership Positions

Year(s)	Position Title	Institution
2006-2008	Co-Director, Center for Biomedical Micro & Nanotechnologies	University of Pennsylvania School of Medicine
2024-Present	Chief, Division of Genomic and Molecular Pathology	UT Southwestern Medical Center

Committee Service

Year(s)	Name of Committee	Institution/Organization
<u>UTSW</u>		
2016-2019	Co-Director, Molecular Tumor Board	Harold C. Simmons Comprehensive Cancer Center
2017-Present	Co-Director, Biomarker Resource Core	Harold C. Simmons Comprehensive Cancer Center
2018-Present	Pathology Faculty Mentoring Committee	Department of Pathology
2022-Present	Faculty Compensation Equity Committee	UT Southwestern Medical School
2023-Present	Chair, Pathology Promotion and Tenure Committee	Department of Pathology

Hospital

2017-Present	Laboratory Utilization Committee	Children's Health Dallas
2020-2023	Children's Credentials Committee	Children's Health Dallas

National/International

2006-2017	United States Technical Advisory Group	International Standards Organization Technical Committee 229 (ISO/TC 229): Nanotechnologies
2015-2017	Chair, Working Group on Cancer Genomics	International Federation of Clinical Chemistry and Laboratory Medicine (IFCC)
2019-2022	Member, Pathology (CPT) Coding Caucus	American Medical Association CPT Editorial Panel

Professional Societies

Dates	Society Name, member
2004-Present	College of American Pathologists, Member and Fellow
	Committees
	Instrumentation Resource (2005-2012)
	Standards (2008-2011)
	Chemistry Resource (2013-2017)

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	Policy Roundtable (2020-2024)
2004-Present	American Association for Clinical Chemistry (AACC), Member and Fellow
	Committees
	AACC 2012 Annual Meeting Organizing (2011-2012)
	AACC Omics Consensus Conference (2012)
	Chair, 2013 AACC Oakridge Meeting Organizing Committee (2012-2013) Emerging Technologies for 21 st Century Clinical Diagnostics (Baltimore, MD)
	Chair, 2014 ECLD AACC Meeting Organizing Committee (2013-2014) Emerging Clinical and Laboratory Diagnostics: The Portable Lab
	Member, AACC Policy & External Affairs Core Committee (2016-2018)
	Chair, 2019 AACC Annual Meeting Organizing Committee (2017-2019)
	Alternate member from AACC, Pathology (CPT) Coding Caucus (PCC) (2018-2019)
	Member from AACC, Pathology (CPT) Coding Caucus (PCC) (2019-2022)
	ADLM 2026 Annual Meeting Organizing (2024-2026)
2011-Present	Association for Molecular Pathology (AMP), Member
	Informatics Nominating Committee (2021-2023)
2012-Present	American College of Medical Genomics (ACMG), Member and Affiliate Specialist
2015-Present	Healthcare Information and Management Systems Society (HIMSS), Member

Community Engagement

Year(s)	Role	Organization or institution
2010, 2011	Lecture, Careers in the health professions	Texas Academy of Mathematics and Science
2020	Lecture, COVID-19 clinical laboratory testing	Harvard Club of Dallas
2020	Webinar, Molecular tumor boards (5/22/20)	Advocate Link Connect; Research Advocacy Network
2021	Moderator, The second year of the COVID-19 pandemic: Variants and vaccines	Harvard Club of Dallas
2023	Lecture, Cancer Genetics: Precision Medicine and Cancer Prevention	UT Southwestern Science Cafe

Educational Activities

1. Direct Teaching

Date	Course Name, Rotation or Session Topic	Role	Number of Instruction hours	Primary Learner Audience (number)	Department or Organization
<u>Medical and Graduate School (UME) Course Instruction, Small Group Instruction, Clinical Supervision</u>					
2003-2008	Sophomore Pathology Course Small Group	Instructor	>10	>10	University of Pennsylvania

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2005-2006	Frontier in Medicine Lecture Introduction to thyroid function testing	Instructor	>10	>10	University of Pennsylvania
2009-2010	Sophomore Pathology Course Small Group	Instructor	>10	>10	Johns Hopkins University
2011-2015	Sophomore Pathology Course Small Group	Instructor	>10	>10	UT Southwestern
2015-2016	First Year Pathology Course Small Group	Instructor	>10	>10	UT Southwestern
2017-2023	Medical School Curriculum Lecture – Gastrointestinal System and Nutrition: Pathology of the small intestine and colon	Lecturer	1	>100	UT Southwestern
2017-2023	Medical School Curriculum Lecture – Gastrointestinal System and Nutrition: Pathology of oral cavity, esophagus and stomach	Lecturer	1	>100	UT Southwestern
2019-2020	Medical School Frontiers in Pediatric Oncology Genomics Interactive Course – TRIG curriculum (2/6/19, 2/6/20)	Lecturer/ Organizer	3	>5	UT Southwestern
2020-2025	Medical School Frontiers of Neoplasia: Introduction to genomics	Lecturer	3	>20	UT Southwestern
2020-2025	Pathology Small Group for Medical Students on Gastrointestinal Tract	Lecturer	2	>10	UT Southwestern
2022-2025	Medical School Frontiers in COACH (Conception, Obstetrics and Child Health): Introduction to Genomics (2/1/22; 2/1/24) Laboratory Consultations in Genomic Medicine (2/2/22) Direct-to-Consumer Genetic Tests and Criminal Surveillance (2/3/22) Genomic Privacy (2/2/23; 2/2/24)	Lecturer	4	>20	UT Southwestern
2024	Medical Genetics and Anatomy (Genetic Counseling): Genomics, Including Chromosomal Microarray (9/5/24)	Lecturer	1	6	UT Southwestern
<u>Graduate Medical Education (GME) Course Instruction, Small Group Instruction, Clinical Supervision</u>					
NONE					

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<u>Instructor in Continuing Medical Education (CME), Faculty Development, National Educational Symposia</u>					
2009	Ninth Annual Current Topics in Gastrointestinal and Liver Pathology Diagnosis, prognosis and prediction: Molecular assays in gastrointestinal surgical pathology	Lecturer	1	>100	Johns Hopkins Medicine
2010	Tenth Annual Current Topics in Gastrointestinal and Liver Pathology Updates in gastrointestinal pathology molecular assays	Lecturer	1	>100	Johns Hopkins Medicine
2011	Eleventh Annual Current Topics in Gastrointestinal and Liver Pathology Esoteric testing in GI pathology: Expensive...effective?	Lecturer	1	>100	Johns Hopkins Medicine
2013	Thirteenth Annual Current Topics in Gastrointestinal and Liver Pathology A trio of gastritides: Infectious, autoimmune and drug-induced	Lecturer	1	>100	Johns Hopkins Medicine
2014	Short Course on Validating Laboratory Developed Tests (LDTs): Practical Application Examples Molecular: Validating GCDH gene sequencing.	Lecturer	3	>100	American Association for Clinical Chemistry Annual Meeting
2014	Fourteenth Annual Current Topics in Gastrointestinal and Liver Pathology HER2 testing for gastroesophageal adenocarcinomas	Lecturer	1	>100	Johns Hopkins Medicine
2015	From In Vitro to In Vivo Diagnostics: Are We Moving into the Body with Diagnostics? Nanotechnology in the clinical laboratory: Standards and emerging regulatory issues	Lecturer	3	>100	American Association for Clinical Chemistry Annual Meeting
2015	Fifteenth Annual Current Topics in Gastrointestinal and Liver Pathology Genomic medicine for gastrointestinal malignancies	Lecturer	1	>100	Johns Hopkins Medicine

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2016	Short Course: The Genomic Testing Revolution: An Interactive Workshop With Case Examples Whole exome sequencing	Lecturer	3	>100	American Association for Clinical Chemistry Annual Meeting
2016	Sixteenth Annual Current Topics in Gastrointestinal and Liver Pathology Genomic test interpretation for the gastrointestinal surgical pathologist	Lecturer	1	>100	Johns Hopkins Medicine
2017	Is bigger always better? Pros and cons of targeted vs comprehensive genetic testing	Moderator	3	>100	American Association for Clinical Chemistry Annual Meeting
2017	The Genomic Testing Revolution: An Interactive Workshop With Case Examples Whole exome sequencing	Lecturer	3	>100	American Association for Clinical Chemistry Annual Meeting
2017	17th Annual Current Topics in Gastrointestinal and Liver Pathology Genomic test interpretation for the gastrointestinal surgical pathologist	Lecturer	1	>100	Johns Hopkins Medicine
2017	17th Annual Current Topics in Gastrointestinal and Liver Pathology Molecular pathology of colon cancer	Lecturer	1	>100	Johns Hopkins Medicine
2018	18th Annual Current Topics in Gastrointestinal and Liver Pathology Genomic case studies for the gastrointestinal surgical pathologist	Lecturer	1	>100	Johns Hopkins Medicine
2018	18th Annual Current Topics in Gastrointestinal and Liver Pathology Hot topics in gastrointestinal molecular pathology	Lecturer	1	>100	Johns Hopkins Medicine
2019	19th Annual Current Topics in Gastrointestinal and Liver Pathology Hot topics in gastrointestinal molecular pathology	Lecturer	1	>100	Johns Hopkins Medicine

2020	20 th Annual Current Topics in Gastrointestinal and Liver Pathology COVID-19 Clinical Laboratory Testing (8/29)	Lecturer	1	>100	Johns Hopkins Medicine
2021	Laboratory Consultations in Genomic Medicine: Case Based Learning Speaker and Moderator (9/27)	Lecturer	3	>100	American Association for Clinical Chemistry Annual Meeting
2021	21 st Annual Current Topics in Gastrointestinal and Liver Pathology Clinical applications of cell-free DNA in gastrointestinal malignancies (11/20)	Lecturer	1	>100	Johns Hopkins Medicine
2022	GIPS e-Learning Forum Eosinophilic esophagitis: Reporting subepithelial fibrosis (6/22)	Lecturer	1	>100	United States and Canadian Academy of Pathology
2022	22 nd Annual Current Topics in Gastrointestinal and Liver Pathology Updates in Molecular Diagnostics for Colorectal Cancer (10/8)	Lecturer	1	>100	Johns Hopkins Medicine
2023	Clinical Chemistry Journal, Hot Topics in Laboratory Medicine	Moderator	3	>100	American Association for Clinical Chemistry Annual Meeting
2023	23rd Annual Current Topics in Gastrointestinal and Liver Pathology Updates in Molecular Diagnostics for Colorectal Cancer (10/28)	Lecturer	1	>100	Johns Hopkins Medicine
2024	Clinical Chemistry Virtual Journal Club: Classification of Brain Tumors by Nanopore Sequencing of Cell-Free DNA from Cerebrospinal Fluid (2/28)	Moderator	1	>100	Association for Diagnostics and Laboratory Medicine
2024	SYCL Publishing Opportunities and Strategies for Early Career Laboratory Medicine Professionals (4/8)	Lecturer	1	>100	Association for Diagnostics and Laboratory Medicine
2024	24th Annual Current Topics in Gastrointestinal and Liver Pathology	Lecturer	1	>100	Johns Hopkins Medicine

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	Precision Medicine for Upper Gastrointestinal Malignancies (10/26)				
2025	Clinical Chemistry Virtual Journal Club: Integrative Assessment of Total and Intact HIV-1 Reservoir by a 5-Region Multiplexed Rainbow DNA Digital PCR Assay (2/6)	Moderator	1	>100	Association for Diagnostics and Laboratory Medicine
2025	Clinical Chemistry Virtual Journal Club: Determinants of Cardiac Myosin Binding Protein C in the General Population (5/6)	Moderator	1	>100	Association for Diagnostics and Laboratory Medicine
2025	25 th Annual Current Topics in Gastrointestinal & Liver Pathology Genomic Approaches to Colon Cancer	Lecturer	1	>100	Johns Hopkins Medicine

2. Curriculum Development

NONE

3. Mentoring and Advising

Date	Mentee Name	Mentee Level/ Program and Institution	Role	Mentee Outcomes, Current Position
2014	Matthew Hiemenz, MD Project: Pathology licensure Publication: Am J Surg Pathol 2014;38:e1-4.	Pathology Resident UT Southwestern	Mentor/ Collaborator	Foundation Medicine, MA
2014	Jason Wang, MD Project: Diagnostic yield of genomic epilepsy tests Publication: JAMA Neurology 2014;71:650-1. Award: Harry B. Neustein Award at the Society for Pediatric Pathology	Pediatric Pathology Fellow UT Southwestern	Mentor/ Collaborator	Cook Children's, TX
2014	Zhen Yan, MD, PhD Project: Clinical significance of CMV immunohistochemistry Publication: Int J Surg Pathol 2014;22:492-8.	Pathology Resident UT Southwestern		Diagnostic Pathology Medical Group, CA
2014	Midhat Farooqi, MD, PhD Project: Clinical Genomic Testing Publications: J Mol Diagn 2016;18:572-9; Clin Chem 2016;62:1032-4; J Pediatr 2020;S0022-3476:30348-6.	Pathology Resident UT Southwestern		University of Missouri-Kansas City School of Medicine; University of Kansas School of Medicine, MO

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2016	Maryam Pezhouh, MD Project: Rectal Paneth cells Publication: Am J Surg Pathol 2016;40:968-71.	Pathology Resident UT Southwestern		UC San Diego
2018- 2020	Jeffrey SoRelle, MD Projects: Genomics/Molecular Diagnostics Publications: JAMA Pediatr 2018;e182302; JAMA Netw Open 2020;3:e203812; J Appl Lab Med 2020;jfaa089	Pathology Resident UT Southwestern		UT Southwestern, TX
2019	David Metter, MD Project: Pathology workforce Publication: JAMA Netw Open. 2019 May 3;2(5):e194337	Pediatric Pathology Fellow UT Southwestern		Memorial Hospital of Tampa, FL
2019- 2021	Ozlem Kulak, MD, PhD Projects: Smart Glasses, Gastrointestinal Pathology Publication: Arch Pathol Lab Med. 2021;145:457-460	Pathology Resident UT Southwestern		Thomas Jefferson University, PA
2020- 2021	Simone Arvisais-Anhalt, MD Project: Pathology workforce Publication: Am J Clin Pathol. 2021;155:674-679	Pathology Resident UT Southwestern		UC San Francisco, CA

4. Learner Assessment Activities or Tool Development

NONE

5. Educational Administration and Leadership

NONE

Grant Review Activities

Year(s)	Name of Review Committee	Organization
2014	Special Emphasis Panel; Omnibus SEP-7 (2014/10 Council ZCA RTRB-8 01 S)	National Cancer Institute

Editorial Activities

Year(s)	Journal Name
<u>Editor/Associate Editor</u>	
2015-2022	Clinical Chemistry, Associate Editor / Reviews Co-Editor
2017-2022	Laboratory Investigation, Associate Editor
2022-Present	Clinical Chemistry, Editor in Chief
<u>Editorial Board</u>	
2013-2022	Archives of Pathology and Laboratory Medicine
2015	Clinical Chemistry
<u>Ad Hoc Reviewer</u>	
2005-2022	Clinical Chemistry
2010	Clinical Chemistry and Laboratory Medicine

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2010	Current Clinical Pharmacology
2010	Virchows Archiv
2012	Luminescence: The Journal of Biological and Chemical Luminescence
2012	Human Mutation
2012	Journal of Personalized Medicine
2013	American Journal of Medical Genetics Part A
2014	Current Therapeutic Research
2014	Human Pathology
2014	Oncotarget
2014, 2020, 2021	Journal of Clinical Microbiology
2014-2020	World Journal of Gastroenterology
2015	Expert Review of Molecular Diagnostics
2015-2020	BMC Medical Genetics
2015-2020	Genome Medicine
2015, 2020	Annals of Internal Medicine
2016-2021	Journal of Molecular Diagnostics
2016-2020	Mayo Clinic Proceedings
2016-2020	BMC Medical Genomics
2017-2020	BMC Pediatrics
2017, 2020	Clinical Biochemistry
2017-2020	Gastrointestinal Endoscopy
2017-2020	Journal of Applied Laboratory Medicine
2019	Annals of Neurology
2019, 2022	Pediatric Research
2020	American Journal of Clinical Pathology
2020-2025	Journal of Pediatric Gastroenterology and Nutrition
2020	mSphere
2020, 2021, 2023	Pediatrics
2020	PLoSOne
2022	Modern Pathology
2022	Journal of Pathology
2025	Genetics in Medicine

Grant Support

<u>Present</u>	
2026-2028	Mary Crowley Cancer Research Foundation
	Making Immunotherapy Safer and More Effective
	Co-PI (5%)
	Total amount of award: \$1,230,442 (direct)

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<u>Past</u>	
1998-2001	Department of Health and Human Services
	Public Health Service Training Grant
	5 T32 DK07705-05
	Predoctoral Trainee
	Principal Investigator: Gerald Litwack
2006-2007	Applera Corporation, Applied Biosystems Group
	Nanostructures as Labels for Assays
	Co-Principal Investigator
	Principal Investigator: Larry Kricka
2008-2009	Department of Health and Human Services
	Ruth L. Kirschstein National Research Service Award
	2 T32 CA067751-11A1
	Postdoctoral Trainee
	Principal Investigator: Edward Gabrielson
2010-2011	Idaho Technologies
	A Clinical Evaluation of the FilmArray Respiratory Panel
	Principal Investigator
	\$52,958
2011-2016	NIH Office of Rare Diseases Collaboration, Education, and Test Translation (CETT) Program for Rare Genetic Diseases
	Glucose Transporter Type 1 Deficiency Syndrome (G1D)
	Co-Principal Investigator
	Principal Investigator: Juan Pascual
	\$12,000
2014	BD Molecular Diagnostics
	BD MAX Enteric Bacterial Panel
	Principal Investigator
	\$61,457
2019-2020	GLUT1 Deficiency Foundation
	Identification of Compounds Increasing Glut1 Activity
	Principal Investigator (3%)

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	Annual amount and date: \$42,000 (2019-2020)
2021	Million Dollar Bike Ride - University of Pennsylvania / The Orphan Disease Center
	Identification of GLUT1 activating compounds in a mouse model
	Principal Investigator (5%)
	Annual amount and date: \$58,364 (2021)
2016-2021	NIH 1R01NS094257-01A1
	Dietary Treatment of GLUT1 Deficiency (G1D)
	Co-Investigator (5%)
	Principal Investigator: Juan Pascual
	Total amount of award: \$2,476,135
2020-2025	NIH 1U01AI156189-01
	Finding the Optimal Balance of Immunotherapy Efficacy and Toxicity
	Co-Investigator (5%)
	Principal Investigator: David Gerber
	Annual amount and date: \$354,319 (2021)
	Total amount of award: \$1,771,596

Teaching Activities

Year(s)	Activity	Location
<u>Medical and graduate school didactic and small group teaching</u>		
2003-2008	Instructor, Sophomore Pathology Course Small Group	University of Pennsylvania
2005-2006	Frontier in Medicine Lecture Introduction to thyroid function testing	University of Pennsylvania
2009-2010	Instructor, Sophomore Pathology Course Small Group	Johns Hopkins University
2011-2015	Instructor, Sophomore Pathology Course Small Group	UT Southwestern
2015	Instructor, First Year Pathology Course Small Group	UT Southwestern
2016	Instructor, First Year Pathology Course Small Group (10/10, 12/5, 12/12)	UT Southwestern
2017-2026	Medical School Curriculum Lecture – Gastrointestinal System and Nutrition: Pathology of the small intestine and colon	UT Southwestern
2017-2026	Medical School Curriculum Lecture – Gastrointestinal System and Nutrition: Pathology of oral cavity, esophagus and stomach	UT Southwestern
2019-2020	Medical School Frontiers in Pediatric Oncology Genomics Interactive Course – TRIG curriculum (2/6/19, 2/6/20)	UT Southwestern
2020-2026	Pathology Small Group for Medical Students on Gastrointestinal Tract	UT Southwestern

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<u>Disertations committees:</u> None		
<u>Qualifying examination committees:</u> None		
<u>Committees concerned with medical and graduate student education:</u> None		
<u>Graduate student rotations:</u> None		
<u>Medical student rotations:</u> None		
<u>Graduate student trainees:</u> None		
Postgraduate medical education (graduate & continuing medical education)		
2009	Pediatric Gastroenterology Housestaff Lecture Selected topics in pediatric gastrointestinal pathology	Johns Hopkins University
2009	Pathology Housestaff Surgical Pathology Unknowns Conference	Johns Hopkins University
2010	Pathology Housestaff Lecture Update in pathophysiology: Personalized medicine, a pathologist's point of view (8/27/10)	UT Southwestern
2011-2015	Pathology Housestaff Lecture Pancreas pathology (3/26/15)	UT Southwestern
2011-2015	Pathology Housestaff Unknown Slides Pancreas pathology	UT Southwestern
2013-2015	Pathology Housestaff Lecture Pediatric gastrointestinal pathology (3/25/15)	UT Southwestern
2015	Pathology Housestaff Unknown Slides Pediatric gastrointestinal pathology (3/24/15)	UT Southwestern
2011	Pathology Housestaff Lecture Tumor markers (2/22/11)	UT Southwestern
2011	Pathology Housestaff Lecture Update in molecular pathology: Ethics in genetic testing, practical considerations for pathologists (11/11/11)	UT Southwestern
2012	Guest Faculty, Ethics in Clinical Science (EiCS) Department of Clinical Sciences Authorship and data ownership (2/21/12)	UT Southwestern
2012	Pediatrics Housestaff Lecture Death and Discharge Conference: Clinical genomic testing, potential & pitfalls (4/26/12)	Children's Medical Center
2012	Pediatric Multidisciplinary Clinical Conference (6/5/12) Pathologic findings in a 14-month-old with chronic diarrhea	Children's Medical Center
2012	Pediatric Gastrointestinal Pathology Clinical Conference (9/10, 10/3, 12/3)	Children's Medical Center
2013	Pediatric Gastrointestinal Pathology Clinical Conference (3/6, 4/1, 10/2, 11/6)	Children's Medical Center

2013	Pediatrics Housestaff Lecture Death and Discharge Conference: Pediatric genetic testing (5/23/13)	Children's Medical Center
2013	Pediatric Gastroenterology Division Lecture Helicobacter pylori clarithromycin resistance (7/24/13)	UT Southwestern
2013	Pediatric Neurology Division Lecture Genetic testing in pediatric neurology (8/28/13)	UT Southwestern
2013	Pediatric Pathology Fellowship Lecture Genetic testing for the pediatric pathologist (9/6/13)	UT Southwestern
2014	Pediatric Endocrinology Division Lecture Genetic testing in pediatric endocrinology (1/28/14)	UT Southwestern
2014	Medical Genetics Lecture Genetic testing (5/9/14)	UT Southwestern
2014	Pediatric Gastrointestinal Pathology Clinical Conference (2/3, 6/2, 9/3, 10/1, 11/5)	UT Southwestern
2014	Pediatric Multidisciplinary Clinical Conference (11/4)	UT Southwestern
2014	Liver Transplantation Conference (11/13)	Children's Medical Center
2014	Inflammatory Bowel Disease Conference (1/9)	UT Southwestern
2014	GI Oncology Tumor Board (5/14)	UT Southwestern
2014	Pediatric Pathology Journal Club Presentation (8/26)	UT Southwestern
2015	Pediatric Gastrointestinal Pathology Clinical Conference (2/2, 3/2,4/6,5/13)	UT Southwestern
2015	McDermott Center Works In Progress: Clinical applications of next-generation sequencing (1/30)	UT Southwestern
2015	Pediatrics Housestaff Lecture Death and Discharge Conference: Challenges in clinical genomic testing (2/5)	Children's Medical Center
2015	Molecular Tumor Board Case Discussion, Children's Medical Center (2/16) Multigene tests and emerging trial designs (4/20)	UT Southwestern
2015	Pediatric Multidisciplinary Clinical Conference (2/5)	UT Southwestern
2015	Pediatric Gastroenterology Teaching Conference Pediatric gastrointestinal pathology: Session 1 (4/9/15) Pediatric gastrointestinal pathology: Session 2 (4/30/15)	UT Southwestern
2016	Pediatric Clinicopathologic Conference (1/13): An infant with rash and axillary mass	UT Southwestern
2016	Pediatric Multidisciplinary Clinical Conference (1/26): A 13 year-old boy with recurrent infections and chronic abdominal pain	UT Southwestern
2016	Pediatric Gastrointestinal Pathology Clinical Conference (1/6, 2/3,4/6,5/11,6/1, 8/24, 11/2)	UT Southwestern
2016	Pediatric Infectious Diseases Clinical Conference	UT Southwestern

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	Current and future molecular techniques in the clinical laboratory (4/11)	
2016	Molecular Tumor Board Conference (4/21,5/19,6/16,7/21,9/15,10/20)	UT Southwestern
2016	Pediatric Molecular Genetic Tumor Board Conference (11/15)	Children's Medical Center
2016	UTSW ET Program Retreat: Personalized medicine sequencing technologies (5/18)	UT Southwestern
2016	Clinical Genetics Case Conference (5/27, 7/14)	UT Southwestern
2016	McDermott Center Works In Progress: Clinical exome problems (6/17)	UT Southwestern
2016	UTSW Cancer Center Laboratory Correlates Working Group Clinical oncology applications of circulating cell-free DNA (9/8)	UT Southwestern
2018	Pediatric Gastrointestinal Pathology Clinical Conference (1/17, 3/21, 6/13, 7/25, 8/22, 11/14, 12/19)	UT Southwestern
2018	Pathology Residency Genomics Interactive Course – TRIG Curriculum: Single gene testing (10/9)	UT Southwestern
2018	Pathology Residency Genomics Interactive Course – TRIG Curriculum: Exome testing (10/9)	UT Southwestern
2019	Pediatric Gastrointestinal Pathology Clinical Conference (1/23, 2/20,4/17,5/15,7/24,8/21)	UT Southwestern
2020	Pediatric Gastrointestinal Pathology Clinical Conference (2/19, 4/15, 5/13, 6/10, 8/5, 9/2, 10/7, 11/11, 12/2)	UT Southwestern
2021	Pediatric Gastrointestinal Pathology Clinical Conference (1/6, 2/3, 3/3, 4/7, 8/18, 9/15, 10/13, 12/15)	UT Southwestern
2020-2021	Summer Genetics Fellowship for Medical Students Interpreting genetic tests (6/15/20, 6/23/21)	UT Southwestern
2020	Pathology Residency Program: Advice to Pathology Residents on Writing & Reviewing Manuscripts (7/31)	UT Southwestern
2020	Pediatric Hematology and Oncology Clinical Genomics Conference (9/23, 9/30)	UT Southwestern
2020	Pediatric Hematology and Oncology Tumor Board (9/8)	UT Southwestern
2020	Pathology Residency Program: Pediatric Gastrointestinal Pathology (9/30)	UT Southwestern
2020	Pediatric Multidisciplinary Conference (9/29): What came first: Weakness or wasting?	UT Southwestern
2020	Inflammatory Bowel Disease Multidisciplinary Conference (11/23)	UT Southwestern
2021	Inflammatory Bowel Disease Multidisciplinary Conference (1/25, 4/12, 9/13)	UT Southwestern
2022	Pediatric Gastrointestinal Pathology Clinical Conference (1/19, 3/23, 5/18, 8/17, 9/14, 10/26, 12/14)	UT Southwestern

2023	Pediatric Gastrointestinal Pathology Clinical Conference (1/18, 3/22, 5/17, 8/7, 9/21, 11/13)	UT Southwestern
2024	Pediatric Multidisciplinary Conference (5/7): Bloody diarrhea in an infant : an unusual culprit in breastmilk	UT Southwestern
2024	Pediatric Gastrointestinal Pathology Clinical Conference (1/29/24, 3/21/24, 5/13/24, 8/5/24, 9/9/24, 10/7/24, 11/4/24, 12/2/24)	UT Southwestern
Postdoctoral trainees (Pathology residents and fellows with research projects)		
2014	Matthew Hiemenz, MD (Pathology Resident) Project: Pathology licensure Publication: Am J Surg Pathol 2014;38:e1-4. Current position: Foundation Medicine, MA	UT Southwestern
2014	Jason Wang, MD (Pediatric Pathology Fellow) Project: Diagnostic yield of genomic epilepsy tests Publication: JAMA Neurology 2014;71:650-1. Award: Harry B. Neustein Award at the Society for Pediatric Pathology Current position: Cook Children's, TX	UT Southwestern
2014	Zhen Yan, MD, PhD (Pathology Resident) Project: Clinical significance of CMV immunohistochemistry Publication: Int J Surg Pathol 2014;22:492-8. Current position: Diagnostic Pathology Medical Group, CA	UT Southwestern
2014	Midhat Farooqi, MD, PhD (Pathology Resident) Project: Clinical Genomic Testing Publications: J Mol Diagn 2016;18:572-9; Clin Chem 2016;62:1032-4; J Pediatr 2020;S0022-3476:30348-6. Current position: University of Missouri-Kansas City School of Medicine; University of Kansas School of Medicine, MO	UT Southwestern
2016	Maryam Pezhouh, MD (Pathology Resident) Project: Rectal Paneth cells Publication: Am J Surg Pathol 2016;40:968-71. Current position: UC San Diego, CA	UT Southwestern
2018-2020	Jeffrey SoRelle, MD (Pathology Resident) Projects: Genomics/Molecular Diagnostics Publications: JAMA Pediatr 2018;e182302; JAMA Netw Open 2020;3:e203812; J Appl Lab Med 2020;jfaa089 Current position: UT Southwestern, TX	UT Southwestern
2019	David Metter, MD (Pediatric Pathology Fellow) Project: Pathology workforce Publication: JAMA Netw Open. 2019 May 3;2(5):e194337 Current position: Memorial Hospital of Tampa, FL	UT Southwestern
2019-2021	Ozlem Kulak, MD, PhD (Pathology Resident) Projects: Smart Glasses, Gastrointestinal Pathology Publication: Arch Pathol Lab Med. 2021;145:457-460 Current position : Johns Hopkins University, MD	UT Southwestern

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2020-2021	Simone Arvisais-Anhalt, MD (Pathology Resident) Project: Pathology workforce Publication: Am J Clin Pathol. 2021;155:674-679 Current position: UC San Francisco, CA	UT Southwestern
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Invited Lectures

Year(s)	Title	Location
<u>International</u>		
2006	Fourth Meeting of the Athena Society Molecular diagnostics in surgical pathology	Mykonos, Greece
2015	Asan Medical Center Genomic medicine for oncology	Seoul, South Korea
2015	Samsung Medical Center Genomic gastrointestinal oncology	Seoul, South Korea
2016	IFCC General Conference: Feeding the future of IFCC (3/19) Cancer genomics: Revolution in medical practice	Madrid, Spain
2016	14 th APFCB Congress Standards for cancer genomic clinical laboratories (11/27)	Taipei, Taiwan
<u>National</u>		
1999	One-Hundredth Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics Regulation of human particulate guanylyl cyclase gene expression by the homeodomain protein, Cdx2	San Antonio, TX
2005	Academy of Clinical Laboratory Physicians and Scientists Molecular assay for the characterization of hepatic carnitine palmitoyltransferase 1A deficiency	Pittsburgh, PA
2007	Office of the Chief Medical Examiner of the State of Delaware Nanotechnology in forensic science and clinical diagnostics	Wilmington, DE
2010	Ninth Spring Seminar of the Korean Pathologists Association of North America Molecular testing in gastrointestinal and pancreatic cancer	Washington, D.C.
2011	3 rd Annual Conference on GLUT1 Deficiency New testing methods for the diagnosis of GLUT1 deficiency	New Orleans, LA
2011	American Association for Clinical Chemistry and American Society for Clinical Laboratory Science A Q&A with the FDA on the RUO/IUO draft guidance	Webinar
2012	4 th Annual Conference on GLUT1 Deficiency Current and future genetic testing for Glut1 deficiency	Indianapolis, IN
2013	Children's Hospital of Philadelphia, Clinical/Pathology Seminar Series: A decade of clinical multimarker testing	Philadelphia, PA
2014	American Association for Clinical Chemistry, Clinical Chemistry Trainee Council: Pearls of Laboratory Medicine Sanger sequencing	Webinar
2015	GEN: Genetic Engineering and Biotechnology News	Webinar

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	Making whole genome sequencing a prime time clinical practice	
2015	Fourteenth Spring Seminar of the Korean Pathologists Association of North America Advanced molecular diagnostics in gastrointestinal pathology	Boston, MA
2017	Beth Israel Deaconess Medical Center The autonomous future of pathology	Boston, MA
2017	AACC US Congressional Briefing: Reducing Medical Costs and Improving Outcomes Through Laboratory Testing Early detection of colon cancer	Washington, DC
2019	Johns Hopkins Hospital Your DNA could imprison your child: Consumer genetics and law enforcement (3/13)	Baltimore, MD
2019	2019 KOPANA 18 th Spring Seminar Genomic pathology for surgical pathologists	National Harbor, MD
2020	Centers for Medicare & Medicaid Services Clinical laboratory Fee Schedule (CLFS) annual laboratory meeting CLFS presentation on behalf of AACC (6/22)	Baltimore, MD (Rescheduled as Webinar)
2021	2021 Virtual KOPANA Spring Seminar (3/12); session moderator and lecturer Clinical genomics in surgical pathology – lecture	Virtual Meeting
2021	Research Advocacy Network: Overview of molecular tumor boards (4/13)	Virtual Meeting
2021	Research Advocacy Network: Simulated molecular tumor board (Moderator; 4/13)	Virtual Meeting
2021	Glut1 Deficiency Foundation Inaugural Scientific Meeting Identifying new treatments for Glut1 Deficiency (6/21)	Virtual Meeting
2021	Glut1 Deficiency Foundation Inaugural Scientific Meeting Special Interest Roundtables: Glut1 Deficiency research (Moderator; 6/22)	Virtual Meeting
2021	Centers for Medicare & Medicaid Services Clinical laboratory Fee Schedule (CLFS) annual laboratory meeting CLFS presentation on behalf of AACC (6/24)	Virtual Meeting
2021	Memorial Healthcare System Clinical genomic testing in a pediatric health system (11/18)	Miami, FL (Virtual Presentation)
2022	Glut1 Deficiency Foundation 2 nd Annual Scientific Meeting Identification of GLUT1 activating compounds in a mouse model (7/12)	San Diego, CA (Virtual Presentation)
2023	Weill Cornell Medicine Pathology and Laboratory Medicine Grand Rounds The Autonomous Future of the Clinical Laboratory (1/30/23)	New York, NY
2023	Yale Laboratory Medicine Grand Rounds The Autonomous Future of the Clinical Laboratory (3/1/23)	New Haven, CT
2023	Washington University School of Medicine Laboratory and Genomic Medicine Grand Rounds	St Louis, MO

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	Laboratory Medicine after the Pandemic (9/21)	
2023	UTMB Meyer Bodansky Memorial Lecture: Personalized Genomics (10/16)	Galveston, TX
2023	UTMB Pathology Grand Rounds: Trends in the Post-Pandemic Era of Pathology (10/16)	Galveston, TX
2025	The Genomic Future of Pathology (10/10)	Hershey, PA
2026	Annual Meeting of the Association for Diagnostics and Laboratory Medicine (ADLM): Coordinator for Plenaries	Anaheim, CA
<u>Regional/Local</u>		
2011	1 st Annual Children's Medical Center Laboratory Medicine Conference: Updates on molecular testing in the clinical laboratory	Dallas, TX
2011	Cancer Imaging Program Seminar Series. UT Southwestern Department of Radiology: Optical imaging agents for precancerous lesions of the digestive tract (7/6/11)	Dallas, TX
2011	Children's Medical Center Pediatric Grand Rounds Ethics in genetic testing: Practical considerations in pediatrics (10/12/11)	Dallas, TX
2012	5 th Annual Children's Medical Center Transfusion & Laboratory Medicine Conference Genetic testing: Case studies of ethical and analytical dilemmas	Dallas, TX
2012	Children's Research Week Clinical laboratory research	Dallas, TX
2013	6 th Annual Children's Medical Center Transfusion & Laboratory Medicine Conference: Management of referral testing	Dallas, TX
2013	29 th Annual Current Issues in Surgical Pathology: Molecular tests in anatomic pathology (4/26/13)	Dallas, TX
2013	CLMA, North Texas Chapter Annual Conference: Test utilization	Dallas, TX
2015	UT Southwestern Medical Center; Cancer Genetics: Going Beyond the Guidelines: Genomic tumor testing (9/19/15)	Dallas, TX
2016	Children's Medical Center Pediatric Grand Rounds Genomic testing: A routine clinical service (9/28/16)	Dallas, TX
2017	North Texas Genetics Network Updates in clinical genomic testing (4/13/17)	Arlington, TX
2017	Cook Children's Medical Center Clinical genomic testing (8/24/17)	Fort Worth, TX
2018	11 th Annual Transfusion and Laboratory Medicine Conference Automation and the future of the clinical laboratory (2/7/18)	Dallas, TX
2019	Cook Children's Hematology/Oncology Grand Rounds Clinical genomics in pediatric oncology (1/18/19)	Fort Worth, TX
2019	12 th Annual Transfusion and Laboratory Medicine Conference Direct-to-consumer genetic tests and criminal surveillance (2/15/19)	Dallas, TX

2020	13 th Annual Children's Health Transfusion & Laboratory Medicine Conference. Clinical laboratory workforce trends (2/13/20)	Dallas, TX
2021	Clinical and Translational Biomarker Development (moderator) Simmons Comprehensive Cancer Center Experimental Therapeutics Program, Biomarker Research Core (1/20/21)	Virtual Meeting
2021	14 th Annual Children's Health Transfusion & Laboratory Medicine Conference. Emerging technologies in clinical genomics (2/12/21)	Virtual Meeting
2021	UT Southwestern Medical Center: Oncology Exploration 2021 Cancer genomics in diagnosis and therapy	Dallas, TX
2022	UT Southwestern Medical Center: Blackstone Launch Pad Dolphin Tank Cancer immunotherapy toxicity predictor (6/9)	Dallas, TX
2022	UT Dallas; Department of Biomedical Engineering: Evolution of Genomics in Healthcare (11/18)	Richardson, TX
2023	New Frontiers in Pediatric Neurology (UT Southwestern CME Course): Genetic Testing in Pediatric Neurology (4/14)	Dallas, TX
2023	Children's Health Pediatric Grand Rounds (Clinical-Pathologic Correlation Conference): When is a Genetic Variant Clinically Significant? (6/21)	Dallas, TX
2024	UT Southwestern Department of Pathology: Future of Genomics in Academic Pathology (2/5)	Dallas, TX

Technological and Other Scientific Innovations

Patents	
1.	Waldman SA, Park J , Schulz S. (2004) Methods of screening and diagnosing esophageal cancer by determining guanylyl cyclase C expression. U.S. Patent No. 6,767,704
2.	Waldman SA, Park J , Schulz S. (2005) Compositions and methods for identifying and targeting cancer cells of alimentary canal origin. U.S. Patent No. 6,844,153
3.	Waldman SA, Park J , Schulz S. (2009) Compositions and methods for identifying and targeting cancer cells of alimentary canal origin. U.S. Patent No. 7,479,376 (CDX2 therapeutics)
4.	Waldman SA, Park J , Schulz S. (2009) Detection of CDX2 expression. U.S. Patent No. 7,485,422
5.	Waldman SA, Park J , Schulz S. (2010) Compositions and methods for identifying and targeting cancer cells of alimentary canal origin. U.S. Patent No. 7,745,114 (CDX1 therapeutics)
6.	Waldman SA, Park J , Schulz S. (2010) Compositions and methods for identifying and targeting cancer cells of alimentary canal origin. U.S. Patent No. 7,785,817 (CDX2 therapeutics)
7.	Waldman SA, Park J , Schulz S. (2010) Compositions and methods for identifying and targeting cancer cells of alimentary canal origin. U.S. Patent No. 7,854,933
8.	Kricka LJ and Park JY . (2011) Nanostructures that provide a modified nanoenvironment for the enhancement of luminescence. U.S. Patent No. 7,879,575
9.	Kricka LJ and Park JY . (2011) Nanostructure enhanced luminescent devices. U.S. Patent No. 7,919,019

10. Waldman SA, Park J , Schulz S. (2011) Compositions and methods for identifying and targeting cancer cells of alimentary canal origin. U.S. Patent No. 8,067,007
11. Waldman SA, Pitari GM, Park J , Schulz S, Wolfe H, Lubbe W. (2012) Use of GCC ligands. U.S. Patent No. 8,206,704
12. Waldman SA, Park J , Schulz S. (2015) Compositions and methods for identifying and targeting cancer cells of alimentary canal origin. U.S. Patent No. 8,946,168
13. Waldman SA, Park J , Schulz S. (2015) Compositions and methods for identifying and targeting cancer cells of alimentary canal origin. U.S. Patent No. 9,429,576
14. Gerber DE, Wakeland E, Li Q, Khan S, Park JY, Luo X, Xie Y. (2023) Prediction and treatment of immunotherapeutic toxicity. U.S. Patent No. 11,747,345
15. Wakeland E, Gerber DE, Li Q, Khan S, Khan S, Xie Y, Park JY, Fattah F, Xin L. (2019) Prediction and treatment of immunotherapeutic toxicity. U.S. Patent Application 2019/026275 (16/487335). WO/2019/195823
16. Wakeland E, Gerber DE, Li Q, Khan S, Khan S, Xie Y, Park JY, Farrah F, Xin L. (2021) Prediction and treatment of immunotherapeutic toxicity. U.S. Patent Application 2021/0263045 (17/045582).
17. Wakeland E, Gerber DE, Li Q, Khan S, Khan S, Xie Y, Park JY, Farrah F, Xin L. (2021) Prediction and treatment of immunotherapeutic toxicity. U.S. Patent Application 2023/0288415 (18/062938).
18. Park JY, Farrar JD, Gerber DE, Fattah F, Mu-Mosley H. (2023) Methods of predicting and treating immunotherapy toxicity based on immune cell populations. U.S. Patent Application 2024/0150836 (18/504868)
19. Gerber DE, Wakeland E, Li Q, Khan S, Park JY, Luo X, Xie Y. (2025) Prediction and treatment of immunotherapeutic toxicity. U.S. Patent No. 12,498,831

Clinical Laboratory Test Development & Validation (asterisk indicates a novel test or first of kind)
Full Gene Sequencing Tests: <i>CDKL5</i> , Connexin 26 (<i>GJB2</i>), <i>GCDH</i> , <i>MECP2</i> , <i>SFTPC</i> , <i>SFTPA1*</i> , <i>SFTAP2*</i> , <i>TERT</i> , <i>TERC</i>
Genomic Tests: • Oncology Targeted Sequencing (25 gene, next-generation sequencing panel) (2014) • Epilepsy Sequencing Test (134 gene, next-generation sequencing panel) (2015) • Neuromuscular Disorders (125 genes) (2016) • Immunodeficiency (105 genes) (2016) • Skeletal Dysplasia (52 genes) (2016) • Pulmonary Disease (37 genes) (2016) • Hemophagocytic Lymphohistiocytosis (16 genes) (2016) • Noonan Spectrum/RASopathies (14 genes) (2016) • Cholestasis (11 genes) (2016) • Dyskeratosis Congenita (10 genes) (2016) • Periodic Fever (10 genes) (2016) • Fetal Akinesia (4 genes) (2016) • Hereditary Pancreatitis (4 genes) (2016)

- MedExome (4783 genes) (2018)
- XLID (116 genes) (2018)
- Oncology Fusion Sequencing (93 genes) (2018)

Other:

- Quantitative GUCY2C mRNA RT-PCR test for metastatic colorectal cancer (Precursor to Previstage™)* (2003)
- Connexin 30 (*GJB6*, Deletion)
- Helicobacter pylori Clarithromycin Resistance Testing (23S rRNA)* (2014)
- MECP2 del/dup (MLPA) (2014)
- Immucor PreciseType HEA – Allelic variants that predict red blood cell phenotypes (2016)
- Affymetrix CytoScanDx – Chromosomal microarray (2017)
- SARS-CoV-2, 2019 Novel Coronavirus RT-PCR Clinical Test (2020)
- AmplideX PCR/CE FMR1 (2021)
- Measles PCR (2024)
- DPYD Pharmacogenetics (2026)

Bibliography

Peer-Reviewed Publications

Original Research Articles

1.	Waldman SA, Barber M, Pearlman J, Park J , George R, Parkinson SJ. Heterogeneity of guanylyl cyclase C expressed by human colorectal cancer cells in vitro. <i>Cancer Epid Bio Prev.</i> 1998 Jun;7(6):505-514
2.	Cagir B, Gelmann A, Park J , Fava T, Tankelevitch A, Bittner EW, Weaver EJ, Palazzo JP, Weinberg D, Fry RD, Waldman SA. Guanylyl cyclase C messenger RNA is a biomarker for recurrent Dukes' stage B colorectal cancer. <i>Ann Intern Med.</i> 1999 Dec;131(11):805-812
3.	Pearlman J, Prawer S, Barber M, Parkinson SJ, Schulz S, Park J , Zook M, Waldman SA A splice variant of the transcript for guanylyl cyclase C is expressed in human colon and colorectal cancer cells. <i>Dig Dis Sci.</i> 2000 Feb;45(2):298-305
4.	Park J , Schulz S, Waldman SA. Intestine-specific activity of the human guanylyl cyclase C promoter is regulated by Cdx 2. <i>Gastroenterology.</i> 2000 Jun;119(1):89-96
5.	Pitari GM, Diguglielmo M, Park J , Schulz S, Waldman SA. Guanylyl cyclase C ligands regulate the cell cycle progression of colon carcinoma cells. <i>Proc Nat Acad Sci USA.</i> 2001 Jul;98(14):7846-51
6.	Di Guglielmo M*, Park J* , Schulz S, Waldman SA. Nucleotide requirements for CDX2 binding to the cis promoter element mediating intestine-specific expression of guanylyl cyclase C. <i>FEBS Lett.</i> 2001 Oct;507(2):128-32. *co-first authors
7.	Fava TA, Desnoyers R, Schulz S, Park J , Weinberg D, Mitchell E, Waldman SA. Guanylyl cyclase C and other biomarkers are selectively expressed in CD34+ progenitor cells in peripheral blood. <i>J Clin Oncol.</i> 2001 Oct;19(19):3951-9
8.	Park J , Schulz S, Haaf J, Kairys JC, Waldman SA. Ectopic expression of guanylyl cyclase C in adenocarcinomas of the esophagus and stomach. <i>Cancer Epid Bio Prev.</i> 2002 Aug;11(8):739-44
9.	Kricka LJ, Park JY . Additive-aggravated assays: An authoritative answer. <i>Clin Chem.</i> 2005 Oct;51(10):1767
10.	Kricka LJ, Park JY , Senior MB, Fontanilla R. Processing controls in blood collection tubes reveals interference. <i>Clin Chem.</i> 2005 Dec;51(12):2422-2423

11.	Park JY , Li SFY, Kricka LJ. Nanotechnological nutraceuticals – nurturing or nefarious? Clin Chem. 2006 Feb;52(2):331-332
12.	Park JY , Narayan SB, Bennett MJ. Molecular assay for detection of the common carnitine palmitoyltransferase 1A 1436(C>T) mutation. Clin Chem Lab Med. 2006 Sep;44(9):1090-1091
13.	Mark SS, Stolper SI, Baratti C, Park JY , Taku MA, Santiago-Aviles JJ, Kricka LJ. Bioconjugation of alkaline phosphatase to mechanically processed, aqueous suspendible electrospun polymer nanofibers for use in chemiluminescent detection assays. Macromolecular Bioscience. 2008 Jun 8(6):484-98
14.	Mark SS, Stolper SI, Baratti C, Park JY , Kricka LJ. Biofunctionalization of aqueous dispersed, alumina membrane-templated polymer nanorods for use in enzymatic chemiluminescence assays. Colloids Surf. B: Biointerfaces. 2008 Sep;65(2):230-8
15.	Simonetti V, Park JY , Panaro NJ, Kricka LJ. Nylon and nylon blend nanorods and nanotubes. J Nanopart Res. 2008 Feb;10(2):365-8
16.	Nguyen T, Park JY , Scudiere JR, Montgomery E. Mycophenolic acid (Cellcept and Myofortic) induced injury of the upper GI tract. Am J Surg Pathol. 2009 Sep;33(9): 1355-63
17.	Chang HK, Yu E, Kim J... Park JY , Hong SM. Adenocarcinoma of the small intestine: a multi-institutional study of 197 surgically resected cases. Hum Pathol. 2010 Aug;41(8):1087-96
18.	Shi C, Scudiere JR, Cornish TC, Park JY , Lam-Himlin D, Fox MR, Montgomery EA. Clear cell change in colonic tubular adenoma and corresponding colonic clear cell adenocarcinoma is associated with an altered mucin core protein profile. Am J Surg Pathol. 2010 Sep;34(9):1344-50
19.	Park JY , Cornish TC, Lam-Himlin D, Shi C, Montgomery EA. Gastric lesions in patients with autoimmune metaplastic atrophic gastritis (AMAG) in a tertiary care setting. Am J Surg Pathol. 2010 Nov;34(11):1591-8
20.	Lam-Himlin D, Park JY , Cornish TC, Shi C, Montgomery EA. Morphologic characterization of syndromic gastric polyps. Am J Surg Pathol. 2010 Nov;34(11):1656-62
21.	Park JY , Kirn TJ, David A, Waldman SA, Kricka LJ. Chemiluminescence based detection of gastrointestinal malignancies. Luminescence. 2010 Nov-Dec;25(6): 463-5
22.	Park JY , Hong SM, Klimstra DS, Goggins MG, Maitra A, Hruban RH. Pdx1 expression in pancreatic precursor lesions and neoplasms. Appl Immunohistochem Mol Morphol. 2011 Oct;19(5):444-9
23.	Khokhar SK, Mitui M, Leos NK, Rogers BB, Park JY . Evaluation of Maxwell16 for automated DNA extraction from whole blood and formalin-fixed paraffin embedded (FFPE) tissue. Clin Chem Lab Med. 2011 Oct;50(2):267-72
24.	Yusuf D, Butland SL, Swanson MI... Park J ...Bradley PH, Wasserman WW. The transcription factor encyclopedia. Genome Biol. 2012;13(3): R24.
25.	Horton CJ, Mitui M, Leos NK, Garcia CK, Park JY . Long-range PCR based sequencing of the highly homologous genes, SFTPA1 and SFTPA2. Mol Cell Probes. 2013 Jun-Aug;27(3-4):115-7
26.	Mitui M, Leos NK, Lacey D, Doern C, Rogers BB, Park JY . Development and validation of a quantitative real time PCR assay for BK virus. Mol Cell Probes. 2013 Oct-Dec;27(5-6):230-6.
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28.	Hiemenz MC, Leung ST, Park JY . Crossing boundaries: A Comprehensive survey of medical licensing laws and guidelines regulating the interstate practice of pathology. Am J Surg Pathol. 2014 Mar;38(3):e1-4. PMID 24525516

29.	Wang J, Gotway G, Pascual JM, Park JY . Diagnostic yield of clinical next-generation sequencing panels for epilepsy. <i>JAMA Neurology</i> . 2014 May;71(5):650-651. PMID 24818677
30.	Park JY , Gunpat J, Liu L, Edward B, Christie A, Xie XJ, Kricka LJ, Mason RP. Red-shifted emission from 1,2-Dioxetane based chemiluminescent reactions. <i>Luminescence</i> . 2014 Sept;29(6):553-8. PMID 24760607. Cover Article
31.	Racsa L, Rogers ZR, Mitui M, Park JY , Timmons C, Luu H. Homozygous hemoglobin S with concomitant hemoglobin G-Philadelphia: A diagnostic challenge. <i>Pediatr Blood Cancer</i> . 2014 Oct;61(10):1899-1900. PMID 24777785
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Jason Y. Park, MD, PhD

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