

## *Curriculum vitae*

**Date Prepared:** September 1, 2022  
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**Place of Birth:** Pennsylvania

### **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

### **Current Licensure and Certification**

#### Licensure

Texas 2010-Present

#### Board and Other Certification

2006\* American Board of Pathology – Clinical Pathology

2008\* American Board of Pathology – Anatomic Pathology

2015 American Board of Pathology – Clinical Informatics

2016 American Board of Clinical Chemistry – Molecular Diagnostics

\*Maintenance of Certification (MOC) completed for certification through 2026.

### **Honors and Awards**

Year	Name of Honor/Award	Awarding Organization
1996	Summer Medical Research Program	National Cancer Institute

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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 <sup>th</sup> 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

### **Faculty Academic Appointments**

Year(s)	Academic Title	Department	Academic Institution
2009-2010	Assistant in Pathology	Pathology	Johns Hopkins University School of Medicine
2010-2016	Assistant Professor, Clinical Educator Track	Pathology	UT Southwestern Medical Center
2016-2022	Associate Professor, Clinical Educator Track	Pathology	UT Southwestern Medical Center
2022-Present	Professor, Clinical Educator Track	Pathology	UT Southwestern Medical Center
2013-2016	Assistant Professor, Clinical Educator Track	Eugene McDermott Center for Human Growth & Development	UT Southwestern Medical Center

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2016-2022	Associate Professor, Clinical Educator Track	Eugene McDermott Center for Human Growth & Development	UT Southwestern Medical Center
2022-Present	Professor, Clinical Educator Track	Eugene McDermott Center for Human Growth & Development	UT Southwestern Medical Center

### **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

### **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

### **Major Administrative/Leadership Positions**

Year(s)	Position Title	Institution
2006-2008	Co-Director, Center for Biomedical Micro & Nanotechnologies	University of Pennsylvania School of Medicine

### **Committee Service**

Year(s)	Name of Committee	Institution/Organization
<u>UTSW</u>		
2018-Present	Pathology Faculty Mentoring Committee	Department of Pathology
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
<u>Hospital</u>		

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2017-Present	Laboratory Utilization Committee	Children's Health Dallas
2020-Present	Children's Credentials Committee	Children's Health Dallas
<b><u>National/International</u></b>		
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)
	Policy Roundtable (2020-Present)
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 <sup>st</sup> 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)
2011-Present	Association for Molecular Pathology (AMP), Member
	Informatics Nominating Committee Representative (2021-Present)
2012-Present	American College of Medical Genomics (ACMG), Member and Affiliate Specialist
2015-Present	Healthcare Information and Management Systems Society (HIMSS), Member

### **Grant Review Activities**

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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-Present	Clinical Chemistry, Associate Editor / Reviews Co-Editor
2017-2022	Laboratory Investigation, Associate Editor
<u>Editorial Board</u>	
2013-2022	Archives of Pathology and Laboratory Medicine
2015	Clinical Chemistry
<u>Ad Hoc Reviewer</u>	
2005-Present	Clinical Chemistry
2010	Clinical Chemistry and Laboratory Medicine
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	Pediatric Research

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2020	American Journal of Clinical Pathology
2020, 2021	Journal of Pediatric Gastroenterology and Nutrition
2020	mSphere
2020, 2021	Pediatrics
2020	PLoSOne

### **Grant Support**

<u>Present</u>	
2016-2021	NIH 1R01NS094257-01A1
	Dietary Treatment of GLUT1 Deficiency (G1D)
	Co-Investigator (5%)
	Principal Investigator: Juan Pascual
	Annual amount and date: \$371,598 (2021)
	Total amount of award: \$2,476,135
2020-2025	NIH 1U01AI156189-01
	Finding the Optimal Balance of Immunotherapy Efficacy and Toxicity
	Co-Investigator (5% in years 4 and 5)
	Principal Investigator: David Gerber
	Annual amount and date: \$354,319 (2021)
	Total amount of award: \$1,771,596
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)

<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

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	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%)
	Annual amount and date: \$42,000 (2019-2020)

### **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
2011,2012, 2013,2014, 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 to 2022	Medical School Curriculum Lecture – Gastrointestinal System and Nutrition: Pathology of the small intestine and colon	UT Southwestern
2017 to 2022	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, 2021, 2022	Medical School Frontiers of Neoplasia: Introduction to genomics (5/28/20, 2/11/21, 2/10/22)	UT Southwestern
2020, 2021	Pathology Small Group for Medical Students on Gastrointestinal Tract (8/13/20; 8/19/21)	UT Southwestern

Disertations committees: None

Qualifying examination committees: None

Committees concerned with medical and graduate student education: None

Graduate student rotations: None

Medical student rotations: None

Graduate student trainees: 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
2011,2012, 2013,2014, 2015	Pathology Housestaff Lecture Pancreas pathology (3/26/15)	UT Southwestern
2011,2012, 2013,2014, 2015	Pathology Housestaff Unknown Slides Pancreas pathology	UT Southwestern
2013,2014. 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	UT Southwestern

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	Tumor markers (2/22/11)	
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:	Children's Medical Center

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	Challenges in clinical genomic testing (2/5)	
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 Current and future molecular techniques in the clinical laboratory (4/11)	UT Southwestern
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
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: Northwestern University, IL	UT Southwestern
2018-2020	Jeffrey SoRelle, MD (Pathology Resident) Projects: Genomics/Molecular Diagnostics	UT Southwestern

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	Publications: JAMA Pediatr 2018;e182302; JAMA Netw Open 2020;3:e203812; J Appl Lab Med 2020;jfaa089 Current position: UT Southwestern, TX	
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 (2021-2022): Johns Hopkins University (Gastrointestinal & Liver Pathology Fellowship)	
2020-2021	Simone Arvisais-Anhalt, MD (Pathology Resident) Project: Pathology workforce Publication: Am J Clin Pathol. 2021;155:674-679 Current position (2021-2022): UC San Francisco	UT Southwestern

### **Invited Lectures**

Year(s)	Title	Location
<b><u>International</u></b>		
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 <sup>th</sup> APFCB Congress Standards for cancer genomic clinical laboratories (11/27)	Taipei, Taiwan
<b><u>National</u></b>		
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
2009	Johns Hopkins Medicine: Ninth Annual Current Topics in Gastrointestinal and Liver Pathology Diagnosis, prognosis and prediction: Molecular assays in gastrointestinal surgical pathology	Baltimore, MD

2010	Ninth Spring Seminar of the Korean Pathologists Association of North America Molecular testing in gastrointestinal and pancreatic cancer	Washington, D.C.
2010	Johns Hopkins Medicine: Tenth Annual Current Topics in Gastrointestinal and Liver Pathology Updates in gastrointestinal pathology molecular assays	Baltimore, MD
2011	3 <sup>rd</sup> 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
2011	Johns Hopkins Medicine: Eleventh Annual Current Topics in Gastrointestinal and Liver Pathology Esoteric testing in GI pathology: Expensive...effective?	Baltimore, MD
2012	4 <sup>th</sup> 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
2013	Johns Hopkins Medicine: Thirteenth Annual Current Topics in Gastrointestinal and Liver Pathology A trio of gastritides: Infectious, autoimmune and drug-induced	Baltimore, MD
2014	American Association for Clinical Chemistry, Clinical Chemistry Trainee Council: Pearls of Laboratory Medicine Sanger sequencing	Webinar
2014	American Association for Clinical Chemistry Annual Meeting Short Course on Validating Laboratory Developed Tests (LDTs): Practical Application Examples Molecular: Validating GCDH gene sequencing.	Chicago, IL
2014	Johns Hopkins Medicine: Fourteenth Annual Current Topics in Gastrointestinal and Liver Pathology HER2 testing for gastroesophageal adenocarcinomas	Baltimore, MD
2014	Johns Hopkins Medicine: Fourteenth Annual Current Topics in Gastrointestinal and Liver Pathology Moderator, Panel discussion HER2 testing: Multi-institutional perspectives	Baltimore, MD
2015	GEN: Genetic Engineering and Biotechnology News Making whole genome sequencing a prime time clinical practice	Webinar
2015	Fourteenth Spring Seminar of the Korean Pathologists Association of North America Advanced molecular diagnostics in gastrointestinal pathology	Boston, MA
2015	American Association for Clinical Chemistry Annual Meeting Symposium: From In Vitro to In Vivo Diagnostics: Are We Moving into the Body with Diagnostics?	Atlanta, GA

	Nanotechnology in the clinical laboratory: Standards and emerging regulatory issues	
2015	Johns Hopkins Medicine: Fifteenth Annual Current Topics in Gastrointestinal and Liver Pathology Genomic medicine for gastrointestinal malignancies	Baltimore, MD
2016	American Association for Clinical Chemistry Annual Meeting Short Course: The Genomic Testing Revolution: An Interactive Workshop With Case Examples Whole exome sequencing	Philadelphia, PA
2016	Johns Hopkins Medicine: Sixteenth Annual Current Topics in Gastrointestinal and Liver Pathology Genomic test interpretation for the gastrointestinal surgical pathologist	Baltimore, MD
2017	American Association for Clinical Chemistry Annual Meeting Moderator of Scientific Session: Is bigger always better? Pros and cons of targeted vs comprehensive genetic testing	San Diego, CA
2017	American Association for Clinical Chemistry Annual Meeting Scientific Session: The Genomic Testing Revolution: An Interactive Workshop With Case Examples Whole exome sequencing	San Diego, CA
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
2017	Johns Hopkins Medicine: 17th Annual Current Topics in Gastrointestinal and Liver Pathology Genomic test interpretation for the gastrointestinal surgical pathologist	Baltimore, MD
2017	Johns Hopkins Medicine: 17th Annual Current Topics in Gastrointestinal and Liver Pathology Molecular pathology of colon cancer	Baltimore, MD
2018	Johns Hopkins Medicine: 18th Annual Current Topics in Gastrointestinal and Liver Pathology Genomic case studies for the gastrointestinal surgical pathologist	Baltimore, MD
2018	Johns Hopkins Medicine: 18th Annual Current Topics in Gastrointestinal and Liver Pathology Hot topics in gastrointestinal molecular pathology	Baltimore, MD
2019	Johns Hopkins Hospital Your DNA could imprison your child: Consumer genetics and law enforcement (3/13)	Baltimore, MD
2019	2019 KOPANA 18 <sup>th</sup> Spring Seminar Genomic pathology for surgical pathologists	National Harbor, MD
2019	Johns Hopkins Medicine: 19th Annual Current Topics in Gastrointestinal and Liver Pathology Hot topics in gastrointestinal molecular pathology	Baltimore, MD

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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)
2020	Johns Hopkins Medicine: 20 <sup>th</sup> Annual Current Topics in Gastrointestinal and Liver Pathology COVID-19 Clinical Laboratory Testing (8/29)	Baltimore, MD
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	American Association for Clinical Chemistry Annual Meeting Scientific Session: Laboratory Consultations in Genomic Medicine: Case Based Learning Speaker and Moderator (9/27)	Atlanta, GA (Virtual Presentation)
2021	Memorial Healthcare System Clinical genomic testing in a pediatric health system (11/18)	Miami, FL (Virtual Presentation)
2021	Johns Hopkins Medicine: 21 <sup>st</sup> Annual Current Topics in Gastrointestinal and Liver Pathology Clinical applications of cell-free DNA in gastrointestinal malignancies (11/20)	Baltimore, MD (Virtual Presentation)
2022	GIPS e-Learning Forum Eosinophilic esophagitis: Reporting subepithelial fibrosis (6/22)	Virtual Meeting
2022	Glut1 Deficiency Foundation 2 <sup>nd</sup> Annual Scientific Meeting Identification of GLUT1 activating compounds in a mouse model (7/12)	Virtual Meeting
<u>Regional/Local</u>		
2011	1 <sup>st</sup> 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

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2012	5 <sup>th</sup> 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 <sup>th</sup> Annual Children's Medical Center Transfusion & Laboratory Medicine Conference: Management of referral testing	Dallas, TX
2013	29 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> Annual Transfusion and Laboratory Medicine Conference Direct-to-consumer genetic tests and criminal surveillance (2/15/19)	Dallas, TX
2020	13 <sup>th</sup> 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 <sup>th</sup> 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	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, <b>Park J</b> , 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, <b>Park J</b> , 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, <b>Park J</b> , Schulz S. (2009) Detection of CDX2 expression. U.S. Patent No. 7,485,422
5. Waldman SA, <b>Park J</b> , 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, <b>Park J</b> , 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, <b>Park J</b> , 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 <b>Park JY</b> . (2011) Nanostructures that provide a modified nanoenvironment for the enhancement of luminescence. U.S. Patent No. 7,879,575
9. Kricka LJ and <b>Park JY</b> . (2011) Nanostructure enhanced luminescent devices. U.S. Patent No. 7,919,019
10. Waldman SA, <b>Park J</b> , 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, <b>Park J</b> , Schulz S, Wolfe H, Lubbe W. (2012) Use of GCC ligands. U.S. Patent No. 8,206,704
12. Waldman SA, <b>Park J</b> , 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, <b>Park J</b> , Schulz S. (2015) Compositions and methods for identifying and targeting cancer cells of alimentary canal origin. U.S. Patent No. 9,429,576
14. Waldman SA, <b>Park J</b> , Schulz S. (2017) Compositions and methods for identifying and targeting cancer cells of alimentary canal origin. U.S. Patent Application 20170049869 (15/249291)
15. Gerber DE, Wakeland E, Li Q, Khan S, Park JY, Luo X, Xie Y. (2018) Prediction and treatment of immunotherapeutic toxicity. U.S. Patent Application 2018/018594. WO/2018/156448
16. 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

<b>Clinical Laboratory Test Development &amp; Validation (asterisk indicates a novel test or first of kind)</b>
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: <ul style="list-style-type: none"> <li>• Oncology Targeted Sequencing (25 gene, next-generation sequencing panel) (2014)</li> <li>• Epilepsy Sequencing Test (134 gene, next-generation sequencing panel) (2015)</li> <li>• Neuromuscular Disorders (125 genes) (2016)</li> </ul>

- 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)

**Service to the Community**

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

**Bibliography**

**Peer-Reviewed Publications**

Original Research Articles

1.	Waldman SA, Barber M, Pearlman J, <b>Park J</b> , 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
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3.	Pearlman J, Prawer S, Barber M, Parkinson SJ, Schulz S, <b>Park J</b> , 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.	<b>Park J</b> , 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, <b>Park J</b> , 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*, <b>Park J*</b> , 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, <b>Park J</b> , 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
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10.	Kricka LJ, <b>Park JY</b> , Senior MB, Fontanilla R. Processing controls in blood collection tubes reveals interference. <i>Clin Chem</i> . 2005 Dec;51(12):2422-2423
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12.	<b>Park JY</b> , Narayan SB, Bennett MJ. Molecular assay for detection of the common carnitine palmitoyltransferase 1A 1436(C>T) mutation. <i>Clin Chem Lab Med</i> . 2006 Sep;44(9):1090-1091
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14.	Mark SS, Stolper SI, Baratti C, <b>Park JY</b> , Kricka LJ. Biofunctionalization of aqueous dispersed, alumina membrane-templated polymer nanorods for use in enzymatic chemiluminescence assays. <i>Colloids Surf. B: Biointerfaces</i> . 2008 Sep;65(2):230-8
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19.	<b>Park JY</b> , Cornish TC, Lam-Himlin D, Shi C, Montgomery EA. Gastric lesions in patients with autoimmune metaplastic atrophic gastritis (AMAG) in a tertiary care setting. <i>Am J Surg Pathol</i> . 2010 Nov;34(11):1591-8
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Clinical Practice Guidelines: None

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