

Curriculum vitae

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Place of Birth: Lima, Peru

Education

Year	Degree	Field of Study	Institution
4/1986-3/1994	M.D.	Medicine	Cayetano Heredia University, Lima, Peru
4/1988-3/1992		Science and Philosophy	Cayetano Heredia University, Lima, Peru
1/2012-5/2013	Ph.D.	Medical Sciences - <i>Molecular Genetics</i>	University of Groningen, Groningen, The Netherlands

Postdoctoral and Other Training

Years	Titles	Specialty/Discipline	Institution
7/1995-6/1998	Residency	Internal Medicine	UT Southwestern Medical Center
7/1998-7/2001	Fellowship	Gastroenterology	University of Michigan Medical School
3/2000-7/2001	Research Fellowship	Immunology <i>Mentor: Gary Nabel</i>	Vaccine Research Center, NIH
5/2002-9/2004	Research Fellowship	Immunology <i>Mentor: Colin Duckett</i>	University of Michigan Medical School
12/2012-12/2013	LEAD program	Academic leadership	UT Southwestern Medical Center

Current Licensure and Certification

Licensure

2002-2008 State of Michigan Medical License
2008- State of Texas Medical License

Board and Other Certification

1994 USMLE Steps 1 and 2
1995 ECFMG Accreditation, Certificate Number 0-521-098-4
1998 USMLE Step 3
1999 and 2011 Board Certified in Internal Medicine, Candidate No. 187747
2002 and 2011 Board Certified in Gastroenterology, Candidate No. 187747

Honors and Awards

Year	Name of Honor/Award	Awarding Organization
1994	Valedictorian of Medical School Class	Cayetano Heredia University
1998	John S. Miller Award for Outstanding Performance as a House Officer	UT Southwestern Medical Center, Department of Internal Medicine
2003	AGA Research Scholar Award	Foundation for Digestive Health and Nutrition, American Gastroenterological Association (AGA)
2005	Research Excellence in GI and Liver (REGAL) Award	University of Kansas Medical Center
2008	Disease Oriented Research Scholar (DOCS) Award	UT Southwestern Medical Center
2010	Helmsley Scholar	Crohn's and Colitis Foundation (CCF)
2012	Elected Member	American Society for Clinical Investigation
2017	Physician of the Year	CCF, North Texas Chapter

Faculty Academic Appointments

Year(s)	Academic Title	Department	Academic Institution
2002-2004	Lecturer	Internal Medicine	University of Michigan Medical School
2004-2008	Assistant Professor	Internal Medicine	University of Michigan Medical School
2008-2010	Assistant Professor	Internal Medicine, and Molecular Biology	UT Southwestern Medical Center
2010-2017	Associate Professor with Tenure	Internal Medicine, and Molecular Biology	UT Southwestern Medical Center
2017-	Professor with Tenure	Internal Medicine, and Molecular Biology	UT Southwestern Medical Center

Appointments at Hospitals/Affiliated Institutions

<u>Past</u>			
Year(s)	Position Title	Department/Division	Institution
2002-2008	Staff Physician	Internal Medicine / Gastroenterology	University of Michigan Medical Center Ann Arbor VA Medical Center
<u>Current</u>			
2008-	Staff Physician	Internal Medicine / Digestive & Liver Diseases	University Hospitals at UT Southwestern Medical Center Parkland Health and Hospital System

Other Professional Positions

None

Major Administrative/Leadership Positions

Year(s)	Position Title	Institution
2011-	Program Director, UT Gastroenterology / Hepatology Research Training Program	UT Southwestern Medical Center
2016-	Chief, Division of Digestive and Liver Diseases	UT Southwestern Medical Center
2016-	Director, Pollock Family Center for Research in Inflammatory Bowel Disease	UT Southwestern Medical Center

Committee Service (*Member, unless noted otherwise*)

Year(s)	Name of Committee	Institution/Organization
<u>UT Southwestern</u>		
2008-2012	GI Fellowship Research Committee	Division of Digestive & Liver Diseases
2011-2012	Institutional Biosafety Committee and Biological and Chemical Safety Advisory Committee	Environmental Health and Safety
2012-2014	Chair, Faculty Mentorship Committee for Vincent Aguirre (Assistant Professor)	Department of Internal Medicine
2014-2015	Search Committee for Chief of Nephrology	Department of Internal Medicine
2012-2016	GI Fellowship Curriculum Committee	Division of Digestive & Liver Diseases
2012-2015	Chair, Faculty Mentorship Committee for Yonas Getachew (Assistant Professor)	Department of Internal Medicine
2014-2016	Chair, Faculty Mentorship Committee for Luke Engelking (Assistant Professor)	Department of Internal Medicine
2015-2016	Chair, Faculty Mentorship Committee for Emre Turer (Assistant Professor)	Department of Internal Medicine
2018-	Physician-Scientist Incentive Compensation Plan Committee	Department of Internal Medicine
2018-	Search Committee for Chief of Pediatric Gastroenterology	Department of Pediatrics
<u>Hospital</u>		
2011-2013	Chair, Pharmacy & Therapeutics GI Subcommittee	Parkland Memorial Hospital
2014-2015	Pharmacy & Therapeutics GI Subcommittee	Parkland Memorial Hospital
<u>State/Regional</u>		
2013-	Medical Advisory Committee	CCF, North Texas Chapter

National/International

None other than professional societies

Professional Societies

Dates	Society membership
1998-2005	American Society of Gastrointestinal Endoscopy (ASGE)
1999-2005	American Society of Internal Medicine (ASIM)
1999-2014	American College of Gastroenterology (ACG)
2006-2016	Gastroenterology Research Group (GRG)
1999-	American Gastroenterological Association (AGA)
2012-	American Society for Clinical Investigation (ASCI)
2014-	American Society for Cell Biology (ASCB)
2014-	American Association for the Study of Liver Diseases (AASLD)
Dates	Committee service (<i>Member, unless noted otherwise</i>)
2012-2015	Diversity Committee, AGA
2014-2016	Future Leaders Program AGA, <i>Advisory Board Member</i>
2015-2018	Research Policy Committee, AGA
2018-	Society for Target and Drug Discovery, <i>Board Member</i>
Dates	Fellowships
2016	AGA Fellow (AGAF)

Grant Review Activities

Year(s)	Name of Review Committee	Organization
2006-2008	Michigan Gut Peptide Research Center, review panel member	University of Michigan
2007-2008	Michigan Comprehensive Cancer Center, review panel member	University of Michigan
2007	The Marsden Fund, Ad Hoc reviewer	The Royal Society of New Zealand
2009	RC1 Challenge grants, Ad Hoc reviewer	NIH
2010	Investigator Awards, Ad Hoc reviewer	The Wellcome Trust, United Kingdom
2013-2017	Research Fellowship and Career Development Awards Panel, review panel member	CCF
2014	Investigator Awards, Ad Hoc reviewer	Medical Research Council (MRC), United Kingdom
2015-2018	Research Awards Panel, review panel member and Vice Chair of the Panel (2018)	AGA

2016	Special Emphasis Panel, Program Project evaluation, ZDK1 GRB-8 (M1), Ad Hoc reviewer	NIH
2017	Special Emphasis Panel, Fellowships in Digestive Diseases and Nutrition, ZDK1 GRB-7 (O2), Ad Hoc reviewer	NIH
2018	Integrative Nutrition and Metabolic Processes (INMP) Study Section, Ad Hoc reviewer	NIH

Editorial Activities

Year(s)	Journal Name
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Editor/Associate Editor

None

Editorial Board

None

Ad Hoc Reviewer

American Journal of Pathology, Blood, BMC Cancer, Cancer Discovery, Cell Death and Differentiation, Cell Cycle, Cellular and Molecular Life Sciences, Developmental Cell, Disease Models & Mechanisms, EMBO Reports, Gastroenterology, Hepatology, Journal of the American Society of Nephrology, Journal of Cellular Physiology, Journal of Clinical Investigation, Journal of Molecular Cell Biology, Journal of Molecular Cancer Research, Molecular and Cellular Biology, Molecular and Cellular Proteomics, Molecular Biology of the Cell, Molecular Medicine, Nature Protocols, Nucleic Acids Research, Oncogene, Obesity, Plos One, PNAS, Trends in Biochemical Sciences, etc.

Grant Support

Present

- 1) NIH / NIDDK - R01DK073639
 Role of the CCC complex in immune function
 Role: Principal Investigator
 04/01/17 - 02/28/21 Total direct costs \$900,000
- 2) NIH / NIDDK - R01DK107733
 Regulation of Copper Homeostasis by COMMD proteins
 Role: Principal Investigator - Contact (D. Billadeau, Co-PI)
 08/01/16 - 07/31/21 Total direct costs \$1,678,223
- 3) NIH / NIDDK - K01DK106346
 Altered endosomal protein sorting in the pathogenesis of hepatocellular carcinoma
 Role: Mentor (PI: A. Singla)
 07/01/15 - 06/30/20 Total direct costs \$349,056
- 4) NIH / NIDDK - T32DK007745
 UT Gastroenterology / Hepatology Research Training Program
 Role: Program Director

- 06/01/17 - 05/31/22 Total direct costs \$1,521,245
- 5) American Cancer Society (ACS) - RSG-17-048-01
 Manipulation of the Gut Microbiota to Prevent Colitis-Associated Cancer
 Role: Co-Investigator (PI: S. Winter)
 07/01/17 - 06/31/21 Total direct costs \$792,000

Past

- 6) NIH / NIDDK - R01DK073639
 Control of NF- κ B and inflammation by COMMD proteins
 Role: Principal Investigator
 03/01/12 - 02/28/17 Total direct costs \$868,000
- 7) CPRIT (Cancer Prevention & Research Institute of Texas) - RP130409
 COMMD1 and the Control of Tumor Invasion
 Role: Principal Investigator
 06/01/13 - 11/30/16 Total direct costs \$771,686
- 8) NIH / NIAID - R56AI113274
 NF- κ B Signaling Insights from a Rare X-linked Immunodeficiency Syndrome
 Role: Co-Principal Investigator - Contact (A. Zinn, Co-PI)
 09/01/14 - 8/31/16 Total direct costs \$250,000
- 9) CCFA (Crohn's & Colitis Found. America) - Senior Research Award # 2737
 COMMD Proteins and the Regulation of Inflammation in IBD
 Role: Principal Investigator
 07/01/10 - 06/30/13 Total direct costs \$351,000
- 10) BSF (Bi-national Science Foundation) - Start-up grant
 Decreased COMMD Gene Expression in Inflammatory Bowel Disease
 Role: Co-Investigator (PI: Gluck)
 09/01/10 - 08/31/12 Total direct costs \$100,000
- 11) NIH / NIDDK - R01 DK073639
 Control of NF- κ B and inflammation by COMMD proteins
 Role: Principal Investigator
 02/01/07 - 01/31/12 Total direct costs \$557,406
- 12) UTSW - Disease Oriented Clinical Scholar's Program
 COMMD proteins and the inflammatory response in IBD
 Role: Principal Investigator
 09/01/08 - 08/30/11 Total direct costs \$900,000
- 13) VERAM / VA (Veterans Affairs) - Pilot project
 Role of JM1 in the regulation of the NF- κ B transcription factor
 Role: Principal Investigator
 02/01/08 - 01/31/09 Total direct costs \$25,000
- 14) CCFA (Crohn's & Colitis Foundation of America) - Research Fellowship Award

- Role of COMMD proteins in Inflammatory Bowel Disease
 Role: Mentor. (PI: Maine)
 07/01/07 - 12/31/10 Total direct costs \$162,000
- 15) CCFA (Crohn's & Colitis Foundation of America) - Senior Research Award
 Role of COMMD proteins in Inflammatory Bowel Disease
 Role: Principal Investigator
 07/01/06 - 06/30/07 Total direct costs \$130,000
- 16) Veterans Affairs - Merit Review Entry Program
 Regulation of Cell Function by the Copper Metabolism Gene COMMD1/MURR1
 Role: Principal Investigator
 10/01/04 - 09/30/07 Total direct costs \$165,000
- 17) VERAM / VA (Veterans Affairs) - Pilot project
 Characterization of the inhibitory properties of MURR1 on the NF-κB pathway
 Role: Principal Investigator
 05/01/04 - 04/30/05 Total direct costs \$25,000
- 18) Foundation for Digestive Health and Nutrition - AGA Research Scholar Award
 The roles of XIAP and its interacting partner MURR1 in copper homeostasis
 Role: Principal Investigator
 07/01/03 - 06/30/06 Total direct costs \$195,000
- 19) Michigan Gut Peptide Research Center - Pilot Feasibility Project
 Characterization of a novel partner of XIAP
 Role: Principal Investigator
 09/01/01 - 06/30/02 Total direct costs \$20,000

Clinical Trials Activities

Present

- STU 112014-036 X-linked Reticulate Pigmentary Disorder (PI: Zinn, Co-investigator: Burstein)
- STU 112010-130 Registry and Biorepository for the study of Inflammatory Bowel Disease (PI: Kwon, Co-investigator: Burstein)
- STU 082015-016 Histopathologic Features of Gastrointestinal Diseases and their Association with Patient Outcomes (PI: Gopal, Co-investigator: Burstein)
- STU 082014-097 Clinical characteristics of early onset inflammatory bowel disease (PI: Burstein)

Past

- STU 062010-020 Nuclei Acid, Serum and Tissue Repository for the Study of Gastrointestinal Diseases (PI: Burstein)
- STU 012013-048 Are there significant racial differences in response to therapies in inflammatory bowel disease (PI: Ahmed, Co-Investigator: Burstein)
- STU 112010-098 DNA Repository for Growth Disorders (PI: Zinn, Co-Investigator: Burstein)
- STU 122011-002 The Effect of Obesity on Disease Outcomes in IBD (PI: Flores, Co-Investigator / Mentor: Burstein)

Teaching and Training Activities

Year(s)	Activity
<u>Medical and graduate school didactic and small group teaching</u>	
2002-2008	<i>Inpatient teaching of Internal Medicine:</i> Medical Students and Internal Medicine residents, Internal Medicine inpatient service at the Ann Arbor VA Medical Center, Ann Arbor, Michigan
2002-	<i>Inpatient teaching of Gastroenterology:</i> Medical Students, Internal Medicine Residents and GI Fellows, Gastroenterology Consult Services at the Ann Arbor VA Medical Center (2002-2008), Parkland Memorial Hospital (2008-present), and Clements University Hospital (2015-present)
2002-	<i>Outpatient teaching of Gastroenterology:</i> GI Fellows and Internal Medicine residents, Gastroenterology Clinics at the University of Michigan Medical Center (2002 and 2008), at the Ann Arbor VA Medical Center (2002-2008), at Parkland Memorial Hospital (2008-present), and at UT Digestive and Liver Diseases Clinic (2015-present)
2002-	<i>Endoscopy Training:</i> GI fellows and surgery residents, University of Michigan Medical Center (2002), Ann Arbor VA Medical Center (2002-2008), Parkland Memorial Hospital (2008-present), and Clements University Hospital (2015-present)
2002-2008	<i>Noon conference series</i> for Internal Medicine Residents and Medical Students at the Ann Arbor VA Medical Center, Ann Arbor, Michigan
2005, 2008	<i>Gastroenterology Sequence</i> , Second year medical school curriculum, Small Group teaching sessions. University of Michigan
2006-2008	<i>Quantitative Physiology</i> 419/519, Lectures in GI Physiology and Energy Metabolism. Graduate level Biomedical Engineering course, University of Michigan.
2010-2016	<i>Clinical Immunology</i> , Lectures on Mucosal Immune Disorders. Graduate School of Biomedical Sciences, UT Southwestern Medical Center.
2012-	<i>Clinical GI Fellowship Core Curriculum Program</i> , Lectures on IBD pathogenesis, gut immunology, basics of molecular biology, GI cancer syndromes, and others, UT Southwestern Medical Center.
2013-	<i>Responsible Conduct of Research</i> , small group session, UT Southwestern Medical Center
2015-	<i>Integrated Medicine Course on Gastrointestinal System and Nutrition</i> (MS2), Course Co-director (2015-2016) and Lecturer (2017-present), UT Southwestern Medical Center.
<u>Dissertation committees</u>	
2006-2009	Graham Brady. Doctoral Program in Molecular and Cellular Pathology, University of Michigan.
2006-2008	Rebecca Csomos. Doctoral Program in Molecular and Cellular Pathology, University of Michigan.
2014-2017	Elise Burger. Doctoral Program in Immunology, UT Southwestern Medical Center.
2015-	William McAlpine. Doctoral Program in Immunology, UT Southwestern Medical Center.
2016-	Caroline Gillis. Doctoral Program in Molecular Microbiology, UT Southwestern Medical Center.

Qualifying examination committees

- 2014 Barrett Updegraff. Genetics and Development Graduate Program, UT Southwestern Medical Center. Chair of the QE Committee.
- 2017 Sushobhna Batra. Immunology Graduate Program, UT Southwestern Medical Center. Member the QE Committee.
- 2018 Andrew Chung. Genes, Development and Disease Graduate Program, UT Southwestern Medical Center. Member the QE Committee.

Committees concerned with medical and graduate student education

None

Graduate student rotations

None

Undergraduate student rotations

- 2006 Victoria Sultani, Wellesley College, Wellesley, MA.
- 2007 Mark Fogel, University of Michigan, Ann Arbor, MI.
- 2008 Alisa Sumkin, University of Michigan, Ann Arbor, MI.
- 2009-2011 Mohammad Yousef, UT Arlington, Arlington, TX.
- 2010 Reid Weisberg, St. Marks High School, Dallas, TX.
- 2010 Mary Lovelace, UT Dallas, Richardson, TX.
- 2012 Nick Norris, Baylor University, Waco, TX.
- 2013 Margaret Koenecke, Kenyon College, Gambier, OH
- 2013 Kevin Chow, Coppell High School, Copper, TX

Medical student rotations

- 2008 Javier Villafuerte, *Visiting student* from Cayetano Heredia University, Lima - Peru
- 2013, 2016 Ernesto Llano, UT Southwestern Medical Center, Dallas, TX
- 2015 Nick Norris, UT Southwestern Medical Center, Dallas, TX
- 2017 Meera Iyengar, UT Southwestern Medical Center, Dallas, TX
- 2018 Jacob Welch, UT Southwestern Medical Center, Dallas, TX

Medical resident research rotations

- 2006 Gopakumar Iyer, M.D.
Current position: Assistant Attending at Memorial Sloan Kettering Cancer Center. New York, NY.
- 2010 Nathalie Urrunaga, M.D.
Current position: Assistant Professor, Department of Medicine, Division of Gastroenterology and Hepatology, University of Maryland, Baltimore, Maryland.
- 2013 Anh Nguyen, M.D.

Current position: Assistant Professor, Department of Medicine, Division of Digestive & Liver Diseases, UT Southwestern Medical Center. Dallas, TX

Gastroenterology fellow research rotations

2011-2012 Avegail Flores, M.D.

Current position: Assistant Professor, Department of Medicine, Division of Gastroenterology, Washington University in St. Louis, St. Louis, Missouri.

Graduate student trainees

2006-2008 Nathan Gluck, M.D., Ph.D. *Co-mentor.* Doctoral Program in Biochemistry, Hebrew University in Jerusalem – Israel.

Current position: Staff Physician. Sourasky Tel Aviv Medical Center. Senior Lecturer, Tel Aviv University School of Medicine – Israel.

2018- Qi Liu. *Co-mentor.* Doctoral Program in Molecular Biology, Sichuan University, Chengdu – China.

Postgraduate medical education (graduate & continuing medical education)

2009 Advances in IBD – CME conference organized by UT Southwestern Medical Center. Presenter (Inflammation and IBD: How does it all start?)

Postdoctoral trainees

2005-2007 Gabriel Maine, Ph.D.

Current position: Associate Professor, Department of Pathology. Oakland University School of Medicine. Rochester, Michigan. Director, Immunophenotyping Laboratory. Department of Clinical Pathology. Beaumont Hospital. Royal Oak, Michigan.

2005-2013 Xicheng Mao, Ph.D.

Current position: Quality Intelligence Analyst. UT Southwestern Medical Center. Dallas, Texas.

2006-2007 Aparna Repaka, M.D.

Current position: Assistant Professor, Gastroenterology Section at VA Boston Healthcare System, Boston, Massachusetts.

2008-2009 Iram Zaidi, Ph.D.

Current position: Unknown.

2010-2012 Lillienne Chan, M.D.

Current position: Private practice. Dallas, Texas.

2007-2013 Haiying Li, Ph.D.

Current position: Grants and Contracts Specialist, Office of Technology Development. UT Southwestern Medical Center. Dallas, Texas.

2012-2015 Amika Singla, Ph.D.

Current position: Instructor, Department of Internal Medicine, Division of Digestive & Liver Diseases. UT Southwestern Medical Center. Dallas, Texas.

- 2010-2014 Peter Starokadomskyy, Ph.D.
Current position: Senior Research Scientist, Department of Internal Medicine, Division of Digestive & Liver Diseases. UT Southwestern Medical Center. Dallas, Texas.
- 2013-2015 Luis Sifuentes-Dominguez, M.D.
Current position: Instructor, Department of Pediatrics, Division of Gastroenterology. UT Southwestern Medical Center. Dallas, Texas.
- 2014-2015 Linda Geng, Ph.D.
Current position: Chief Resident, Department of Internal Medicine, Stanford University, Palo Alto, California
- 2014-2016 Rebecca Faulkner, Ph.D.
Current position: Maternity leave
- 2015-2016 Kayci Huff-Hardy, M.D., Ph.D.
Current position: Fellow, Department of Internal Medicine, Division of Digestive and Liver Diseases, UT Southwestern Medical Center, Dallas, Texas
- 2013-2016 Naoteru Miyata, M.D., Ph.D.
Current position: Staff Physician, Department of Gastroenterology, International University of Health and Welfare, Mita Hospital. Tokyo, Japan
- 2016 Da Jia, Ph.D.
Current position: Professor, Department of Pharmacology and Therapeutics, Sichuan University, Chengdu – China.
- 2014- Lindsey Morris, Ph.D.
2016- Qing Chen, M.D.
- Visiting Professors ('sabbatical year')
- 2011-2012 Fiona McDonald, Ph.D.
Current position: Associate Professor and Chair, Department of Physiology. University of Otago, New Zealand.

Invited Lectures

Year	Title	Location
<u>International</u>		
2003	XIAP regulates MURR1, a factor involved in copper homeostasis	CSHL Meeting, Cold Spring Harbor, New York – USA
2004	COMMD proteins: a novel family of NF- κ B inhibitors	3 rd Japan GRG/AGA Symposium, Hakone – Japan
2005	Apoptosis en el tracto intestinal: muerte celular como mecanismo homeostatico	Cayetano Heredia University, Lima – Peru
2006	COMMD Proteins Inhibit κ B-Mediated Transcription by Promoting the Ubiquitination of NF- κ B Subunits through a Cullin E3 Ligase	Keystone Symposium, Banff – Canada

2006	Regulation of NF- κ B by COMMD proteins	University of Utrecht, Utrecht – The Netherlands
2009	Novel architecture of Cullin-Ring ligases: lessons from studying NF- κ B ubiquitination	University of Magdeburg, Magdeburg – Germany
2009	Novel architecture of Cullin-Ring ligases: lessons from studying NF- κ B ubiquitination	Hebrew University, Jerusalem – Israel
2010	COMMD proteins: regulators of NF- κ B and beyond	University of Groningen, Groningen – The Netherlands
2012	COMMD proteins and hypoxic stress	Keystone Symposium, Banff – Canada
2012	Termination of NF- κ B responses by ubiquitin-mediated degradation - Role of novel genes in IBD pathogenesis	GI Research Academy Meeting, Tokyo – Japan
2012	Novel developments in IBD pathogenesis and treatment	23 rd Peruvian Congress of Digestive Diseases, Lima – Peru
2012	Role of COMMD1 in IBD pathogenesis	Tel Aviv Sourasky Medical Center, Tel Aviv – Israel
2013	CCDC22 and Immune regulation	University of Giessen, Giessen – Germany
2016	An inborn error in a DNA polymerase reveals a role for RNA:DNA hybrids in interferon signaling	University of Giessen, Giessen – Germany
2016	COMMD1 and the regulation of endosomal protein trafficking: copper transporters and other targets	10 th International Copper Research Meeting, Sorrento – Italy
2017	RNA:DNA Hybrids and the Regulation of Anti-Viral Immunity	FASEB meeting: Signal Transduction in the Immune System, Snowmass, Colorado – USA
2018	RNA:DNA Hybrids and Antiviral Immunity	Annual meeting of the Society for Target and Drug Discovery, Chengdu – China

National

2004	MURR1: a regulator of copper metabolism and NF- κ B	University of Illinois at Chicago, Chicago, IL
2004	MURR1: a regulator of copper metabolism and NF- κ B	UT Southwestern Medical Center, Dallas, TX
2004	MURR1: a regulator of copper metabolism and NF- κ B	Washington University in Saint Louis, St. Louis, MO
2004	COMMD proteins: a novel family of NF- κ B inhibitors	Stanford University, Palo Alto, CA
2005	COMMD proteins: novel regulators of NF- κ B	University of Massachusetts, Worcester, MA
2005	COMMD proteins: novel regulators of NF- κ B	Vanderbilt University, Nashville, TN
2005	COMMD proteins: novel regulators of NF- κ B	UCSD, La Jolla, CA
2005	COMMD proteins: novel regulators of NF- κ B	University of Chicago, Chicago, IL

2005	Apoptotic pathways relevant to the GI tract	Digestive Disease Week, Chicago, IL
2005	Regulation of NF- κ B by COMMD proteins	University of Chicago, Chicago, IL
2005	Regulation of NF- κ B by COMMD proteins	Columbia University, New York, NY
2006	Regulation of NF- κ B by COMMD proteins	Tufts University, Boston, MA
2006	<i>Annual Gregory Gurtner Memorial Lecture:</i> Regulation of NF- κ B by COMMD proteins	Washington University in Saint Louis, St. Louis, MO
2007	COMMD proteins: COMMing to the Scene	University of Miami Miller School of Medicine, Miami, FL
2007	COMMD proteins: COMMing to the Scene	UT Southwestern Medical Center, Dallas, TX
2007	Tales of ubiquitination: NF- κ B inhibition by COMMD family members	Mount Sinai School of Medicine, New York, NY
2007	COMMD Proteins and the Ubiquitination Pathway	Johns Hopkins School of Medicine, Baltimore, MD
2008	The nuclear option: NF- κ B regulation through ubiquitination	Mayo Clinic, Rochester, MN
2009	Regulating NF- κ B through ubiquitination: new steps and new players	University of Texas at Austin, Austin, TX
2009	COMMD1: Regulation of NF- κ B and Inflammatory Responses	Wake Forest University School of Medicine, Winston-Salem, NC
2011	Putting out the fire: Signaling cascades to terminate NF- κ B and Inflammation	MetroHealth - Case Western Reserve University, Cleveland, OH
2012	Role of COMMD1 in IBD susceptibility through NF- κ B regulation	University of Colorado, Denver, CO
2016	Academic gastroenterology in the 21 st century: reflections of a physician-scientist	University of Alabama at Birmingham, Birmingham, AL
2016	Understanding pathologic inflammation and IBD in the genomic era	University of Michigan, Ann Arbor, MI
2016	Cytosolic RNA:DNA hybrids and the antiviral immune response	Mayo Clinic, Rochester, MN

Regional/Local

None

Technological and Other Scientific Innovations

Patents

None

Service to the Community

Year(s)	Role	Organization or institution
2007	Co-chair, Annual Campaign Event	Maimonides Society

	<i>Philanthropic group of local physicians in Washtenaw County, Michigan</i>	
2013-2014	Member of the Board <i>A local synagogue in Dallas</i>	Congregation Shaare Tefilla
2010-2016	Member, Board of Trustees Chair, Head Support and Evaluation Committee <i>Private school in Dallas providing services from pre-K to middle school</i>	Akiba Academy of Dallas
2010-	Member of the Board <i>A private foundation supporting care and research to benefit patients with Autism</i>	Autistic Care

Bibliography

Peer-Reviewed Publications

Original Research Articles

1. De Michelena MI, **Burstein E**, Lama JR, Vasquez JC. Paternal age as a risk factor for Down syndrome. *American Journal of Medical Genetics*, 45: 679-682 (1993). PMID: 8456845.
2. Ganesh L, **Burstein E**, Guha-Niyogi A, Louder M, Mascola J, Klomp LWJ, Wijmenga C, Duckett CS, Nabel GJ. The gene product Murr1 restricts HIV-1 replication in resting CD4⁺ lymphocytes. *Nature*, 426: 853-857 (2003). PMID: 14685242.
**Featured article, News & Views summary.
3. **Burstein E**, Ganesh L, Dick RD, Brewer GJ, van De Sluis B, Wilkinson J, Lewis J, Klomp LWJ, Wijmenga C, Nabel GJ, Duckett CS. A novel role for XIAP in copper homeostasis through regulation of MURR1. *EMBO Journal*, 23: 244-254 (2004). PMC1271669.
4. Steinman HA, **Burstein E**, Gosselin J, Pihan G, Duckett CS, Jones SN. An alternative splice form of Mdm2 induces p53-independent cell growth and tumorigenesis. *Journal of Biological Chemistry*, 279: 4877-4886 (2004). PMID: 14612455.
5. Lewis J, **Burstein E**, Birkey-Reffey S, Bratton SB, Roberts AB, Cohen GM, Duckett CS. Uncoupling of the signaling and caspase-inhibitory properties of XIAP. *Journal of Biological Chemistry*, 279: 9023-9029 (2004). PMID: 14701799.
6. Wilkinson JC, Richter BW, Wilkinson AS, **Burstein E**, Rumble JM, Balliu B, Duckett CS. VIAF: a conserved IAP interacting factor that modulates caspase activation. *Journal of Biological Chemistry*, 279: 51091-51099 (2004). PMID: 15371430.
7. Rudd BD, **Burstein E**, Duckett CS, Li X, Lukacs NW. Differential role for TLR3 in Respiratory Syncytial Virus-induced chemokine expression. *Journal of Virology*, 79: 3350-3357 (2005). PMID: 15731229.
8. **Burstein E**, Hoberg JE, Wilkinson AS, Rumble JM, Csomos RA, Komarck CM, Maine GN, Wilkinson JC, Mayo MW, Duckett CS. COMMD Proteins: a novel family of structural and functional homologs of MURR1. *Journal of Biological Chemistry*, 280: 22222-22232 (2005). PMID: 15799966.
9. Mufti AR[§], **Burstein E**[§], Csomos RA, Graf TCF, Wilkinson JC, Dick RD, Challa M, Son JK, Bratton SB, Su GL, Brewer GJ, Jakob U, Duckett CS. XIAP is copper binding protein

- deregulated in Wilson's disease and other copper toxicosis disorders. [§]Equal contributors. *Molecular Cell*, 21: 775-785 (2006). PMID: 16543147.
10. de Bie P, van de Sluis B, **Burstein E**, Duran K, Berger R, Duckett CS, Wijmenga C, Klomp LWJ. Characterization of COMMD protein-protein interactions in NF- κ B signalling. *Biochemical Journal*, 398: 63-71 (2006). PMC1525016.
 11. Maine GN, Mao X, Komarck CM, **Burstein E**. COMMD1 promotes the ubiquitination of NF- κ B subunits through a Cullin containing ubiquitin ligase. *EMBO Journal*, 26: 459-467 (2007). PMC1783443.
**Featured article.
 12. de Bie P, van de Sluis B, **Burstein E**, van de Berghe PVE, Muller P, Berger R, Gitlin JD, Wijmenga C, Klomp L. Distinct Wilson-disease mutations in ATP7B are associated with enhanced binding to COMMD1 and reduced stability of ATP7B. *Gastroenterology*, 133: 1316-1326 (2007). PMC2857755.
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