

Curriculum vitae

Date Prepared: July 20, 2023
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Education

Year	Degree (Honors)	Field of Study (Thesis advisor for PhDs)	Institution
9/84-6/88	A.B (magna cum laude)	Biology	Harvard College, Cambridge, MA
9/88-6/90	B.A. (2:1 Honors)	English Literature	Oxford University, Pembroke College, Oxford, England
9/90-6/96	M.D.	Medicine	Harvard Medical School, Boston, MA

Postdoctoral Training

Year(s)	Titles	Specialty/Discipline (Lab PI for postdoc research)	Institution
7/96-7/97	Intern	Pediatrics	Children's Hospital Boston
7/97-6/99	Resident	Pediatrics	Children's Hospital Boston
7/99-6/00	Chief Resident	Pediatrics	Children's Hospital Boston
7/00-6/04	Clinical Fellow	Pediatric Infectious Diseases	Children's Hospital Boston
7/00-6/04	Clinical Fellow	Pediatric Hematology/Oncology	Children's Hospital Boston Dana Farber Cancer Institute

Current Licensure and Certification

Licensure

8/09 - Texas Medical Board Full License

Board and Other Certification

11/04 - Board Certified in Pediatric Hematology/Oncology. Recertified 9/14.

8/05 - 7/22 Board Certified in Pediatric Infectious Diseases.

Honors and Awards

Year	Name of Honor/Award	Awarding Organization
9/88-6/90	Rhodes Scholarship	American Association of Rhodes Scholars
6/99	Senior Resident Teaching Award	Children’s Hospital Boston
6/99	Farley Fellowship Award	Children’s Hospital Boston
6/00	Charles A. Janeway Award	Children’s Hospital Boston
7/00-6/02	Glaser Pediatric Research Network Fellowship Award	Glaser Pediatric Research Network
6/03 – 4/08	NIH Loan Repayment Program Recipient	NIH
7/06-6/08	Eleanor and Miles Shore Scholar	Children’s Hospital Boston
11/10	Society for Pediatric Research, Member	Society for Pediatric Research
2/13-7/15	Basil O’Connor Research Award	March of Dimes
1/21 – 10/21	Texas Medical Center Accelerator for Cancer Therapeutics, Selected Member	Texas Medical Center, CPRIT

Faculty Academic Appointments

Year(s)	Academic Title	Department	Academic Institution
7/04 - 6/09	Instructor	Pediatrics	Harvard Medical School
7/09 - 8/17	Assistant Professor	Pediatrics and Microbiology	UTSW Medical Center (Employed by UTSW; Practice medicine at Children’s Medical Center)
9/17 -	Associate Professor	Pediatrics and Microbiology	UTSW Medical Center (Employed by UTSW; Practice medicine at Children’s Medical Center)

Appointments at Hospitals/Affiliated Institutions

<u>Past</u>

Year(s)	Position Title	Department/Division	Institution
7/04 - 6/09	Physician Staff	Hematology Oncology	Children's Hospital Boston
7/04 - 6/09	Physician Staff	Infectious Diseases	Children's Hospital Boston
7/04 - 6/09	Physician Staff	Pediatrics, Medicine	Dana Farber Cancer Institute
7/04 - 6/09	Physician Staff	Pediatric Infectious Diseases	Brigham & Women's Hospital
7/04 - 6/09	Physician Staff	Pediatric Infectious Diseases	Beth Israel Deaconess Medical Center

Current

Year(s)	Position Title	Department/Division	Institution
7/09 - 9/21	Director of Pediatric Hematopoietic Stem Cell Transplantation	Pediatrics, Hematology Oncology	Children's Health Dallas
10/21 -	Director of Cellular & ImmunoTherapeutics Program	Pediatrics, Hematology/Oncology	UTSW and Children's Health (Joint Pediatric Enterprise approved and funded)

Other Professional Positions

Year(s)	Position Title	Institution

Major Administrative/Leadership Positions

Year(s)	Position Title	Institution
7/09 - 9/21	Director of Pediatric Hematopoietic Stem Cell Transplantation	UTSW Medical Center and Children's Medical Center Dallas
10/21 -	Director of Pediatric Cellular & ImmunoTherapeutics Program	UTSW and Children's Health (JPE approved)
9/22 -	Associate Division Chief for Basic Science and Innovation	Pediatrics, Hematology/Oncology, UTSW Medical Center

Committee Service (*Member, unless noted otherwise*)

Year(s)	Name of Committee	Institution/Organization
<u>UTSW</u>		
5/23 -	Microbiology Chair Search Committee	UTSW Medical Center
<u>Hospital</u>		
8/09 -	Centers for Cancers and Blood Disorders Executive Committee	Children's Medical Center Dallas
12/09 -	Scholarship Oversight Committee, Hematology/Oncology Fellows	Children's Medical Center Dallas

9/10 – 6/17	Antimicrobial Stewardship Committee	Children’s Medical Center Dallas
<u>State/Regional</u>		
9/21 -	CPRIT Advisory Committee for Childhood Cancers	CPRIT
<u>National/International</u>		

Professional Societies

Dates	Society Name, member
9/03 -	American Society for Microbiology
9/09 -	Pediatric Bone Marrow Consortium
11/09 -	American Society for Blood and Marrow Transplantation
5/10 -	American Society of Hematology
11/10 -	Society for Pediatric Research
7/12 -	American Society for Pediatric Hematology/Oncology

Grant Review Activities

Year(s)	Name of Review Committee	Organization
6/12 -	CCRAC	Children’s Medical Center Dallas
2012 -	Ad Hoc	Department of Defense
2012 -	Ad Hoc	Burroughs Wellcome Fund
2013	NIAID Investigator Initiated Program Project Applications, ZAI1 RCU-I (S3)	NIH/NIAID
2018	Core 2018 Multi-Annual Thematic Research Programme Peer Review	Fonds National de la Recherche Luxembourg
2018	SEP-2 for Provocative Questions. ZCA1 SRB-5 (J2)	NIH/NCI
2019	Heart, Lung and Blood Program Project Study Section. HLBP	NIH/NHLBI
2019	Fellowship. Immunology and Immunotherapy. ZRG1 F09C-Q (20)	NIH/NCI
2019	NCI Program Project II (P01). ZCA1 RPRB-6 (J1)	NIH/NCI
2019	Fellowships: Cancer Immunology and Immunotherapy. ZRG1 F09C-Q(20)	NIH/NCI
2019 -	Ad Hoc	Italian Foundation for Cancer Research

2019	Mark Foundation for Cancer Research Aspire Award	The Mark Foundation for Cancer Research
March 2020	Fellowships: Cancer Immunology and Immunotherapy. ZRG1 F09C-Q(20)	NIH/NCI
July 2020	Fellowships: Cancer Immunology and Immunotherapy. ZRG1 F09C-Q(20)	NIH/NCI
November 2020	Fellowships: Cancer Immunology and Immunotherapy. ZRG1 F09C-Q(20)	NIH/NCI
2021-	Ad Hoc	Fondation pour la Recherche Medicale
2021	Drug Discovery and Mechanisms of Antimicrobial Resistance Study Section. DDR	NIH/NIAID
2022	Fellowships: Cancer Immunology and Immunotherapy. ZRG1 F09C-Q(20)	NIH/NCI
2022	CTSA K-Grant Class Mock Study Section	UTSW, CTSA
2023	Career Development Study Section (J). NCI-J	NIH/NCI
2023	Transplantation, Tolerance and Tumor Immunology Study Section (TTT)	NIH/NIAID
October 2023	Standing member, Interspecies Microbial and Interactions and Infections study section (IMII)	NIH/NIAID

Editorial Activities

Year(s)	Journal Name
<u>Editor/Associate Editor</u>	
8/16 -	Associate Editor, <i>Frontiers in Cellular and Infection Microbiology</i>
<u>Editorial Board</u>	
1/15 -	<i>Infection and Immunity</i>
<u>Ad Hoc Reviewer</u>	
7/09 -	<i>Pediatric Infectious Diseases Journal</i>
7/09 -	<i>Infection and Immunity</i>
7/09 -	<i>PLoS ONE</i>
7/09 -	<i>mBIO</i>
10/14-	<i>Blood</i>
10/14-	<i>Scientific Reports</i>
3/15-	<i>Biology of Blood and Marrow Transplantation</i>
11/15-	<i>PLoS Pathogens</i>
3/16-	<i>Journal of Parenteral and Enteral Nutrition</i>
11/15-	<i>Virulence</i>

7/17-	<i>Science</i>
10/17-	<i>Cell Host and Microbe</i>
6/18 -	<i>Nature Medicine</i>
9/18-	<i>Journal of Experimental Medicine</i>
11/18-	<i>Nature Communications</i>
3/19	<i>Microbiome</i>
4/19 -	<i>Science Translational Medicine</i>
9/19 -	<i>Gut</i>
1/20 -	<i>Clinical Infectious Diseases</i>
5/20 -	<i>Nature</i>
7/21 -	<i>Nature Microbiology</i>
1/22 -	<i>Journal for ImmunoTherapy of Cancer</i>
2/23 -	<i>Nature Cancer</i>

Grant Support

<u>Present</u>	<i>Grantor: NIH/NCI</i>
	<i>Title of Project: Role of the Gut Microbiota in Modulating Immune Checkpoint Inhibitor Therapy for Cancer</i>
	<i>Grant Number: 1R01CA231303-01</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator (Contact)</i>
	<i>Annual amount and date (direct costs only): \$501,912</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only): \$2,500,000; 9/1/19 – 8/31/24</i>
Present	<i>Grantor: NIH/NIAID</i>
	<i>Title of Project: Mentoring Patient Oriented Research in the Microbiome of Cancer and Stem Cell Transplant Patients</i>
	<i>Grant Number: K24AI150992</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$121,495</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only): \$607,475; 2/14/20 – 3/31/25</i>
Present	<i>Grantor: NIH/NIAID</i>
	<i>Title of Project: A novel bacterially-derived product to enhance immunity and response to immune checkpoint therapy</i>
	<i>Grant Number: R41AI170290-01</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$289,194</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only): 5/6/22-4/30/24</i>
<u>Present</u>	<i>Grantor: Novartis</i>
	<i>Title of Project: Role of Gut Microbiota in Modulating CAR-T Efficacy and Adverse Effects</i>

	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Grant Number:</i> CCTL019BUS02T
	<i>Annual amount and date (direct costs only):</i> \$160,436
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$320,872, Pending final contract, 7/1/20-6/30/23
<u>Present</u>	<i>Grantor:</i> NIH/NCI
	<i>Title of Project:</i> Modulating the PD-1/PD-L1 checkpoint to promote antitumor activity of HER2 CAR T cells in patients with sarcoma:
	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Investigator
	<i>Grant Number:</i> R01CA276884
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$2,093,075, 3/7/23-2/29/28
<u>Present</u>	<i>Grantor:</i> UTSW Kidney Cancer SPORE Pilot Grant Award
	<i>Title of Project:</i> Role of the Microbiome in Modulating Immune Checkpoint Inhibitor Therapy in Kidney Cancer Patients
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$25,000, 5/1/19-
<u>Present</u>	<i>Grantor:</i> UTSW Simmons Comprehensive Cancer Center, Early Onset Colorectal Cancer Pilot Grant
	<i>Title of Project:</i> Role of the Gut and Tumor Microbiome in Early Onset Colorectal Cancer
	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$75,000,
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
<u>Present</u>	<i>Grantor:</i> CPRIT
	<i>Title of Project:</i> Pediatric Cancer Data Core
	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Investigator
	<i>Annual amount and date (direct costs only):</i> \$10,000
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> 8/31/18-8/30/23
<u>Present</u>	<i>Grantor:</i> NIH/NIDDK 1R01DK115703-01, (Moe, Browning, Sakhaee),
	<i>Title of Project:</i> Origin of Excess Acid in Uric Acid Urolithiasis
	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Investigator
	<i>Annual amount and date (direct costs only):</i> \$
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> 9/5/19-6/30/24
<u>Present</u>	<i>Grantor:</i> UTSW-Rabin Medical Center Project Award
	<i>Title of Project:</i> Role of the microbiome in non-small cell lung carcinoma patients receiving cancer immunotherapy
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$ 150,000, 6/1/23-5/30/24

	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
<u>Pending</u>	<i>Grantor:</i> NIH/NIAID
	<i>Title of Project:</i> Understanding the molecular mechanisms regulating fungal colonization and disease in the mammalian intestinal niche
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Grant Number:</i> P01 AI179406
	<i>Annual amount and date (direct costs only):</i> \$
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$7,499,940, Impact Score 17; Awaiting final funding decision, council meeting in October 2023
<u>Past</u>	<i>Grantor:</i> Southwest National Primate Research Center Pilot Research Program
	<i>Title of Project:</i> Determining the safety of a novel gut microbiota therapy in non-human primates
	<i>Grant Number:</i> P51 OD011133
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$70,000
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$70,000, 5/1/22-4/30/23
<u>Past</u>	<i>Grantor:</i> NIH/NIAID
	<i>Title of Project:</i> <i>Candida albicans</i> Gastrointestinal Colonization and Dissemination
	<i>Grant Number:</i> 1R01AI123163-01A1
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$250,000
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$1,250,000; 9/28/16 – 8/31/22
<u>Past</u>	<i>Grantor:</i> Merck
	<i>Title of Project:</i> To test the efficacy of <i>Bacteroides thetaiotamicron</i> and <i>Faecalibacterium prausnitzii</i> in reversing antibiotic-induced hyporesponsiveness to anti-PD-1 therapy in syngeneic murine tumor models, and to investigate the mechanisms underlying the synergistic effect
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$145,748, 7/1/20-12/1/22
<u>Past</u>	<i>Grantor:</i> Children's Cancer Fund
	<i>Title of Project:</i> <i>Role of Gut Microbiota-Derived Metabolites in Modulating Cancer Immunotherapy</i>
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$150,000
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> 7/1/21-6/30/22
<u>Past</u>	<i>Grantor:</i> Curing Kids Cancer

	<i>Title of Project: Identifying Microbial Biomarkers to Predict CAR-T Therapy Outcomes</i>
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$50,000
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> 1/1/21-12/31/21
<u>Past</u>	<i>Grantor:</i> National Pediatric Cancer Foundation (Reed),
	<i>Title of Project:</i> The Sunshine Project
	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Investigator
	<i>Annual amount and date (direct costs only):</i> \$
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> 7/1/19-6/30/21
<u>Past</u>	<i>Grantor:</i> Children’s Medical Center Foundation
	<i>Title of Project:</i> Host Microbiomics Program
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$ 214,863
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$446,667; 11/1/17-10/31/20
<u>Past</u>	<i>Grantor:</i> Roberta I. and Norman L. Pollock Fund
	<i>Title of Project:</i> Protracted Colonization of Gastrointestinal Tract Leading to Disseminated Infection (<i>Candida albicans</i>)
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$25,000, 11/28/12-2020
<u>Past</u>	<i>Grantor:</i> Centers for Disease Control/ National Center for Emerging and Zoonotic Infectious Diseases – Phase II SBIR
	<i>Title of Project:</i> Highly Sensitive Electrochemical Assay to Monitor Gut Microbiome
	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$111,139
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$222,278, 9/5/17 – 3/4/2020
<u>Past</u>	<i>Grantor:</i> O’Donnell Brain Institute
	<i>Title of Project:</i> Identifying a Gut Microbiota Biomarker that Predicts Multiple Sclerosis Disease Status
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$150,000
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> 9/1/18-12/31/19
<u>Past</u>	<i>Grantor:</i> Klarman Foundation
	<i>Title of Project:</i> Biological Factors Related to Treatment-Refractory Anorexia Nervosa
	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Investigator
	<i>Annual amount and date (direct costs only):</i> \$28,958

	<i>Total amount of award (if multi-year) and dates (direct costs only): 9/1/17 – 8/31/19</i>

<u>Past</u>	<i>Grantor: NIH/NIDDK</i>
	<i>Title of Project: Role of Gut Bacteria and Renal Lipids in Obesity-Related Kidney Disease</i>
	<i>Grant Number: R01DK113377-01A1 (PI Bobulescu)</i>
	<i>Role (Principal Investigator, Co-Investigator): Co-Investigator</i>
	<i>Annual amount and date (direct costs only): \$10,000</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only): 8/1/17-5/31/21</i>
<u>Past</u>	<i>Grantor: Centers for Disease Control/ National Center for Emerging and Zoonotic Infectious Diseases – Phase I SBIR</i>
	<i>Title of Project: Highly Sensitive Electrochemical Assay to Monitor Gut Microbiome</i>
	<i>Role (Principal Investigator, Co-Investigator): Co-Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$20,700, 8/22/16- 5/21/17</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>

<u>Past</u>	<i>Grantor: UTSW Center for Translational Medicine (Service Package Grant)</i>
	<i>Title of Project: Antibiotic resistance development in the immunocompromised host</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$20,000, 1/1/16- 3/31/16</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>

<u>Past</u>	<i>Grantor: Children’s Clinical Research Advisory Committee (CCRAC), Children’s Medical Center of Dallas</i>
	<i>Title of Project: Candida albicans Gastrointestinal Colonization and Dissemination</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only): \$75,000, 7/25/15- 7/24/16</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>

<u>Past</u>	<i>Grantor: Children’s Clinical Research Advisory Committee (CCRAC), Children’s Medical Center of Dallas</i>
	<i>Title of Project: Role of Commensal Flora in the Development of Bacteremia and Fungemia in Cancer and Stem Cell Transplant Patients</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only): \$150,000, 12/1/12- 9/1/15</i>

<u>Past</u>	<i>Grantor: March of Dimes Basil O’Connor Starter Scholar Research Award</i>
	<i>Title of Project: Role of Candida albicans in the development of neonatal bacteremia</i>

	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$150,000, 2/1/13- 7/31/15
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
<u>Past</u>	<i>Grantor:</i> American Cancer Society Institutional Research Grant
	<i>Title of Project:</i> The Role of Commensal Microbial Flora in Acute Intestinal Graft Versus Host Disease
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$40,000, 1/1/11-12/31/11
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
<u>Past</u>	<i>Grantor:</i> NIH/NIAID, K08 Mentored Clinical Scientist Development Award
	<i>Title of Project:</i> Mucosal Colonization and dissemination of <i>P. aeruginosa</i>
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$575,000, 4/1/05-3/31/10
<u>Past</u>	<i>Grantor:</i> Global Probiotics Council
	<i>Title of Project:</i> Augmenting Mucosal Immunity to Prevent <i>Candida albicans</i> Infections
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$50,000, 7/1/12-6/30/13
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>
<u>Past</u>	<i>Grantor:</i> Regeneron Pharmaceuticals, Inc.
	<i>Title of Project:</i> Protracted Colonization of Gastrointestinal Tract Leading to Disseminated Infection (<i>Candida albicans</i>)
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i> \$20,147, 9/28/11-9/28/13
<u>Past</u>	<i>Grantor:</i> Children's Cancer Fund
	<i>Title of Project:</i> Role of Commensal Gut Flora in the Development of Bacteremia in Cancer Patients.
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator
	<i>Annual amount and date (direct costs only):</i> \$30,000, 10/1/12-9/30/13
	<i>Total amount of award (if multi-year) and dates (direct costs only):</i>

Clinical Trials Activities

<u>Past</u>	<i>Grantor:</i> CCRAC
	<i>Title of Project:</i> Role of Commensal Flora in the Development of Bacteremia and Fungemia in Cancer and Stem Cell Transplant Patients
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator

<u>Present</u>	<i>Grantor:</i> NIH/NIAID
	<i>Title of Project:</i> Bio-specimen Bank for Pediatric Oncology and Hematopoietic Stem Cell Transplantation Patients
	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Investigator

<u>Present</u>	<i>Grantor:</i> NIH/NCI
	<i>Title of Project:</i> Gut Microbiota and Immune Checkpoint Inhibitor Therapy in Cancer Patients
	<i>Role (Principal Investigator, Co-Investigator):</i> Co-Investigator

<u>Present</u>	<i>Grantor:</i> Novartis
	<i>Title of Project:</i> CCTL019BUS02T, Role of Gut Microbiota in Modulating CAR-T Efficacy and Adverse Effects
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator

<u>Present</u>	<i>Grantor:</i> NIH/NIAID
	<i>Title of Project:</i> Isolation of commensal gut microbiota from healthy humans
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator

<u>Present</u>	<i>Grantor:</i> NIH/NIAID
	<i>Title of Project:</i> Isolation of peripheral blood mononuclear cells from healthy humans
	<i>Role (Principal Investigator, Co-Investigator):</i> Principal Investigator

Teaching Activities

Year(s)	Activity
<u>Medical and graduate school didactic and small group teaching</u>	
8/09 - 7/13	Instructor, Molecular Pathogenesis of Infectious Disease Course, Molecular Microbiology Program, UTSW Medical Center
9/10 -	Instructor, Microbiology Course, UTSW Medical School
11/15	Instructor, Pulmonary Block, UTSW Medical School
4/14	Instructor, Immunology of Infectious Diseases, Immunology Program, UTSW Medical Center
2/14-6/14	Instructor, Molecular Microbiology Program, Journal Club, UTSW Medical Center

2/15	Instructor, Contemporary Topics in Microbiology, Molecular Microbiology Program, UTSW Medical Center
2/22 -	Instructor, Emerging Infectious Disease Course, Gut Microbiome and Human Health, UTSW Medical School
2/23-6/23	Instructor, Molecular Microbiology Program, Journal Club, UTSW Medical Center
Dissertation committees	
8/11 – 11/14	Carolyn Sturge, PhD Candidate, Yarovinsky Lab, Dept of Immunology, Immunology Graduate Program, UTSW Medical Center
2016 – 2019	Yusuf Tamer, PhD Candidate, Toprak Lab, Dept of Biophysics, Mechanisms of Disease and Translational Science
2018 – 2022	Garrett Overcast, PhD Candidate, Pasare Lab, Dept of Immunology, Immunology Graduate Program, UTSW Medical Center
2019 – present	Wesley Burford, PhD Candidate, Alto Lab, Department of Microbiology, Molecular Microbiology Graduate Program, UTSW Medical Center
2019- 2020	Virginia Ray, PhD Candidate, Winter Lab, Department of Microbiology, Molecular Microbiology Graduate Program, UTSW Medical Center
2020 - present	Yubo He, PhD Candidate, Zhan Lab, Department of Physiology, Immunology Graduate Program, UTSW Medical Center
2021 - present	Isaac Gonzalez, PhD Candidate, Aguilera Lab, Department of Radiation Oncology, Immunology Graduate Program, UTSW Medical Center
2021- present	James Zhu, PhD Candidate, Wang and Xie Lab, Department of Population and Data Sciences, Cancer Biology Graduate Program, UTSW Medical Center
2023 - present	Emma Parks, MD/PhD Candidate, Conacci-Sorrell Lab, Immunology Graduate Program, UTSW Medical Center
<u>Qualifying examination committees</u>	
3/11	Bethany Weigle, PhD Candidate, Alto Lab, Molecular Microbiology Program, UTSW Medical Center
6/13	Reed Pifer, PhD Candidate, Sperandio Lab, Molecular Microbiology Program, UTSW Medical Center
2/16	Rajshri Iyer, PhD Candidate, Alto Lab, Molecular Microbiology Program, UTSW Medical Center
5/17	Aman Kumar, PhD Candidate, Sperandio Lab, Molecular Microbiology Program, UTSW Medical Center
12/17	Garrett Overcast, PhD Candidate, Pasare Lab, Immunology Program, UTSW Medical Center
2020	Byounggyu Yoo, PhD Candidate, Zhang Lab, Immunology Program, UTSW Medical Center
2020	Matthew McDougal, PhD Candidate, Schoggins Lab, Molecular Microbiology Program, UTSW Medical Center
2021	Joshua Miles, PhD Candidate, Lu Lab, Immunology Program, UTSW Medical Center

2021	Alexis Waller, PhD Candidate, Hendrixson Lab, Molecular Microbiology Program, UTSW Medical Center
2023	Nguyen (Henry) Vo, PhD Candidate, Molecular Microbiology Program, UTSW Medical Center
2023	Cong Xing, PhD Candidate, Immunology Graduate Program, UTSW Medical Center
2023	Benjamin Kroger, PhD Candidate, Cancer Biology Graduate Program, UTSW Medical Center

Committees concerned with medical and graduate student education

Graduate student rotations

6/12-8/12	Sureka Gattu, PhD Candidate, Molecular Microbiology, UTSW Medical Center
1/16-2/16	Margaret McDaniel, PhD Candidate, Immunology, UTSW Medical Center
5/16	Minghao Li, PhD Candidate, Summer Immersion in Clinical and Translational Research Rotation, Mechanisms of Disease and Translational Science Program, UTSW Medical Center
Fall 2017	Yusuf Tamer, PhD Candidate, Bench to Bedside Independent Study, Mechanisms of Disease and Translational Science Program, UTSW Medical Center
2/18 – 3/18	Animesh Mishra, PhD Candidate, Molecular Microbiology, UTSW Medical Center
3/18 – 4/18	Haley Barlow, PhD Candidate; Genetics, Development and Disease Program, UTSW Medical Center
9/18-10/18	Yongbin Choi, PhD Candidate, Immunology, UTSW Medical Center
10/18-12/18	Melissa Budicini, PhD Candidate, Immunology, UTSW Medical Center
9/19-10/19	Vivian Rojas, PhD Candidate, UTSW Medical Center
9/20-10/20	Alexandra Lopez, PhD Candidate, UTSW Medical Center
10/20-12/20	Alexandra Lowe, PhD Candidate, UTSW Medical Center
7/21-8/21	Tarun Srinivasin, MD/PhD Candidate, UTSW Medical Center
7/21-8/21	Brennan Confer, MD/PhD Candidate, UTSW Medical Center
8/21- 10/21	Suzette Palmer, PhD Candidate, UTSW Medical Center

Medical student rotations

6/10-8/10	Atish Gupta, MD Candidate, UTSW Medical School
6/14-8/14	Ashley Yoder, MD Candidate, UTSW Medical School
6/17-8/17	Kyle Saysana, MD Candidate, UTSW Medical School
6/18-8/18	Patrick Lynch, MD Candidate, UTSW Medical School
1/19-12/19	Justin Wong, MD Candidate, UTSW Medical School
7/23-8/23	Helen Stephens, MD Candidate, UTSW Medical School
7/23-8/23	Walter Otu, MD Candidate, UTSW Medical School

Undergraduate student trainees

6/10 – 8/13	Milan Savani
1/14 - 6/14	Evi Ho, Green Fellowship, UTSW Medical Center and UT Dallas
6/16 - 8/16	Kayla Long, UTSW SURF Program
6/17 - 8/17	Priscilla Del Valle, UTSW SURF Program (BUILDing SCHOLARS Program)
6/18 - 8/18	Pablo Arenaz, UTSW SURF Program (BUILDing SCHOLARS Program)
6/18 – 8/18	Erika Serrano, UTSW SURF Program
8/19 – 12/19	Erica Agbadiba, Internship
6/19 – 8/19	Ahmet Toprak, Internship
<u>Graduate student trainees</u>	
3/18 – 8/21	Animesh Mishra, Molecular Microbiology Program, UTSW
1/19 - 5/23	Yongbin Choi, Immunology Program, UTSW
2/20 -	Priscilla Del Valle, Cell and Molecular Biology Program, UTSW
2/22 -	Suzette Palmer, Biomedical Engineering (Computational Biology), UTSW
7/22 -	Tarun Srinivasan, Cancer Biology, UTSW
<u>Postgraduate medical education (graduate & continuing medical education)</u>	
8/09 -	Introduction to Pediatric Stem Cell Transplantation, Pediatric Hematology/Oncology Fellows
8/09 -	Stem Cell Transplantation and Primary Immune Deficiencies, Pediatric Residents rotating on Hematology/Oncology
8/09 -	Infections in Cancer and Stem Cell Transplant Patients, Pediatric Hematology/Oncology Fellows
8/09 -	Lecturer, Pediatric Resident Noon Conference
5/13 -	Preceptor for Pediatric Resident Morbidity and Mortality Conference
11/11 -	Supervising Faculty, Stem Cell Transplant Rotation, Pediatric Hematology/Oncology Fellowship University of Arkansas for Medical Science at Arkansas Children’s Hospital
<u>Postdoctoral trainees</u>	
7/09 - 6/12	Eduardo Lopez-Medina, MD, Pediatric Infectious Diseases Fellow
7/12 - 6/15	Michal Meir, MD, Pediatric Infectious Diseases Fellow
1/13 – 6/16	Padma Garg, MD, Pediatric Critical Care Fellow
7/14 – 6/16	Gauri Sunkersett, DO, Pediatric Hematology/Oncology Fellow
1/15 – 6/17	Pallav Bhattarai, MD, Pediatric Critical Care Fellow
1/17 – 6/19	Shyamli Singla, MD, Pediatric Hematology/Oncology Fellow
6/17 – 5/19	Ruveyda Albarak, MD, Postdoctoral fellow
6/17 -	Pearlie Chong, MD, Assistant Professor of Internal Medicine (Infectious Diseases); promoted to Associate Professor in 2022.
6/17 -	Brooks Brodrick, MD, Assistant Professor of Internal Medicine (Psychiatry)
9/17- 6/20	Rida Abid, MD, Pediatric Hematology/Oncology Fellow

6/19 – 6/21	Nonyelum Ebigbo, MD, Pediatric Gastroenterology Fellow
12/19 – 6/21	Ashley Bui, MD, Pediatric Hematology/Oncology Fellow
7/19 - 6/21	Adeline Yang, MD, Pediatric Resident
9/20 -	Matthew Campbell, MD, Assistant Professor of Pediatrics (Hematology/Oncology)
12/20 -	Wenling Li, PhD, Postdoctoral research fellow
7/21 -	Zoe O'Connor, MD, Pediatric Hematology/Oncology Fellow
7/21 - 5/23	Phinga Do, MD, Pediatric Gastroenterology Fellow
7/21 – 2/22	Apple Long, MD, PhD, Internal Medicine Infectious Diseases Fellow
7/21 -	Nonyelum Ebigbo, MD, Instructor of Pediatrics (Gastroenterology)
1/22 -	Jake Lichertman, DO, Adult Hematology/Oncology Fellow, Internal Medicine Physician Scientist Training Program
7/22 -	Gabriella Nguyen, MD, Pediatric Hematology/Oncology Fellow
7/22 -	Mary Dang, MD, Pediatric Hematology/Oncology Fellow

Invited Lectures

Year(s)	Title	Location
<u>International</u>		
2008	Fever and Neutropenia in Pediatric Cancer Patients	National Cancer Institute of Egypt, Cairo, Egypt
2008	Fever and Neutropenia; Aspergillus Infections in Pediatric Cancer Patients; Infectious Complications in Pediatric Cancer Patients.	Childrens' Cancer Hospital, Cairo, Egypt
2017	Commensal anaerobic gut microbiota promote <i>Candida albicans</i> colonization resistance	Lecture Course on Human Fungal Pathogens, Nice, France
2017	<i>Candida albican</i> gastrointestinal colonization and dissemination in the mammalian host	Molecular Mechanisms of Fungal Pathogen-Host Interaction, Marie Curie Initial Training Network, Innsbruck, Austria
2017	Role of the Microbiome in Modulating the Immune Response in Cancer and Stem Cell Transplant Patients	University of Würzburg, Würzburg, Germany
2018	Concepts of Microbiome Profiling Techniques	6 th Central European Summer Course on Mycology, Szeged, Hungary
2018	From commensal to pathogen: <i>Candida albicans</i> gastrointestinal colonization and dissemination	6 th Central European Summer Course on Mycology, Szeged, Hungary
2019	The Role of the Microbiome in Modulating Gut-derived Bacterial and Fungal Infections	28 th Congress of Latin American Pediatric Infectious Diseases, SLIPE 2019, Cartagena, Colombia
2019	Antibiotic Resistance and the Gut Microbiome	28 th Congress of Latin American Pediatric Infectious Diseases, SLIPE 2019, Cartagena, Colombia
2021	<i>Candida albicans</i> Gastrointestinal Colonization and Dissemination	Fungal Host Microbiota Program Seminar Series, Virtual

2021	Manipulating the Microbiome to Prevent Infection	World Microbe Forum, Virtual
2021	Gut Microbiota and Cancer Immunotherapy	Columbia Congress of Infectious Diseases, Virtual
2021	Gut Microbiota and Cancer Immunotherapy	The Scientist Webinar Series
2023	<i>Candida</i> colonization of the mammalian gastrointestinal tract	Mycotalks, MRC Centre for Medical Mycology, University of Exeter, Exeter, England
2023	Gut Microbiota and Cancer Immunotherapy	Future of Drug Development, Deep Microbiome Metabolomics, Liebnitz Institute for Natural Product Research and Infection Biology, Hans Knoll Institute, Jena, Germany
2023	Short-chain fatty acids and <i>Candida</i> colonization resistance in the mammalian gastrointestinal tract	Candida and Candidiasis 2023, Montreal, Canada
2023	Gut Microbiota and Cancer Immunotherapy	Targeting Microbiota 2023, International Society of Microbiota, Venice, Italy
2024	<i>Candida</i> colonization of the mammalian gastrointestinal tract	Lecture Course on Human Fungal Pathogens, Nice, France
<u>National</u>		
2010	Role of keratinocyte growth factor on the virulence of <i>Candida albicans</i>	10th American Society for Microbiology Conference on Candida and Candidiasis, Miami, FL
2010	<i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> : Gastrointestinal Colonization and Dissemination	Regeneron Corporation, Infectious Diseases Group, Tarrytown, NY
2010	Pediatric Hematopoietic Stem Cell Transplantation at UTSW Medical Center and Children's Medical Center Dallas	Arkansas Children's Hospital, Little Rock, AR
2012	<i>Candida albicans</i> dissemination from the Gastrointestinal Tract	11th American Society for Microbiology Conference on Candida and Candidiasis, San Francisco, CA
2012	Management Issues for Prolonged Febrile Neutropenia in the Pediatric Cancer Patient	American Society for Clinical Oncology General Meeting, Chicago, IL
2012	Pediatric Hematopoietic Stem Cell Transplantation at UTSW Medical Center and Children's Medical Center Dallas	McClane Children's Scott and White Hospital, Temple, TX
2013	Bacterial and Fungal Interactions in the Gastrointestinal Tract	University of Maine, Bangor, ME

2013	Pediatric Hematopoietic Stem Cell Transplantation at UTSW Medical Center and Children's Medical Center Dallas	El Paso Children's Hospital, El Paso, TX
2014	Short-chain fatty acids inhibit <i>C. albicans</i> growth <i>in vitro</i> and murine GI colonization	12 th American Society for Microbiology Conference on Candida and Candidiasis, New Orleans, LA
2014	Hematopoietic Stem Cell Transplantation	Immunology Course, University of Maine, Bangor, ME
2014	Augmenting Mucosal Immunity to Prevent <i>Candida albicans</i> Infections	Global Probiotics Council Meeting, Boston, MA
2015	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Epiva Therapeutics Inc., Boston, MA
2015	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Cincinnati Children's Hospital, Division of Bone Marrow Transplantation and Immune Deficiency, Cincinnati, OH
2016	Gut microbiota differences in isogenic mouse strains purchased from different vendors result in varying <i>Candida albicans</i> gastrointestinal colonization phenotypes	13 th American Society for Microbiology Conference on Candida and Candidiasis, Seattle, WA
2016	<i>Candida albicans</i> gastrointestinal colonization resistance	20 th Anniversary Molecular Mycology Course Symposium at Marine Biological Laboratory, Woods Hole, MA
2016	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	MD Anderson Cancer Center, Division of Pediatrics, Houston, TX
2016	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Texas Medical Center Digestive Disease Center, Baylor College of Medicine, Houston, TX
2016	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Memorial Sloan Kettering Cancer Center, New York NY
2017	<i>Candida albicans</i> Gastrointestinal Colonization Resistance in the Mammalian Host	Immunology of Fungal Infections, Gordon Research Conference, Galveston, TX
2017	Activation of LL-37 by Commensal Bacteria Inhibits <i>Candida albicans</i> Gastrointestinal Colonization and Dissemination	Antimicrobial Peptides, Gordon Research Conference, Ventura, CA
2017	Bacterial-fungal Interactions in the Gastrointestinal Tract Modulate the Development of Invasive Microbial Infections in the Mammalian Host	Biology Department Seminar, Texas A&M University, College Station, TX
2017	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	University of Rochester Medical Center, Rochester, NY

2017	Hematopoietic Stem Cell Transplantation	Immunology Course, University of Maine, Bangor, ME
2018	Diet Modulates <i>Candida albicans</i> Gastrointestinal Colonization Resistance in Mice	14 th American Society for Microbiology Conference on Candida and Candidiasis, Providence, RI
2018	From commensal to pathogen: <i>Candida albicans</i> gastrointestinal colonization and dissemination	American Society for Microbiology, Microbe Conference, Atlanta, GA
2018	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Vedanta Biosciences, Cambridge, MA
2018	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Merck Exploratory Science Center, Cambridge, MA
2018	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	University of Iowa, Pediatric Grand Rounds, Iowa City, IA
2019	Bacterial and Fungal Infections in Cancer and Stem Cell Transplant Patients	Keynote speaker, Molecular Basis of Infectious Diseases Retreat, UT Health Science Center, Houston, TX
2019	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	University of South Alabama, Mitchell Cancer Institute, Mobile, AL
2019	Bacterial and Fungal Bloodstream Infections in Cancer and Stem Cell Transplant Patients	National Institutes of Health, National Institute of Allergy and Infectious Diseases, Grand Rounds, Bethesda, MD
2019	Role of Gut Microbiota in Modulating Immune Checkpoint Inhibitory Therapy for Cancer	National Institutes of Health, National Cancer Institute, Strategic Workshop on Rigor and Reproducibility: Precision Fecal Microbiota Transplant and Microbiome Cancer Therapeutics Bethesda, MD
2019	Transplanting Fecal Microbiota in the Transplant Patient: Friend or Foe	IDWeek 2019, Infectious Diseases Society of America, Washington DC
2019	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Brown University, Molecular Microbiology and Immunology Department Seminar Series, Providence, RI
2019	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Arkansas Children's Hospital, Arkansas Children's Research Institute Seminar Series, Little Rock, AR
2019	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	University of Florida, Gainesville, FL
2020	Role of the Microbiome in Modulating Bacterial and Fungal Bloodstream Infections	3 rd Annual Texas Medical Center Antimicrobial Resistance and

		Stewardship Conference, Houston, TX
2020	Role of Gut Microbiome in the Health of Cancer and Stem Cell Transplant Patients	Children's Hospital of Orange County/University of California at Irvine, Orange, CA
2020	Gut Microbiota and Cancer Immunotherapy	27 th Annual PCF Scientific Retreat, Virtual meeting
2021	The Role of the Gut Microbiome in the Health of Cancer Patients	Molecular Mycology Course 25 th Anniversary Symposium, Current Approaches to Fungal Pathogenesis, Marine Biological Laboratory, Woods Hole, MA
2023	Gut Microbiota and Cancer Immunotherapy	Winthrop P. Rockefeller Grand Rounds, Winthrop P. Rockefeller Cancer Institute, University of Arkansas for Medical Sciences, Little Rock, Arkansas
2023	Gut Microbiota and Cancer Immunotherapy	AI, Machine Learning, Systems and Spatial Biology in Oncology Conference, Mayo Clinic Florida, Jacksonville, Florida
2023	Gut Microbiota and Cancer Immunotherapy	Platform for Innovative Microbiome and Translational Management (PRIME-TR) Research Seminar, The University of Texas MD Anderson Cancer Center, Houston, Texas
2023	Gut Microbiota and Cancer Immunotherapy	Human Oncology & Pathogenesis Program Research Seminar Series, Memorial Sloan Kettering Cancer Center, New York, New York
2023 (August)	Gut Microbiota and Cancer Immunotherapy	Pediatric Department Research Seminar Series, University of Iowa, Iowa City, IA
2023 (Sept)	Gut Microbiota and Cancer Immunotherapy	Cancer and Blood Disease Institute Research Seminar, Children's Hospital Los Angeles, Los Angeles, California
2023 (Nov)	Gut Microbiota and Cancer Immunotherapy	Host Microbiome Interactions Symposium, Center for Mucosal and Microbiome Biology, University of Texas Health San Antonio, San Antonio, Texas
2023 (Nov)	Gut Microbiota and Cancer Immunotherapy	Host Microbiome Interactions Symposium, Center for Mucosal and Microbiome Biology, University of

		Texas Health San Antonio, San Antonio, Texas
2023 (Nov)	Gut Microbiota and Cancer Immunotherapy	Center for Childhood Cancer Research Seminar Series, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania
<u>Regional/Local</u>		
2010	Now and Later: Pediatric Hematopoietic Stem Cell Transplantation	Scott Storm Conference, Dallas, TX
2010	Now and Later: Pediatric Hematopoietic Stem Cell Transplantation	Clayton Dabney Foundation, Dallas, TX
2010	<i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> : Gastrointestinal Colonization and Dissemination	Department of Microbiology Seminar, UTSW Medical Center, Dallas, TX
2010	Pediatric Hematopoietic Stem Cell Transplantation at UTSW Medical Center and Children's Medical Center Dallas	Blue Cross Blue Shield, Dallas, TX
2010	<i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> : Gastrointestinal Colonization and Dissemination	Pediatric Department Faculty Research Seminar, UTSW Medical Center, Dallas, TX
2011	<i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> : Gastrointestinal Colonization and Dissemination	Department of Biology Colloquium Series, UT Arlington, Arlington, TX
2011	Pediatric Hematopoietic Stem Cell Transplantation	Jordan Family Foundation, Dallas, TX
2011	<i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> : Gastrointestinal Colonization and Dissemination	Medical Scientist Training Program Seminar, UTSW Medical Center, Dallas, TX
2011	Pediatric Hematopoietic Stem Cell Transplantation	Cancer Group of the Salesmanship Club, Dallas, TX
2011	<i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> Infections in the Immunocompromised Host	Pediatric Hematology/Oncology Grand Rounds, UTSW Medical Center, Dallas, TX
2011	Pediatric Hematopoietic Stem Cell Transplantation at UTSW Medical Center and Children's Medical Center Dallas	National Marrow Donor Program, Dallas, TX
2011	Augmenting Mucosal Immunity to Prevent Invasive <i>Candida albicans</i> Infections	Pediatric Department Faculty Research Seminar, UTSW Medical Center, Dallas, TX
2011	Role of Commensal Flora and Innate Immunity in Preventing <i>Candida albicans</i> Infection	Neonatal Medicine Seminar, UTSW Medical Center, Dallas, TX
2011	<i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> : Gastrointestinal Colonization and Dissemination	Pediatric Infectious Diseases Grand Rounds, UTSW Medical Center, Dallas, TX

2012	The Role of Commensal Flora and Mucosal Immunity in Preventing <i>Candida albicans</i> Infection	Pediatric Department Faculty Research Seminar, UTSW Medical Center, Dallas, TX
2012	Role of Commensal Flora and Mucosal Immunity in Preventing <i>C. albicans</i> Infections	Pediatric Infectious Diseases Grand Rounds, UTSW Medical Center, Dallas, TX
2012	The Role of Commensal Flora in the Development of Bacteremia and Fungemia in Cancer and SCT Patients	Pediatric Hematology/Oncology Grand Rounds, UTSW Medical Center, Dallas, TX
2013	Pediatric Hematopoietic Stem Cell Transplantation at UTSW Medical Center and Children's Medical Center Dallas	Interlink, Dallas, TX
2013	Bacterial and Fungal Interactions in the Gastrointestinal Tract	Division of Mineral Metabolism Seminar, Department of Internal Medicine, UTSW Medical Center, Dallas, TX
2013	Bacterial and Fungal Interactions in the Gastrointestinal Tract	Medical Scientist Training Program Seminar, UTSW Medical Center, Dallas, TX
2013	Pediatric Hematopoietic Stem Cell Transplantation at UTSW and Children's Medical Center Dallas	Constantin Foundation, Dallas, TX
2014	Bacterial-Fungal Interactions in the Gastrointestinal Tract	Pediatric Infectious Diseases Grand Rounds, UTSW Medical Center, Dallas, TX
2014	Pediatric Hematopoietic Stem Cell Transplantation at UTSW Medical Center and Children's Medical Center Dallas	OptumHealth, Dallas, TX
2014	The Role of Gut Microbiota in the Health of Cancer and HSCT Patients	Pediatric Hematology/Oncology Grand Rounds, UTSW Medical Center, Dallas, TX
2014	The Role of Commensal Gut Bacteria in Modulating <i>Candida albicans</i> Colonization and Dissemination	Pediatric Department Research Retreat, UTSW Medical Center, Dallas, TX
2014	The Role of Gut Microbiota in the Health of Cancer and HSCT Patients	Scott Storm Conference, Dallas, TX
2014	Pediatric Hematopoietic Stem Cell Transplantation at UTSW Medical Center and Children's Medical Center Dallas	LifeTrac, Dallas, TX
2015	Immunotherapy in Pediatric Stem Cell Transplantation	Association of Pediatric Hematology/Oncology Nurses Association Regional Conference, Arlington, TX

2015	Immunotherapy in Pediatric Stem Cell Transplantation	Cancer Immunotherapy Retreat, Harold C. Simmons Cancer Center, UTSW Medical Center, Dallas, TX
2015	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Department of Immunology Seminar, UTSW Medical Center, Dallas, TX
2016	The Role of Gut Microbiota in Infection and GVHD in SCT Patients	Pediatric Infectious Diseases Grand Rounds, UTSW Medical Center, Dallas, TX
2016	The Role of Gut Microbiota in Infection and GVHD in SCT Patients	Pediatric Hematology/Oncology Grand Rounds, UTSW Medical Center, Dallas, TX
2016	Pediatric Hematopoietic Stem Cell Transplantation at UTSW Medical Center and Children's Medical Center Dallas	National Marrow Donor Program, Dallas, TX
2016	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Department of Microbiology Seminar, UTSW Medical Center, Dallas, TX
2016	Augmenting Gut Immune Effectors to Modulate <i>Candida albicans</i> Gastrointestinal Colonization and Dissemination	American Society for Microbiology Texas Branch Meeting, University of Texas at Dallas, Richardson, TX
2016	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Children's Medical Center Dallas, Pediatric Grand Rounds, Dallas, TX
2017	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Infectious Diseases Interest Group, UTSW Medical Center, Dallas, TX
2018	Role of Gut Microbiota in Modulating the Immune System in Cancer and Stem Cell Transplant Patients	Physician Scientist Seminar Series, UTSW Medical Center, Dallas, TX
2018	Role of Gut Microbiota in Modulating the Immune System in Cancer and Stem Cell Transplant Patients	Pediatric Hematology/Oncology Grand Rounds, UTSW Medical Center, Dallas, TX
2018	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Infectious Diseases (Internal Medicine) Seminar Series, UTSW Medical Center, Dallas, TX
2018	Role of Gut Microbiota in Modulating Cancer Immunotherapy Efficacy	Experimental Therapeutics Retreat, Simmons Cancer Center, UTSW Medical Center, Dallas, TX
2018	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Infectious Diseases Interest Group, UTSW Medical Center, Dallas, TX
2018	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Radiation Oncology Seminar Series, UTSW Medical Center, Dallas, TX
2018	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Kidney Cancer Center Seminar Series, UTSW Medical Center, Dallas, TX

2019	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Biochemistry Department Seminar, UTSW Medical Center, Dallas, TX
2019	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	MSTP Seminar, UTSW Medical Center, Dallas, TX
2019	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Pediatric Gastroenterology Division Seminar, Children's Medical Center Dallas, Dallas, TX
2020	Gut Microbiota and Cancer Immunotherapy	Hamon Center for Therapeutic Oncology Research, UTSW Medical Center, Dallas, TX
2020	Gut Microbiota and Cancer Immunotherapy	Simmons Comprehensive Cancer Center, Cellular Networks and Cancer Program, Virtual Retreat
2021	Gut Microbiota and Cancer Immunotherapy	Simmons Comprehensive Cancer Center, Nano-Immuno-Oncology U54 Center Seminar Series, UTSW Medical Center, Dallas, TX
2021	Gut Microbiota and Cancer Immunotherapy	Simmons Comprehensive Cancer Center, Cellular Networks and Cancer Program, UTSW Medical Center
2021	The Role of the Gut Microbiome in the Health of Cancer Patients	Cancer Focus Series, Simmons Comprehensive Cancer Center, UTSW Medical Center
2021	Role of the Gut Microbiome in the Health of Cancer and HSCT Patients	Medical Scientist Training Program Works in Progress Seminar Series, UTSW Medical Center
2022	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Frontiers in Medicine Series, UTSW Medical Center
2022	Gut Microbiota and Cancer Immunotherapy	Hematologic Malignancy Seminar Series, UTSW Medical Center, Dallas, TX
2022	Gut Microbiome and Cancer Immunotherapy	Pediatric Hematology/Oncology Grand Rounds, UTSW Medical Center, Dallas, TX
2023	Role of Gut Microbiota in the Health of Cancer and Stem Cell Transplant Patients	Frontiers in Medicine Series, UTSW Medical Center
2023	Gut Microbiota and Cancer Immunotherapy	Microbiology Department Seminar Series, UTSW Medical Center
2023	Gut Microbiota and Cancer Immunotherapy	Internal Medicine Grand Rounds, Texas Health Dallas, Dallas, TX

Technological and Other Scientific Innovations

Innovation
Patent, if any, pending or awarded /If described in print/on web, provide citation

UTSD 3245, “Specific Bacterial Species and Metabolite that Improves Immune Checkpoint Inhibitor Therapy Efficacy,” filed on Nov 2019
UTSD 3772, “Combination immunotherapy methods for the treatment of cancer,” filed on Aug 2021
Aumenta Biosciences, Inc. founded by Andrew Y. Koh, M.D. and Daniel Watkins, PhD in May 2021 (State of Delaware, Certificate of Incorporation, 5/28/21)

Service to the Community

Year(s)	Role	Organization or institution
May include a brief, one-sentence description of each role if needed (optional)		

Bibliography

Peer-Reviewed Publications

Original Research Articles

1.	Koh AY , Priebe GP, Pier GB. A murine model of gastrointestinal colonization and dissemination during neutropenia for studying virulence of <i>Pseudomonas aeruginosa</i> . <i>Infection and Immunity</i> 2005; 73(4):2262-2272. PMID: 15784570
2.	Koh AY , Köhler JR, Cogshall KT, Van Rooijen N, Pier GB. Mucosal damage and neutropenia are required for <i>Candida albicans</i> dissemination. <i>PLoS Pathogens</i> 2008; 4(2):e35 PMID:18282097
3.	van Gennip M, Christensen LD, Alhede M, Phipps R, Jensen PO, Christophersen L, Pamp SJ, Moser C, Mikkelsen PJ, Koh AY , Tolker-Nielsen T, Pier GB, Hoiby N, Givskov M, Bjarnsholt T. Inactivation of the <i>rhlA</i> gene in <i>Pseudomonas aeruginosa</i> prevents rhamnolipid production, disabling the protection against polymorphonuclear leukocytes. <i>Acta Pathologica, Microbiologica et Immunologica Scandinavica</i> 2009; 117:537-46. PMID:19594494
4.	Koh AY , Priebe GP, Ray C, Van Rooijen N, Pier GB. Inescapable need for Neutrophils as Mediators of Cellular Innate Immunity to Acute <i>Pseudomonas aeruginosa</i> Pneumonia. <i>Infection and Immunity</i> . 2009; 77(12):5300-5310. PMID: 19805527
5.	Kamei A*, Koh AY* , Gadjeva M, Priebe GP, Lory S, Pier GB. Analysis of Acquisition of <i>Pseudomonas aeruginosa</i> Gastrointestinal Mucosal Colonization and Horizontal Transmission in a Murine Model. <i>Journal of Infectious Diseases</i> . 2010; 201:71-80. PMID: 19938976 * Both authors contributed equally to this work
6.	Koh AY , Mikkelsen PJ, Smith RS, Cogshall KT, Kamei A, Givskov M, Lory S, Pier GB. Utility of <i>in vivo</i> transcription profiling for identifying <i>Pseudomonas aeruginosa</i> genes needed for gastrointestinal colonization and dissemination. <i>PLoS ONE</i> , 2010 Dec 10; 5(12): e15131. PMID 21170272

7.	Lopez-Medina E, Neubauer MM, Pier GB, Koh AY . RNA Isolation of <i>Pseudomonas aeruginosa</i> Colonizing the Murine Gastrointestinal Tract. <i>J Vis Exp</i> . 2011 Sep 28;(55). pii: 3293 PMID: 21989513.
8.	Kamei A, Wu W, Traficante DC, Koh AY , Van Rooijen N, Pier GB, Priebe GP. Collaboration between macrophages and vaccine-induced CD4+ T cells confers protection against lethal <i>Pseudomonas aeruginosa</i> pneumonia during neutropenia. <i>Journal of Infectious Diseases</i> . 2013 Jan;207(1):39-49. PMID:23100569
9.	Demasi JM, Cox JA, Leonard D, Koh AY , Aquino VM. Intravenous pentamidine is safe and effective as primary pneumocystis pneumonia prophylaxis in children and adolescents undergoing hematopoietic stem cell transplantation. <i>Pediatr Infect Dis J</i> . 2013 Sep; 32(9):933-6. PMID: 23538522.
10.	Fan D, Coughlin LA, Neubauer MM, Kim J, Kim M, Zhan X, Simms-Waldrip TR, Xie Y, Hooper LV, Koh AY . Activation of HIF-1 α and LL-37 by commensal bacteria inhibits <i>Candida albicans</i> colonization. <i>Nature Medicine</i> 2015 Jul; 21(7):808-14. PMID: 26053625.
11.	Lopez-Medina E, Fan D, Coughlin LA, Ho EX, Lamont IL, Reimann C, Hooper LV, Koh AY . <i>Candida albicans</i> inhibits <i>Pseudomonas aeruginosa</i> Virulence through Suppression of Pyochelin and Pyoverdine Biosynthesis. <i>PLoS Pathogens</i> 2015 Aug 27; 11(8):e1005129. PMID: 26313907.
12.	Piper HG, Fan D, Coughlin LA, Ho EX, McDaniel MM, Channabasappa N, Kim J, Kim M, Zhan X, Xie Y, Koh AY . Severe gut microbiota dysbiosis is associated with poor growth in patients with short bowel syndrome. <i>J Parenter Enteral Nutr</i> . 2016 Jul 12. PMID: 27406942.
13.	Kim J, Kim M, Koh AY , Xie Y, Zhan X. FMAP: Functional Mapping and Analysis Pipeline for metagenomics and metatranscriptomics studies. <i>BMC Bioinformatics</i> . 2016 Oct10; 17(1):420. PMID: 27724866.
14.	Simms-Waldrip TR, Sunkersett G, Coughlin LA, Savani M, Arana C, Kim J, Kim M, Zhan X, Greenberg DE, Xie Y, Davies SM, Koh AY . Antibiotic-induced depletion of anti-inflammatory Clostridia is associated with the development of GVHD in pediatric stem cell transplant patients. <i>Biology of Blood and Marrow Transplantation</i> . 2017 May; 23(5):820-829. PMID: 28192251.
15.	Frankel AE, Coughlin LA, Kim J, Froehlich TW, Xie Y, Frenkel EP, Koh AY . Metagenomic Shotgun Sequencing and Unbiased Metabolomic Profiling Identify Specific Human Gut Microbiota and Metabolites Associated with Immune Checkpoint Therapy Efficacy in Melanoma Patients. <i>Neoplasia</i> 2017 Sept 14; 19(10):848-855.
16.	Zhu W, Winter MG, Byndloss MX, Spiga L, Duerkop BA, Hughes ER, Büttner L, de Lima Romão E, Behrendt CL, Lopez CA, Sifuentes-Dominguez L, Huff-Hardy K, Wilson RP, Gillis CC, Tükel Ç, Koh AY , Burstein E, Hooper LV, Bäuml AJ, Winter SE. Precision editing of the gut microbiota ameliorates colitis. <i>Nature</i> . 2018 Jan 11; 553(7687):208-211.
17.	Kuhbandner K, Hammer A, Haase S, Terbrack E, Hoffman A, Schippers A, Wagner N, Hussain RZ, Miller-Little WA, Koh AY , Stoolman JS, Segal BM, Linker RA, Stuve O. MAdCAM-1 mediated intestinal lymphocyte homing is critical for the development of active experimental autoimmune encephalomyelitis. <i>Frontiers in Immunology</i> . 2019 Apr 26; 10:903.
18.	Rapid ultrasensitive detection platform for antimicrobial susceptibility testing. Cansizoglu MF, Tamer YT, Farid M, Koh AY , Toprak E. <i>PLoS Biology</i> . 2019 May 30;17(5):e3000291.
19.	Non-antibiotic small-molecule regulation of DHFR-based destabilizing domains in vivo. Peng H, Chau VQ, Phetsang W, Sebastian RM, Stone MRL, Datta S, Renwick M, Tamer YT, Toprak E, Koh AY , Blaskovich MAT, Hulleman JD. <i>Mol Ther Methods Clin Dev</i> . 2019 Aug 15; 15:27-39.

20.	Jiang S, Xiao G, Koh AY , Kim J, Li Q, Zhan X. A Bayesian zero-inflated negative binomial regression model for the integrative analysis of microbiome data. <i>Biostatistics</i> . 2019 Dec 17;. doi: 10.1093/biostatistics/kxz050. [Epub ahead of print] PubMed PMID: 31844880.
21.	Gao Y, Deason K, Jain A, Irizarry-Caro RA, Dozmorov I, Coughlin LA, Rauch I, Evers BM, Koh AY , Wakeland EK, Pasare C. Transcriptional profiling identifies caspase-1 as a T cell-intrinsic regulator of Th17 differentiation. <i>J Exp Med</i> . 2020 Apr 6;217(4). doi: 10.1084/jem.20190476. PubMed PMID: 31967646
22.	Mason BL, Li Q, Minhajuddin A, Czysz AH, Coughlin LA, Hussain SK, Koh AY , Trivedi MH. Reduced anti-inflammatory gut microbiota are associated with depression and anhedonia. <i>J Affect Disord</i> . 2020 Jan 30; 266:394-401. PMID: 32056905
23.	Piper HG, Coughlin LA, Hussain S, Channabasappa N, Koh AY . The impact of Lactobacillus probiotics on the gut microbiota in children with short bowel syndrome. <i>Journal of Surgical Research</i> . 2020 Jul; 251:112-118. PMID: 32135381.
24.	Piper HG, Coughlin LA, Nguyen V, Channabasappa N, Koh AY . A comparison of small bowel and fecal microbiota in children with short bowel syndrome. <i>J Pediatr Surg</i> . 2020 May; 55(5):878-882.
25.	Shuang J, Xiao G, Koh AY , Chen Y, Yao B, Li Q, Zhan X. HARMONIES: A Hybrid Approach for Microbiome Networks Inference via Exploiting Sparsity. <i>Frontiers in Genetics</i> . 2020 June 3; 11:445. PMID:32582274.
26.	Niu X, Daniel S, Kumar D, Ding EY, Savani RC, Koh AY , Mirpuri J. Transient neonatal antibiotic exposure increases susceptibility to late-onset sepsis driven by microbiota-dependent suppression of type 3 innate lymphoid cells. <i>Sci Rep</i> 2020 Jul 31; 10(1): 12974. PMID: 32737397.
27.	Manna MS, Tamer YT, Gaszek I, Poulides N, Ahmed A, Wang X, Toprak FCR, Woodard DR, Koh AY , Williams NS, Borek D, Atilgan AR, Hulleman JD, Atilgan C, Tambar U, Toprak E. A trimethoprim derivative impedes antibiotic resistance evolution. <i>Nat Commun</i> 2021 May 19; 12(1):2949. PMID:34011959.
28.	Tamer YT, Gaszek I, Rodrigues M, Coskun FS, Farid M, Koh AY , Russ W, Toprak E. The antibiotic efflux protein TolC is a highly evolvable target under colicin E1 or TLS phage selection. <i>Mol Biol Evol</i> 2021 Jun 27. PMID:34175926.
29.	McDonough L, Mishra A, Tosini N, Kakade P, Penumutthu S, Liang S, Maufrais C, Zhai B, Taur Y, Belenky P, Bennett R*, Hohl T*, Koh AY* , Ene J*. <i>Candida albicans</i> isolates 529L and CHN1 exhibit stable colonization of the murine gastrointestinal tract. <i>mBio</i> . 2021 Dec 21; 12(6):e0287821. PMID: 34724818.. * corresponding authors contributed equally to this work
30.	von Itzstein MS, Gonugunta AS, Sheffield T, Homsy J, Dowell JE, Koh AY , Raj P, Fattah F, Wang Y, Basava VS, Khan S, Park JY, Popat V, Saltarski JM, Gloria-McCutchen Y, Hsiehchen D, Ostmeyer J, Xie Y, Li QZ, Wakeland EK, Gerber DE. Association between Antibiotic Exposure and Systemic Immune Parameters in Cancer Patients Receiving Checkpoint Inhibitor Therapy. <i>Cancers (Basel)</i> . 2022 Mar 4;14(5):1327 .PMID: 35267634
31.	Button JE, Autran CA, Reens AL, Cosetta CM, Smriga S, Ericson M, Pierce JV, Cook DN, Lee ML, Sun AK, Alousi AM, Koh AY , Rechtman DJ, Jenq RR, McKenzie GJ. Dosing a synbiotic of human milk oligosaccharides and <i>B. infantis</i> leads to reversible engraftment in healthy adult microbiomes without antibiotics. <i>Cell Host Microbe</i> . 2022 May 11;30(5):712. PMID: 35504279
32.	Yang S, Wang S, Wang Y, Rong R, Kim J, Li B, Koh AY , Xiao G, Li Q, Liu DJ, Zhan X.J. MB-SupCon: Microbiome-based Predictive Models via Supervised Contrastive Learning. <i>Mol Biol</i> . 2022 Aug 15;434(15):167693. PMID: 35777465

33.	Ortigoza EB, Cagle J, Brown LS, Mansi S, Gosser SP, Montgomery AD, Foresman Z, Boren ML, Pettit PS, Thompson TD, Vasil DM, Chien JH, Neu J, Koh AY , Sanghavi R, Mirpuri J. Tachygastria in preterm infants: a longitudinal cohort study. <i>J Pediatr Gastroenterol Nutr.</i> 2022 Nov 1; 7(5):564:571. PMID 36305880.
34.	Choi Y, Lichterman JN, Coughlin LA, Poulides N, Li W, Del Valle P, Palmer SN, Gan S, Kim J, Zhan X, Gao Y, Evers BM, Hooper LV, Pasare C, Koh AY . Immune checkpoint blockade induces gut microbiota translocation that augments extraintestinal antitumor immunity. <i>Science Immunology</i> 2023 Mar 10; 8(81):eabo2003. doi: 10.1126/sciimmunol.abo2003. PMID: 36867675
35.	Palmer SN, Koh AY* , Zhan X*. IsoAnalytics: A single-cell proteomics web server. <i>Bioinform Adv.</i> 2023 Jun 21;3(1):vbad077. doi: 10.1093/bioadv/vbad077. PMID: 37359721 Under review at <i>Bioinformatics Advances</i> . * corresponding authors contributed equally to this work
36.	Rodrigues M, Sabaeifard P, Yildiz MS, Coughlin L, Ahmed S, Behrendt C, Wang X, Monogue M, Kim J, Gan S, Zhan X, Filkins L, Williams NS, Hooper LV, Koh AY* , Toprak E*. Susceptible bacteria survive antibiotic treatment in the mammalian gastrointestinal tract without evolving resistance. <i>bioRxiv.</i> 2023 Jan 11:2023.01.11.523617. doi: 10.1101/2023.01.11.523617. Preprint. PMID: 36711614 Under revision at <i>Cell Host and Microbe</i> * corresponding authors contributed equally to this work
37.	Button JE, Cosetta CM, Reens AL, Brooker SL, Rowan-Nash AD, Lavin RC, Saur R, Zheng S, Autran CA, Lee ML, Sun AK, Alousi AM, Peterson CB, Koh AY , Rechtman DJ, Jenq RR, McKenzie GJ. Precision modulation of dysbiotic microbiomes with a synbiotic of human milk sugars and <i>B. infantis</i> reshapes gut microbial composition and metabolites. <i>Cell Host and Microbe</i> , in press.

Reviews, Chapters, Monographs and Editorials

1.	Pizzo C, Mansbach J, Koh A , Tunnessen WW. Pediatric Puzzler: new seizures in a 6-year old: expanding horizons. <i>Contemporary Pediatrics</i> 1999; 16(8):25-33.
2.	Koh AY , Bernstein H. Neonatal jaundice, animal-induced injuries, and immunizations. <i>Curr Opin Pediatr</i> 2000; 12:413-425.
3.	Koh AY , Pizzo PA. Empirical Oral Antibiotic Therapy for Low Risk Febrile Cancer Patients with Neutropenia. <i>Cancer Investigation</i> 2002; 20(3): 420-433. PMID: 12025236
4.	Koh AY . Prolonged Febrile Neutropenia in the Pediatric Patient with Cancer. In: Govindan R, ed. <i>202 ASCO Educational Book</i> . Alexandria, VA: American Society of Clinical Oncology; 2012; 565-569.
5.	Glauser MP, Koh AY . "Antimicrobial Therapy" Management of Infections in Immunocompromised Patients. Edited by Pizzo PA, Glauser MP. London: WB Saunders/Churchill Livingstone, 2000
6.	Koh AY , Pizzo PA. "Infection in Children with Cancer" and "Fever and Granulocytopenia" Principles and Practice of Pediatric Infectious Diseases, Second Edition. Edited by Long SS, Pickering L, Prober CG. Philadelphia: Churchill Livingstone, 2003.
7.	Koh AY , Pizzo PA. "Infectious Complications in Children with Hematologic Disorders." Nathan and Oski's Hematology of Infancy and Childhood. Sixth Edition. Edited by Nathan DG, Oski FA, et al. Philadelphia: W B Saunders Company, 2003.

8.	Koh AY , Pizzo PA. "Infection in Children with Cancer" and "Fever and Granulocytopenia" Principles and Practice of Pediatric Infectious Diseases, Third Edition. Edited by Long SS, Pickering L, Prober CG. Philadelphia: Churchill Livingstone, 2008.
9.	Koh AY , Pizzo PA. "Infectious Complications in Children with Hematologic Disorders." Nathan and Oski's Hematology of Infancy and Childhood. Seventh Edition. Edited by Nathan DG, Oski FA, et al. Philadelphia: W B Saunders Company, 2009.
10.	Koh AY , Pizzo PA. "Infectious Complications in Pediatric Cancer Patients." Principles and Practice of Pediatric Oncology, Sixth Edition. Edited by Pizzo PA, Poplack DG. Philadelphia: Lippincott Williams & Wilkins, 2011.
11.	Koh AY , Pizzo PA. "Infection in Children with Cancer" and "Fever and Granulocytopenia" Principles and Practice of Pediatric Infectious Diseases, Fourth Edition. Edited by Long SS, Pickering L, Prober CG. Philadelphia: Churchill Livingstone, 2012.
12.	Koh AY . Gastrointestinal Colonization of Fungi. <i>Curr Fungal Infect Rep</i> (2013);7:144-151
13.	Koh AY . Murine models of Candida gastrointestinal colonization and dissemination. <i>Eukaryot Cell</i> . 2013 Nov;12(11):1416-22
14.	Sung L, Fisher BT, Koh AY . "Infectious Disease in the Pediatric Cancer Patient." Nathan and Oski's Hematology and Oncology of Infancy and Childhood. Eighth Edition. Edited by Orkin SH, Fisher DE, et al. Philadelphia: Elsevier Saunders Company, 2015.
15.	Ardura M, Koh AY . "Infectious Complications in Pediatric Cancer Patients." Principles and Practice of Pediatric Oncology, Seventh Edition. Edited by Pizzo PA, Poplack DG. Philadelphia: Lippincott Williams & Wilkins, 2015.
16.	Lopez-Medina E, Koh AY . The complexities of bacterial-fungal interactions in the mammalian gastrointestinal tract. <i>Microbial Cell</i> . 2016 May 3(5):191-195. PMID: 28357354.
17.	Koh AY . Identifying host immune effectors critical for protection against <i>Candida albicans</i> infections. <i>Virulence</i> 2016 Oct 2; 7(7):745-7. PMID: 27336198.
18.	Ardura M, Koh AY . "Infection in Children with Cancer" and "Fever and Granulocytopenia" Principles and Practice of Pediatric Infectious Diseases, Fifth Edition. Edited by Long SS, Pickering L, Prober CG. Philadelphia: Churchill Livingstone, 2017
19.	Koh AY . The microbiome in hematopoietic stem cell transplant recipients and cancer patients: Opportunities for clinical advances that reduce infection. <i>PLoS Pathogens</i> 2017 Jun 29; 13(6):e1006342. PMID: 28662165.
20.	Koh AY . The potential for monitoring gut microbiota for diagnosing infections and graft-versus-host disease in cancer and stem cell transplant patients. <i>Clin Chem</i> . 2017 Nov; 63(11):1685-1694. PMID: 28720679
21.	Andermann TM, Peled JU, Ho C, Reddy P, Riches M, Storb R, Teshima T, van den Brink MRM, Alousi A, Balderman S, Chiusolo P, Clark WB, Holler E, Howard A, Kean LS, Koh AY , McCarthy PL, McCarty JM, Mohty M, Nakamura R, Rezvani K, Segal BH, Shaw BE, Shpall EJ, Sung AD, Weber D, Whangbo J, Wingard JR, Wood WA, Perales MA, Jenq RR, Bhatt AS. The Microbiome and Hematopoietic Cell Transplantation: Past, Present, and Future. Blood and Marrow Transplant Clinical Trials Network. <i>Biol Blood Marrow Transplant</i> . 2018 Jul; 24(7):1322-1340. PMID 29471034.
22.	Simms-Waldrip TR, Koh AY . Food for Gut: Microbiota Fuels Immune Reconstitution after BMT. <i>Cell Host Microbe</i> . 2018 Apr 11;23(4):423-424.

23.	Mishra AA, Koh AY . Adaptation of <i>Candida albicans</i> During Gastrointestinal Tract Colonization. <i>Current Clinical Microbiology Reports</i> 2018 Sep; 5(3):165-172. PMID 30560045.
24.	Cancer Immune Checkpoint Inhibitor Therapy and the Gut Microbiota. Frankel AE, Deshmukh S, Reddy A, Lightcap J, Hayes M, McClellan S, Singh S, Rabideau B, Glover TG, Roberts B, Koh AY . <i>Integr Cancer Ther.</i> 2019 Jan-Dec;18:1534735419846379.
25.	Chong PP, Koh AY . The gut microbiota in transplant patients. <i>Blood Rev.</i> 2019 Aug 29:100614. PMID 31492463
26.	The Cancer Microbiome: Distinguishing Direct and Indirect Effects Requires a Systemic View. Xavier JB, Young VB, Skufca J, Ginty F, Testerman T, Pearson AT, Macklin P, Mitchell A, Shmulevich I, Xie L, Caporaso JG, Crandall KA, Simone NL, Godoy-Vitorino F, Griffin TJ, Whiteson KL, Gustafson HH, Slade DJ, Schmidt TM, Walther-Antonio MRS, Korem T, Webb-Robertson BM, Styczynski MP, Johnson WE, Jobin C, Ridlon JM, Koh AY , Yu M, Kelly L, Wargo JA. <i>Trends Cancer.</i> 2020 Mar;6(3):192-204.
27.	Hasan R, Koh AY , Zia A. The gut microbiome and thromboembolism. <i>Thrombosis Research.</i> 2020 May; 189:77-87.
28.	Bui A, Choi Y, Frankel AE, Koh AY . Unbiased microbiome and metabolomic profiling of fecal samples from patients with melanoma. <i>Methods Mol Biol.</i> 2021;2265:461-474. PMID: 33704734.
29.	Mishra AA, Koh AY . The microbial and host factors that govern <i>Candida</i> gastrointestinal colonization and dissemination. <i>Curr Opin Microbiol.</i> 2021 June 7; 63:29-35. PMID 3411679.

Books/Textbooks

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Case Reports

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Letters to the Editor

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Proceedings of Meetings

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