

HEMATOLOGY AND ONCOLOGY
2020 ANNUAL REPORT

SECTION OF HEMATOLOGY/ONCOLOGY



SECTION CHIEF

Martha Mims, M.D., Ph.D.

The Section of Hematology and Oncology is at the forefront of education, research and treatment for hematologic and oncologic disorders. Faculty members have strong affiliations with the Dan L Duncan Comprehensive Cancer Center (DLDCCC), the Lester and Sue Smith Breast Center and the Center for Cell and Gene Therapy. Our outstanding clinicians serve patients at Baylor St Luke's Medical Center (BSLMC) and the McNair Campus, Ben Taub Hospital and Smith Clinic, the Michael E. DeBakey VA Medical Center, the Cellular Therapy Unit at Houston Methodist Hospital and the Pavilion for Women. Basic and translational scientists in the section are leaders in cell signaling, breast and prostate cancer research, benign hematologic disorders, and cellular therapy. There are strong clinical research programs at all sites with special expertise in GI malignancies,

Breast cancer, GU cancers, hematologic malignancies and cellular therapy.

The section is dedicated to training medical students, residents and fellows in the classroom and at the bedside, and to educating graduate students and postdoctoral fellows in our laboratories. Our fellowship program is one of the largest in the country with comprehensive clinical training and research opportunities.

A handwritten signature in black ink that reads "Martha Mims". The script is cursive and elegant.

Martha P. Mims, M.D. Ph.D.
Section Chief of Hematology and Oncology

HIGHLIGHTS

- One of the largest fellowship programs in the country
- Highly cited researchers
- Established peptide receptor radionuclide therapy at BSLMC

FACULTY

Section Leadership

- Martha Mims, M.D. Ph.D., Section Chief
- Benjamin L. Musher, M.D., Medical Oncology Medical Director
- Sravanti Teegavarapu, M.D., Hematology, Medical Director
- Anita Sabichi, M.D., Michael E DeBakey VAMC Division Chief

Faculty

Primary

- Charu Agrawal, M.D.
- Tannaz Armaghany, M.D.
- Hazem El Osta, M.D.
- Jahnavi Gollamudi, M.D.
- Aparna Jotwani, M.D.
- Salma Kaochar, Ph.D.
- Ang Li, M.D., Ph.D.
- Fang-Tsyr Lin, M.D., Ph.D.
- Weei-Chin Lin, M.D. Ph.D.
- Premal Lulla, M.D.
- Courtney Miller-Chism, M.D.
- Martha Mims, M.D. Ph.D.
- Nicholas Mitsiades, M.D. Ph.D.
- Benjamin Musher, M.D.
- Gustavo Rivero, M.D.
- Anita Sabichi, M.D.
- Yvonne Sada, M.D.
- Brandon Smaglo, M.D., FACP
- Iberia Romina Sosa, M.D.
- Sravanti Teegavarapu, M.D.
- Mark Udden, M.D.
- Daniel Wang, M.D.
- Sarvari Yellapragada, M.D.
- Aihua Edward Yen, M.D.
- Svasti Haricharan, M.D.
- Helen Heslop, M.D.
- LaQuisa Hill, M.D.
- Susan Hilsenbeck, M.D.
- Valentina Hoyos, M.D.
- Mamta Kalidas, M.D.
- Rammurti Kamble, M.D.
- Meghashyam Kavuri, M.D.
- Natalie Lapteva, M.D.
- Maksim Mamonkin, M.D.
- Zhuyong Mei, M.D.
- Charles Minard, M.D.
- Julie Nangia, M.D.
- Kent Osborne, M.D.
- Carlos Ramos, M.D.
- Mothaffar Rimawi, M.D.
- Rachel Schiff, M.D.
- Masataka Suzuki, M.D.
- Perumal Thiagarajan, M.D.
- Juan Fernando Vera Valdes, M.D.
- Ayumi Watanabe, M.D.

Secondary (including Centers)

- Malcolm Brenner, M.D., Ph.D.
- George Carrum, M.D.
- Gary Chamness, M.D.
- Chad Creighton, M.D.
- Gloria Echeverria, M.D.
- Matthew Ellis, M.D.
- Suzanne Fuqua, M.D.

Adjunct

- Powel Brown, M.D., Ph.D.
- Elizabeth Rogg, M.D.

Emeritus

- Gerald Cyprus, M.D.
- Teresa Hayes, M.D.
- Edward Lynch, M.D.
- Joel Moake, M.D.
- David Sears, M.D.
- Robert Franklin Todd III, M.D., Ph.D.

HONORS AND ACHIEVEMENTS

Malcolm Brenner, M.D., Ph.D.

- Web of Science Group Highly Cited Researchers, 2019.

- Lifetime Achievement Award, International Society for Cell Therapy 2020

Chad Creighton, M.D.

- Web of Science Group Highly Cited Researchers, 2019
- 2020 American Association for Cancer Research (AACR) Team Science Award Recipient, as part of The Cancer Genome Atlas (TCGA), one of 129 Team Members

Gloria Echeverria, M.D.

- Abstract selected for Plenary Session oral presentation, AACR Meeting on Evolutionary Dynamics in Carcinogenesis and Response to therapy
- Invited lecturer, AACR Annual Meeting Educational Session ‘Evolutionary pressures drive cancer emergence’
- Invited lecturer, Basic and Translation Science Review of the 2019 San Antonio Breast Cancer Symposium, Best of SABCS 2020 Conference, Houston, TX

Salma Kaochar, Ph.D.

- Baylor College of Medicine Junior Faculty Award
- Finalist for The Eula and Donald Coffey Innovative Research Award, Society for Basic Urologic Research
- 2019 PCF VAlor Challenge Award, Prostate Cancer Foundation

Weei-Chin Lin, Ph.D.

- Invited to participate in Study Section for ITMO Cancer of the French National Alliance for Life and Health Sciences (AVIESAN) jointly with the French National Cancer Institute (INCa)

Nicholas Mitsiades, M.D., Ph.D.

- Elected Member of the American Society for Clinical Investigation

Benjamin Musher, M.D.

- Promoted to Associate Professor, Tenured

Carlos Ramos, M.D.

- Promoted to Professor, Tenured

Sarvari Venkata Yellapragada, M.D.

- Promoted to Associate Professor, Tenured

Aihua Edward Yen, M.D.

- Received Early Career Faculty Award for Excellence in Patient Care

PROFESSIONAL ORGANIZATIONS/ASSOCIATIONS OFFICES HELD

Matthew Ellis, M.D.

- Cadre Member of the Breast Cancer Committee, Cancer and Lymphoma Group B Member
- Breast Disease Working Group for “The Cancer Genome Atlas” External Co-Chair

- Avon Foundation Scientific Advisory Board
- NSABP, Scientific Advisory Board

Suzanne Fuqua, M.D.

- Endocrine Society
- Abstract Selection Committee, AACR Annual Meeting
- Program Committee, DOD-CDMRP, Breast Cancer Research Program
- Reviewer Panel, San Antonio, Breast Cancer Symposium, Abstract Selection Reviewer

Helen Heslop, M.D.

- American Society of Hematology, Member, Nominating Committee
- Blood and Marrow Transplant Clinical Trials Network Steering Committee, Chair 2020-21
- Foundation for Accreditation of Cell Therapy, Past President and Chair Immune Effector Task Force

Susan Hilsenbeck, M.D.

- Faculty Senator, BCM

Rammurti Kamble, M.D.

- Foundation for the Accreditation of Cellular Therapy (FACT), Inspector

Salma Kaochar, Ph.D.

- Organizational Committee for Coffey-Holden Prostate Cancer Academy
- Review Panel for Department of Defense (DoD) Developmental Therapeutics study section
- Review Panel for Prostate Cancer Foundation Young Investigator Awards
- Review Panel for Prostate Cancer Foundation Challenge Awards
- Prostate Cancer Foundation Young Investigator Working Group on Beyond Genomics, Group Leader, Prostate Cancer Foundation

Courtney Miller-Chism, M.D.

- American Society of Hematology (ASH), Medical Educators Institute
- Question writing committee for ASH Self-Assessment Program (SAP), Member

Martha Mims, M.D., Ph.D.

- Chair, ASH Training Awards Committee
- Chair, ASH Research Training Award for Fellows Study Section
- Director, K2R Program for ASH
- Inaugural Member, ASH Ambassador Program Faculty
- Steering Committee Member, American Society of Cancer Institute's Physician Clinical Leadership Initiative
- Baylor Principal Investigator for Southwest Oncology Group (SWOG)
- Member, SWOG Board of Governors

- Co-Chair, Planning Committee for Baylor College of Medicine/UT MD Anderson Cancer Center (BCM/MDACC) Comprehensive Board Review in Hematology and Medical Oncology

Nicholas Mitsiades, M.D., Ph.D.

- American Society of Clinical Investigation, elected member 2020

Carlos Ramos, M.D.

- FACT, Inspector
- FACT, Board of Directors Member
- Center for International Blood and Marrow Transplant Research (CIBMTR), Cellular Immunotherapy Data Resource Executive Committee Member
- CIBMTR, Nominating Committee Member

Rachael Schiff, M.D.

- San Antonio Breast Cancer Symposium (SABCS), Abstract Section Selection Committee, Chair
- SABCS, Program Planning Committee, Member
- AACR Annual Meeting, Tumor Biology Sub-Committee, Member
- AACR Annual Meeting, Abstract Reviewer
- Scientific Program Committee, Member
- MacroGenics Inc., Margetuximab, Advisory Council Working Group Meeting, Member

Brandon Smaglo, M.D.

- Texas Society of Clinical Oncology, Board Member At Large

Romina Sosa, M.D.

- American Society of Hematology, Member, Question writing committee for ASH SAP

Mark Udden, M.D.

- American Board of Internal Medicine, Chair, Hematology Board

EDITORIAL BOARD MEMBERSHIPS AND EDITORIAL POSITIONS

Malcolm Brenner, M.D., Ph.D.

- Editorial Board: *Bone Marrow Transplantation, Therapeutic Immunology; Gene Therapy; Cytokines and Molecular Therapy*

Chad Creighton, M.D.

- 2014-present, Statistical Editor, *Journal of the National Cancer Institute*
- 2020-present, Editorial Board Member, *Clinical Genitourinary Cancer*

Matthew Ellis, M.D.

- *Journal of Clinical Oncology*
- *Journal of the National Cancer Institute*
- *Cancer Discovery, Breast Cancer Research and Treatment*

- Ad Hoc Reviewer: *Nature, Cell Reports, Nature Communications, Cancer Cells, New England Journal of Medicine, Cancer Discovery, Cancer Research, Clinical Cancer Research, Journal of Clinical Oncology, Journal of the National Cancer Institute, Breast Cancer Research, Breast Cancer Research and Treatment, International Journal of Cancer, Cancer Chemotherapy and Pharmacology*

Helen Heslop, M.D.

- Deputy Editor, *Molecular Therapy*
- Editorial Board: *British Journal of Hematology, BBMT, Cytotherapy*

Susan Hilsenbeck, M.D.

- Senior Editor, *Clinical Cancer Research*

Rammurti Kamble, M.D.

- Editorial Board Member, *International Journal of Blood Disorder and Medicine*

Salma Kaochar, Ph.D.

- Editorial Board, *Elsevier Translational Oncology*

Ang Li, M.D., Ph.D.

- Editorial Board Member, *Research and Practice in Thrombosis and Haemostasis*

Fang-Tsyr Lin, M.D., Ph.D.

- Ad Hoc journal review, *Cancer Biotherapy and Radiopharmaceuticals*

Martha Mims, M.D., Ph.D.

- Associate Editor, *Translational Research*

Nicholas Mitsiades, M.D., Ph.D.

- Editorial Board, *Endocrine Related Cancer, Journal of the Endocrine Society*

Kent Osborne, M.D.

- Editorial Board, *Breast Cancer Research, Cancer Research*

Gustavo Rivero, M.D.

- Associate Editor, *Blood Research and Disorders Journal*

Anita Sabichi, M.D.

- Editorial Board, *The Scientific World Journal*
- Editorial Board, *New Journal of Science*

OTHER SIGNIFICANT ACCOMPLISHMENTS

Charu Agrawal, M.D.

- That's the Way Award

Tannaz Armaghany, M.D.

- Establishment of peptide receptor radionuclide therapy at BSLMC
- Hematology and Oncology Grand rounds Director, 1/2020-current

Salma Kaochar, Ph.D.

- Trainee Funding/Award: Graduate Student: Dallin Lowder: T32 (GM008231-30), PhRMA Fellowship Finalist
- Trainee Funding/Award: Collin McColl: T32 (GM008231-30), T32 (GM088129-10, PhRMA Fellowship Finalist
- Postdoctoral Fellow: Amit Dash: Endocrine Society Outstanding Abstract Award (2020)

Fang-Tsyr Lin, M.D., Ph.D.

- BCM COVID-19 Pilot Project awardee

Weei-Chin Lin, M.D., Ph.D.

- BCM COVID-19 Pilot Project awardee

Martha Mims, M.D., Ph.D.

- Mentor, ASH Honor Awardee, Ronald Paranal
- Baylor Fellowship; Best Hematology Teaching Attending of the Year, 2020
- Baylor Fellowship; Best Hematology Teaching Service, 2020

Benjamin Musher, M.D.

- Baylor Fellowship; Best Oncology Teaching Attending of the Year, 2020
- Baylor Fellowship; Best Oncology Teaching Service, 2020
- Completed the first-ever BCM-only Phase I trial in a GI malignancy (LOKON-001, Cohort 1)
- Co-chaired the Onclive State of the Science Summit Gastrointestinal Malignancies with Shubham Pant (MDACC), February 2020

Gustavo Rivero, M.D.

- Hematologic Malignancies Symposium, November 2, 2019

RESEARCH ACTIVITIES***Grants*****Tannaz Armaghany, M.D.**

- OPTIM trial: IIT – PI - \$30K from Golfers Against Cancer and \$20K from Dr. Osborne's philanthropy account
- GLYCAR: PI - CAR-T cell in Hepatocellular carcinoma T lymphocytes administered in patients with pancreatic cancer (tactops) CO-PI

Malcolm Brenner, M.D., Ph.D.

- 3rd Amendment/NCE To Extend Agreement & Add Additional Funding – Follow-up For Lokon (Sample Analysis For The Clinical Trial) (10/15/2019 - 10/14/2021)

- Spore in lymphoma project 1: car t cell therapy for t cell lymphoma (04/01/2007-08/31/2022)

Chad Creighton, M.D.

- R01-DK092202-09 AMD 1 Subaward: Prostate Epithelial Lineage Hierarchy (9/1/2019 - 8/31/2020)
- R01-DK107436 -04 Year 2: Molecular Mechanisms Of Initiation Of Benign Prostatic Hyperplasia (7/1/2019 - 6/30/2020)
- Pigenetic regulated genes in African American prostate cancer patients [2U54MD007597-31 (Ittmann/Kwabi-Addo)] Funding Agency: NIH/NCI Dates of Funding: 08/01/19-07/31/24
- Osteogenic niche biology in progression and endocrine resistance of bone metastases [5R01CA221946-02 (Rowley)] (9/5/2018-8/31/2023)
- Transcriptional Control of Gliogenesis in the CNS [2R01NS071153-10A1 (Deneen)] Dates of Funding: (9/01/2019-6/30/2024)
- Title: Exploiting dimethyl fumarate to uncover druggable vulnerabilities and prevent recurrence of ER+ breast cancers [W81XWH-19-1-0108 (Kastrati)] Funding Agency: (09/1/19-08/31/22)
- Title: Estrogen receptor beta-p53 signaling axis: A new therapeutic target in triple-negative breast cancer [W81XWH-19-1-0112 (Kaiparettu & Das)] Funding Agency (09/01/2019-08/31/2022)
- Title: Regulation of Lung Cancer Survival and Metastasis by an Actionable Driver of Vesicle Biogenesis in the Golgi [1R01CA236781-01A1 (Kurie)] Funding Agency: NIH/NCI (through MD Anderson Cancer Center) (12/01/19-11/30/24)
- Title: The Transformation GBM Initiative [FP00003609 (Deneen)] Funding Agency: Brockman Medical Research Foundation (02/01/18-01/31/21)
- UHCOP-DLCCC Alliance: Cancer drug discovery/development and education [1P20-CA221729-01A1 (Matzuk)] Funding Agency: NIH/NCI (9/01/18-08/31/22)
- Targeting MYC and LYN Crosstalk to Disrupt Breast Cancer Metabolism [W81XWH-18-1-0714 (Kaiparettu & Goga)] Funding Agency: DOD (10/01/18-09/30/21)
- Fungal Pathogenesis of Moderate to Severe Asthma [R01-AI135803-01 (Corry)] Funding Agency: NIH (09/01/17-08/31/22)
- Energy reprogramming-regulated oncopathways and drug resistance in triple negative breast cancer [1R01-CA234479 (Kaiparettu)] Funding Agency: NIH/NCI (01/01/19-11/30/24)
- Molecular Dissection of Seizure Microenvironment in Malignant Glioma [1 R01 CA223388-01 (Noebels)] Funding Agency: NIH/NCI (12/15/2017-11/30/22)
- The Notch Signaling in Prostate Homeostasis and Carcinogenesis [1 R01 CA190378-01A1 (Xin)] Funding Agency: NIH/NCI (07/07/15-06/30/20)
- Baylor College of Medicine Cancer Center – DLCCC [2 R01 CA125123-09 (Osborne)] Funding Agency: NIH/NCI (07/07/15-06/30/25)
- Decoding the Role of Diverse Astrocyte Populations in Aging [1 RF AG054111-01 (Zheng)] Funding Agency: NIH/NIA (08/15/16-06/30/21)

- Normal Regulation of Breast Cancer [4 R01 CA016303-41 (Rosen)] Funding Agency: NIH/NCI (06/01/15-05/31/23)
- Prostate Epithelial Lineage Hierarchy [2 R01 DK092202-06 (Xin)] Funding Agency: NIH/NIDDK (09/01/16-08/31/20)
- Molecular Mechanisms of Initiation of Benign Prostatic Hyperplasia [1 R01 DK107436-01 (Xin)] Funding Agency: NIH/NIDDK Investigator Role: Coinvestigator/Subcontract PI (07/01/16-06/30/20)
- Inhibition of TGF β Signaling by Nuclear Receptor COUP-TFII Results in Aggressive Prostate Cancer Growth and Metastasis [RP150648 (Tsai)] Funding Agency: CPRIT (06/01/16-05/31/20)
- Novel LGR4 Oncogenic Signaling in Breast Cancer Progression and Metastasis [1 R01 CA204926-01A1 (Li)] Funding Agency: NIH/NCI (02/01/2017-01/31/2022)

Gloria Echeverria, M.D.

- K22- CA241113-01 K22 - Institution Transfer To BCM - Characterizing and Targeting Intra-Tumor Heterogeneity In Triple Negative Breast Cancer Chemoresistance And Multi-Organ Metastasis (2/6/2020-1/31/2021)
- K22- CA241113-01 K22 - Institution Transfer To BCM - Characterizing And Targeting Intra-Tumor Heterogeneity In Triple Negative Breast Cancer Chemoresistance And Multi-Organ Metastasis (2/6/2020-1/31/2021)
- RR200005 YR 1 RR200009 - First Time Tenure Track Faculty - Gloria Echeverria (3/1/2020-2/28/2021)
- METAvivor Early Career Investigator Grant (01/01/2019-06/01/2020)

Matthew Ellis, M.D.

- BCRF-19-042 (NSABP AMD 4) Year 6 - (Updated Title) - Circulating Tumor DNA Based-Monitoring in Early Stage and Advanced Breast Cancer (10/1/2019-9/30/2020)
- CCR18548157 Mismatch Repair Defects And Endocrine Therapy Resistance In ER+ Breast Cancer (10/23/2019-10/22/2020)
- CONS18005 Year 8 Alternate Trial: A Neoadjuvant Biomarker Approach for Estrogen Receptor Positive Breast Cancer (10/1/2019-9/30/2020)
- RR140033 NCE: Dr. Matthew Ellis: Established Investigator Recruit - Accelerating Breast Cancer Translational Medicine through Genomics and Proteomics (12/1/2019-5/31/2020)
- U01-CA214125 04 Year 4: (MPI - U01) Microscaled Proteogenomics for Cancer Clinical Trials (CPTAC) (6/1/2020-5/31/2021)
- U01-CA214125 04 Amend 3_Duke_PO 7000000435 Year 4: (MPI - U01) Microscaled Proteogenomics for Cancer Clinical Trials (CPTAC) (6/1/2020-5/31/2021)
- U01-CA214125 04 Amend 3_Mayo_PO 7000000469 Year 4: (MPI - U01) Microscaled Proteogenomics for Cancer Clinical Trials (CPTAC) (6/1/2020-5/31/2021)
- U01-CA214125 04 Amend 3_UNC_PO 7000000410 Year 4: (MPI - U01) Microscaled Proteogenomics for Cancer Clinical Trials (CPTAC) (6/1/2020-5/31/2021)

- U01-CA214125 04 Amend 7_BI_PO 7000000403 Year 4: (MPI - U01) Microscaled Proteogenomics for Cancer Clinical Trials (CPTAC) (6/1/2020-5/31/2021)
- W81XWH-16-1-0539 NCE: BC151851: Project 1: Direct Regulation of Estrogen Receptor Transcriptional Activity by NF1 (9/30/2019-9/29/2020)

Suzanne Fuqua, M.D.

- BCRF-19-055 Year 6: Role of ESR1 Mutations in Breast Cancer Progression (10/1/2019-9/30/2020)
- R01-CA207270 04 Year 4: Mechanisms Of AR-ER Collaboration in Hormone Resistance and Metastasis of Breast Cancer (3/1/2020-2/28/2021)
- RP180712 YR2 Year 2 - Project 2: Overcoming Endocrine Insensitivity In ER-Positive Breast Cancer Patients (8/31/2019-8/30/2020)
- T32-CA203690 -02 (MPI): Year 2: T32 Translational Breast Cancer Research Training Program (9/1/2019-8/31/2020)

Svasti Haricharan, M.D.

- W81XWH-18-1-0034 BC170276 Mismatch Repair Loss Renders ER+/HER2- Breast Cancer Susceptible To HER2/3 Inhibition (3/1/2020-2/28/2021)

Helen Heslop, M.D.

- Normal Donor Procurement For CD30 Car EBVSTS (8/30/2019-8/29/2020)
- Spore in lymphoma project 1: car t cell therapy for t cell lymphoma (04/01/2007-08/31/2022)
- Spore in lymphoma project 2: t cell therapy targeting multiple tumor antigens in lymphoma(04/01/2007-08/31/2022)
- Spore in lymphoma project 3: immunotherapy of b cell lymphoma with nk-t cells(04/01/2007-08/31/2022)
- spore in lymphoma project 4: overcoming tumor evasion in ebv+ve lymphomas(04/01/2007-08/31/2022)
- Spore in lymphoma: cell-based immunotherapies of human cancer (04/01/2007-08/31/2022)
- Spore in lymphoma: developmental research program (04/01/2007-08/31/2022)
- Spore in lymphoma: career enhancement program (04/01/2007-08/31/2022)
- Spore in lymphoma: administrative core (04/01/2007-08/31/2022)
- Spore in lymphoma: cell &vector core (04/01/2007-08/31/2022)
- Spore in lymphoma: clinical & biostats corE (04/01/2007-08/31/2022)
- Spore in lymphoma: biospecimen and pathology core (04/01/2007-08/31/2022)
- Tailoring car-based immunotherapy strategies to t cell lymphoma (01/01/2019-12/31/2021)
- Targeting HIV and ebv antigens in patients with HIV lymphoma (08/08/2011-06/30/2024)

Susan Hilsenbeck, M.D.

- 1U54CA233223-01(Mitsiades) Minority PDX Development and Trial Center: BCM and MDACC Collaboration on Mechanistic Studies to Dissect and Combat Health Disparities in Cancer (09/20/18-06/30/23)

Valentina Hoyos, M.D.

- CCR19606699 Estrogen Receptor 1 Mutation (ESR1M) Specific T Cells For The Treatment Of Hormone Receptor Positive Metastatic Breast Cancer (HR+MBC) (9/5/2019-9/4/2020)
- RR170024 YR 3 Yr 1: Recruitment of First-Time, Tenure Track Faculty Member Dr. Valentina Hoyos Velez (RFT) (8/31/2019-8/30/2020)

Salma Kaochar, Ph.D.

- NCE - Characterization Of First-In-Class Oncometabolic Inhibitor (11/15/2019-11/14/2020)
- 18YOUN09 Year 2: Targeting The P160 Steroid Receptor Coactivators (SRCS) In African American Prostate Cancer (8/1/2019-7/31/2020)
- 19CHAL07 Targeting Castration Resistant Prostate Cancer With Novel Onco-Metabolic Inhibitors (10/25/2019-10/24/2020)

Meghashyam Kavuri, M.D.

- CCR16380599 NCE: Kinome Analysis to Rationalize Targeting HER2 and DDR1 Breast Cancer Mutations (9/15/2019-9/14/2020)
- W81XWH-18-1-0035 Yr. 3 BC170276P1 Mismatch Repair Loss Renders ER+/HER2- Breast Cancer Susceptible To HER2/3 Inhibition (3/1/2020-2/28/2021)
- W81XWH-18-1-0040 YR 3 BC170466: Targeting DDR1 Aberrations in Metastatic ER+ Breast Cancer (2/15/2020-2/14/2021)

Ang Li, M.D., Ph.D.

- NHF-Takeda Clinical Fellowship (3/1/2020-2/28/2021)
- Understanding the Etiology of Transplant-Associated Thrombotic Microangiopathy (TA-TMA) and its Mechanistic Association with Von Willebrand Factor (1/29/2020-1/28/2021)
- Understanding the Etiology Of Transplant-Associated Thrombotic Microangiopathy (TA-TMA) and its Mechanistic Association with Von Willebrand Factor (1/29/2020-1/28/2021)
- RR190104 YR 1: RR190104: First-Time, Tenure-Track: Dr. Ang Li (8/31/2019-8/30/2020)

Fang-Tsyr Lin, M.D., Ph.D., and Weei-Chin Lin, M.D., Ph.D.

- R01CA203824-04 (NIH/NCI) PI: Weei-Chin Lin and Fang-Tsyr Lin Title: Novel Therapeutics for Targeting Checkpoint Dysfunction in Cancer (12/1/16-11/30/21)
- BC171396 Department of Defense Breast Cancer Research Program - Breakthrough Award 2 – Title: Exploiting a new Achilles' heel of mutant p53 in breast cancer (9/30/18 – 9/29/21)
- BC181104 PI: Department of Defense Breast Cancer Research Program Expansion Award, Title: Inducing BRCAness to synergize with PARP inhibitors in breast cancer (8/01/19 – 7/31/22)
- BCM Pilot Project Award (4/1/20-3/31/21)
- R01CA100857-15 (NIH/NCI) PI: Weei-Chin Lin (NCE 02/28/21), Title: The ATM/E2F1 Pathway in DNA Damage and Growth Control Role: Collaborator (4/15/04-2/29/20)

Weei-Chin Lin, M.D., Ph.D.

- R01-CA100857-15 NCE. Year 15 (NCE): The ATM/E2F1 Pathway In DNA Damage And Growth Control (3/1/2020-2/28/2021)
- R01-CA203824 04. Year 4: MPI-Novel Therapeutics For Targeting Checkpoint Dysfunction in Cancer (12/1/2019-11/30/2020)
- T32-174647-05 NCE. Year 5 (NCE) -Bcm Oncology Scholars Training Program (8/1/2019-7/31/2020)
- W81XWH1810329. BC 171396 (MPI) Exploiting A New Achilles Heel Of Mutant P53 In Breast Cancer (11/1/2019-10/31/2020)
- W81XWH-19-1-0369 Year 1: BC181104: Inducing BRCAness To Synergize With PARP Inhibitors In Breast Cancer (WS00183183) (8/1/2019-7/31/2020)
- MPI-Mitigate COVID-19 by targeting viral entry, BCM COVID-19 Pilot Project Award, \$20,000

Premal Lulla, M.D.

- DRG 2018 Year 2: Tailoring a T Cell Therapy To Patients with MDS (9/1/2019-8/31/2020)
- Administration of donor-derived multi-tumor-associated antigen-specific t cells to patients with AML or MDS (ADSPAM) (11/16/2018-11/15/2022)

Zhuyong Mei, M.D.

- A Randomized, Double-Blind, Placebo-Controlled Trial Of Allogeneic Bone Marrow-Derived Mesenchymal Stem Cells As A Disease Modifying Therapy For Early Idiopathic Parkinson's Disease (3/23/2020-12/15/2020)

Charles Minard, M.D.

- UM1-CA228823 01 NIH Pediatric Early Phase Clinical Trials Network (PEP-CTN) Grant (8/1/2019-7/31/2020)

Nicholas Mitsiades, M.D., Ph.D.

- R01-CA193321-05 Year 5: Regulation of Uveal Melanoma Cell Fate By MITF via the PKC Pathway (8/1/2019-7/31/2020)
- U54-CA233223 01 MYF Year 2: Minority PDX Development and Trial Center: BCM and MDACC Collaboration on Mechanistic Studies to Dissect and Combat Health Disparities in Cancer - Assist ID 222682 (9/20/2019-9/19/2020)
- U54-CA233223 -01 (SBP AMD 1) MYF Year 1: Minority PDX Development and Trial Center: BCM and MDACC Collaboration on Mechanistic Studies to Dissect and Combat Health Disparities in Cancer - Assist ID 222682 (7/1/2019-9/19/2019)
- U54-CA233223 01 (SBP AMD 2) MYF Year 2: Minority PDX Development and Trial Center: BCM and MDACC Collaboration on Mechanistic Studies to Dissect and Combat Health Disparities in Cancer - Assist ID 222682 (9/20/2019-9/19/2020)
- U54-CA233223 01 Amend 1_MDA_PO 7000000930 MYF Year 2: Minority PDX Development and Trial Center: BCM and MDACC Collaboration on Mechanistic Studies to Dissect and Combat Health Disparities in Cancer - Assist ID 222682 (9/20/2019-9/29/2020)

- W81XWH-17-1-0298 YR3 Prog Rep Year 3: PC160445: A First-In-Field Approach to Target a Previously Undruggable Oncogene Family in Prostate Cancer (7/1/2019-6/30/2020)
- W81XWH1810288, Year 2 PC170980 Sensitization of Castration Resistant Prostate Cancer to Chemotherapy via BRCA-1/BRCA-2 Induced DNA Replication Stress (7/1/2019-6/30/2020)
- W81XWH-18-1-0288, Year 2: PC170980 Sensitization of Castration Resistant Prostate Cancer to Chemotherapy via BRCA-1/BRCA-2 Induced DNA Replication Stress (7/1/2019-6/30/2020)
- RP150648 - CPRIT Multi-Investigator Research Award
- Prostate Cancer Foundation Challenge Award

Benjamin Musher, M.D.

- Support by Abbvie to investigate: prevalence of exocrine pancreatic insufficiency among patients with pancreatic adenocarcinoma: a single center study
- Ongoing support by LOKON Pharma for serving as the PI for Phase I trial LOKON-001: phase I/IIA trial evaluating safety of load703, an armed oncolytic adenovirus for pancreatic cancer (LOKON001)

Kent Osborne, M.D.

- P30-CA125123 13. Year 13: Baylor College of Medicine Cancer Center (7/1/2019-6/30/2020)
- P50-CA186784 05 NCE: Translational Research in Breast Cancer (SPORE) (9/1/2019-8/31/2020)

Mothaffar Rimawi, M.D.

- TBCRC 2019 PY1 TBCRC 2019 PY1 BCRF - Translational Breast Cancer Research Consortium Infrastructure Support Task Order via BCRF (7/1/2019-6/30/2020)
- TBCRC 2019 PY1 TBCRC 2019 PY1 Komen - Translational Breast Cancer Research Consortium Infrastructure Support Task Order via Komen (7/1/2019-6/30/2020)

Rachel Schiff, M.D.

- BCRF-19-145. BCRF 2019-2020: Mechanisms of Resistance to HER2 And ER-Targeted Therapies and Novel Therapeutic Strategies (10/1/2019-9/30/2020)
- RP190398 Year 2: RP190398 Targeting The Mechanism of Hyperactive FOXA1 in Transcriptional Reprogramming Toward Endocrine Resistance and Metastasis in Breast Cancer (3/1/2020-2/28/2021)
- W81XWH-14-1-0341 P00004. 3rd NCE BC133693P1: Targeting GPR110 In HER2-Overexpressing Breast Cancer (9/30/2019-9/29/2020)
- W81XWH-17-1-0580 BC161327P1: A New Paradigm For De-Escalation Of Treatment In HER2 Positive Breast Cancer: Revolutionizing Care With More Effective And Less Toxic Therapy. (9/15/2019-9/14/2020)
- W81XWH-17-1-0580 Year 3 (of 5) BC161327P1: A New Paradigm For De-Escalation Of Treatment In HER2 Positive Breast Cancer: Revolutionizing Care With More Effective And Less Toxic Therapy. (9/15/2019-9/14/2020)

Masataka Suzuki, M.D.

- 4th Amendment To Extend Term & Add Additional Funds - Combinatorial Treatment With Armed Oncolytic Ad Gene Therapy And Car T-Cell Therapy For Squamous Cell Carcinoma Of The Head And Neck (HNSCC) (10/1/2019-9/30/2020)
- 5th Amendment To Add Additional Funds - Combinatorial Treatment With Armed Oncolytic Ad Gene Therapy And Car T-Cell Therapy For Squamous Cell Carcinoma Of The Head And Neck (HNSCC) (1/1/2020-9/30/2020)

Publications

- Academic Emergency Medicine (IF **3.064**): 1
- Advanced Cell & Gene Therapy (IF N/A): 4
- American Journal of Hematology (IF **6.973**): 1
- American Journal of Medicine (IF **5.262**): 1
- American Journal of Transplant (IF **7.338**): 1
- Anesthesia & Analgesia (IF **4.305**): 1
- Annals of Internal Medicine (IF **21.317**): 3
- Biology of Blood & Marrow Transplant (IF **3.670**): 18
- Blood Advances (IF **4.584**): 11
- Blood (IF **16.601**): 2
- British Journal of Haematology (IF **5.518**): 3
- Breast Cancer (IF **2.695**): 5
- Breast Cancer Research (IF **4.988**): 2
- Breast Cancer Research and Treatment (IF **3.831**): 7
- Breast Journal (IF **3.754**): 2
- Cancer Cell (IF **26.602**): 2
- Cancer Chemotherapy Pharmacology (IF **2.967**): 1
- Cancer Immunology Research (IF **8.728**): 3
- Cancer Research (IF **9.727**): 12
- Cancer Treatment Reviews (IF **8.730**): 2
- Cancer (IF **5.742**): 5
- Case Reports Hematology (IF N/A): 2
- Case Reports in Medicine (IF N/A): 2
- Case Reports in Obstetrics Gynecology (IF N/A): 1
- Case Reports in Oncology Medicine (IF N/A): 1
- Cell (IF **38.637**): 1
- Angewandte Chemie (IF **12.959**): 1
- Clinical Anatomy (IF **1.967**): 1
- Clinical Breast Cancer (IF **2.703**): 1
- Clinical Colorectal Cancer (IF **3.245**): 2
- Clinical Lymphoma, Myeloma, & Leukemia (IF **2.02**): 3
- Clinical Teacher (IF **0.740**): 1
- Clinical Cancer Research (IF **10.107**): 15
- Clinical Case Reports (IF **0.50**): 1
- Contemporary Clinical Trials (IF **1.832**): 1
- Cureus (IF N/A): 1
- Current Treatment Options in Oncology (IF **3.890**): 1
- Diabetes Technology & Therapeutics (IF **5.070**): 1
- ESC Heart Failure (IF **3.407**): 1
- Frontiers in Psychology (IF **2.067**): 1
- Frontiers in Oncology (IF **4.848**): 2
- Genome Biology (IF **10.806**): 2
- Haematologica (IF **7.57**): 5
- Hospital Pediatrics (IF **1.150**): 1
- Human Gene Therapy (IF **4.273**): 2

- International Heart Journal (IF **2.226**): 1
- International Journal of Pediatric Endocrinology (IF **0.290**): 1
- Iranian Journal of Pharmaceutical Research (IF **1.250**): 1
- Journal of Asthma (IF **1.899**): 1
- Journal of Attention Disorders (IF **3.161**): 1
- Journal of Biophotonics (IF **3.763**): 1
- Journal of Clinical Medicine (IF **3.303**): 2
- Journal of Education in Perioperative Medicine (IF **N/A**): 1
- Journal of Electrocardiology (IF **0.944**): 1
- Journal of Emergency Medicine (IF **1.224**): 1
- Journal of Geriatric Oncology (IF **2.761**): 1
- Journal of Immunotherapy Cancer (IF **9.913**): 2
- Journal of Immunotherapy (IF **9.913**): 1
- Journal of International Neuropsychology Society (IF **2.576**): 1
- Journal of Medicinal Chemistry (IF **6.205**): 3
- Journal of National Cancer Institute (IF **12.589**): 4
- Journal of Neuro-Oncology (IF **3.267**): 1
- Journal of Neurosurgery-Pediatrics (IF **2.117**): 1
- Journal of Pediatric Psychology (IF **2.412**): 1
- Journal of Surgical Oncology (IF **3.244**): 1
- JAMA Oncology (IF **24.799**): 3
- JCI Insight (IF **6.205**): 1
- Journal of Clinical Oncology (IF **32.956**): 2
- Journal of the National Cancer Institute (IF **12.589**): 1
- Journal of Parenteral and Enteral Nutrition (IF **3.151**): 1
- Lancet Oncology (IF **33.752**): 1
- Leukemia Research (IF **2.319**): 1
- Medical Education Online (IF **1.970**): 1
- Methods in Molecular Biology (IF **10.71**): 2
- Molecular Cancer Research (IF **1.356**): 3
- Molecular Therapy: Methods & Clinical Development (IF **4.533**): 2
- Molecular and Cellular Biology (IF **3.735**): – 2
- Molecular Genetics & Genomic Medicine (IF **1.995**): 1
- Molecular Therapy (IF **8.402**): 6
- Nature Cell Biology (IF **20.042**): 1
- Nature Genetics (IF **27.603**): 1
- Nature Reviews Clinical Oncology (IF **53.276**): 2
- Nature (IF **9.435**): 3
- Nature Communications (IF **12.121**): 7
- Nature Medicine (IF **36.130**): 1
- Neurology (IF **8.770**): 2
- Nucleic Acids Research (IF **11.501**): 1
- Oncogene (IF **7.971**): 2
- OncoImmunology (IF **4.910**): 2
- Oncologist (IF **5.260**): 1
- Pediatric Allergy Immunology (IF **4.699**): 1
- Pediatric Blood & Cancer (IF **2.355**): 2
- Pediatric Critical Care Medicine (IF **2.854**): 1
- Pharmacogenetics and Genomics (IF **2.860**): 1
- PLoS Genetics (IF **5.540**): 1
- PLoS One (IF **2.740**): 1
- Proceeding of the National Academy of Sciences of the USA (IF **9.412**): 4
- Prostate (IF **3.279**): 2
- Science Advances (IF **13.116**): 1

- Scientific Data (IF **5.541**): 1
- Scientific Reports (IF **3.998**): 1
- Science Translational Medicine (IF **16.304**): 1
- Seminars in Thoracic and Cardiovascular Surgery (IF **2.133**): 1
- TH Open (IF N/A): 1
- The Breast (IF **3.754**): 1
- Transactions of the American Clinical & Climatological Association (IF N/A): 1
- Transfusion (IF **2.8**): 2
- Transplant Infectious Disease (IF **2.071**): 2
- US Patent App (IF N/A): 1

Books/Book Chapters

Courtney Miller-Chism, M.D.

- *Handbook of Benign Hematology*: Martha Pritchett Mims M.D. Ph.D. (Editor), Courtney Miller-Chism M.D. (Editor), Iberia Sosa M.D. Ph.D. (Editor)

Martha Mims, M.D., Ph.D.

- *Handbook of Benign Hematology*: Martha Pritchett Mims M.D. Ph.D. (Editor), Courtney Miller-Chism M.D. (Editor), Iberia Sosa M.D. Ph.D. (Editor)

Gustavo Rivero, M.D.

- *Handbook of Benign Hematology*: Book chapter – “myeloproliferative neoplasm” Martha Pritchett Mims M.D. Ph.D. (Editor), Courtney Miller-Chism M.D. (Editor), Iberia Sosa M.D. Ph.D. (Editor)

Iberia Sosa, M.D.

- *Handbook of Benign Hematology*: Martha Pritchett Mims M.D. Ph.D. (Editor), Courtney Miller-Chism M.D. (Editor), Iberia Sosa M.D. Ph.D. (Editor)

PRESS

Tannaz Armaghany, M.D.

- ONC-Live March 12, 2020, March 25, 2020, April 3, 2020, June 3, 2020
 - Utility of ctDNA in colorectal cancer
 - Gene sequencing in colorectal cancer
 - Frontline sorafenib vs lenvatinib in hepatocellular carcinoma
 - MATCH trial in colorectal cancer

Helen Heslop, M.D.

- Sharma S, Leume W, Heslop HE Virus-specific T cells for malignancies – then, now and where to? *Current Stem Cell Reports*

Ang Li, M.D., Ph.D.

- <https://www.tmc.edu/news/2020/06/blood-type-may-affect-covid-19-outcomes-study-shows/>

Benjamin Musher, M.D.

- Interview for *Cancer Therapy Advisor* for online press release, December 16, 2019: “BEACON May Not Be the “Worst” Trial Ever, but a Key Question Remains.”
<https://www.cancertherapyadvisor.com/home/cancer-topics/gastrointestinal-cancers/colorectal-cancer-mcrc-beacon-may-not-be-worst-trial-ever/2/>
- Interview for MedPage today for online press release, April 23, 2020: “Another Step Towards Earlier Detection of Pancreatic Cancer.”
<https://www.medpagetoday.com/gastroenterology/pancreaticdiseases/86119>
- Interview for local Fox News 26 about Colon Cancer Awareness Month, March 9, 2020
- Press conference with Mayor Sylvester Turner about Colon Cancer Awareness Month, March 9, 2020

Gustavo Rivero, M.D.

- <https://www.aamds.org/podcast/aamdsif-podcast-patients-dr-gustavo-rivero-discusses-low-risk-mds> AAMDSIF Podcast for Patients: Dr. Gustavo Rivero discusses Low-Risk MDS, March 12, 2020
- <https://www.baylorcme.org/trans/cme.cfm?activityID=442&cmepage=presentations> Video Presentation: What should we know about the origin and treatment of low-risk myelodysplastic syndrome?

Daniel Wang, M.D.

- Bennett, Christina. “Standardization Arrives for Neoadjuvant Trials in Melanoma.” Cancer Network, August 6, 2019, <https://www.cancernetwork.com/news/standardization-arrives-neoadjuvant-trials-melanoma>
- Bennett, Christina. “Study Moves the Needle for Melanoma Patients with Rare BRAF Mutations.” Cancer Network, October 17, 2019, <https://www.cancernetwork.com/melanoma/study-moves-needle-melanoma-patients-rare-braf-mutations>
- Blanton, Nicole. “Understanding sarcoma, one of the rarest cancers.” BCM Momentum Blog, July 31, 2019, <https://blogs.bcm.edu/2019/07/31/understanding-sarcoma-one-of-the-rarest-cancers/>
- Boyle, Erin. “Let’s Talk About Cancer Screenings and Tests.” <https://www.healthcentral.com/condition/cancer-screenings-tests>. Published May 27, 2020
- Boyle, Erin. “Let’s Talk About Cancer Medication.” <https://www.healthcentral.com/condition/cancer-medication>. Published June 3, 2020
- Chiu, Molly, “Immunotherapy improves quality of life for mesothelioma patient.” BCM Momentum Blog, November 19, 2019, <https://blogs.bcm.edu/2019/11/19/immunotherapy-improves-quality-of-life-for-mesothelioma-patient/>

CENTERS

Dan L Duncan Comprehensive Cancer Center

The mission of the DLDC is to further reduce suffering and mortality from cancer through its research, education, patient care, and outreach activities. Our Center is a matrix cancer center with research members from nearly all College departments and academic units who have a commitment to cancer research and/or patient care. The DLDC exists to facilitate the research of its members, to bring together researchers from different departments and centers for collaborative, multidisciplinary approaches to cancer, and to provide infrastructure support for the conduct of cancer research

The Center for Gene Therapy

The Center for Cell and Gene Therapy provides an infrastructure to rapidly translate novel cell and gene therapy protocols from the laboratory to the clinic. The comprehensive approach of the center brings a wide variety of scientists and clinicians together to develop strategies for the treatment of cancer and other diseases.

Lester and Sue Smith Breast Center

Our team of breast health specialists bring together a collaboration of physicians and scientists who offer expertise in prevention, diagnosis, and treatment of both breast cancer and benign breast conditions. As part of the National Cancer Institute-designated DLDC at BSLMC, our physicians are among the best in their field and are committed to patient care, applying the latest clinical research to improve treatment options.