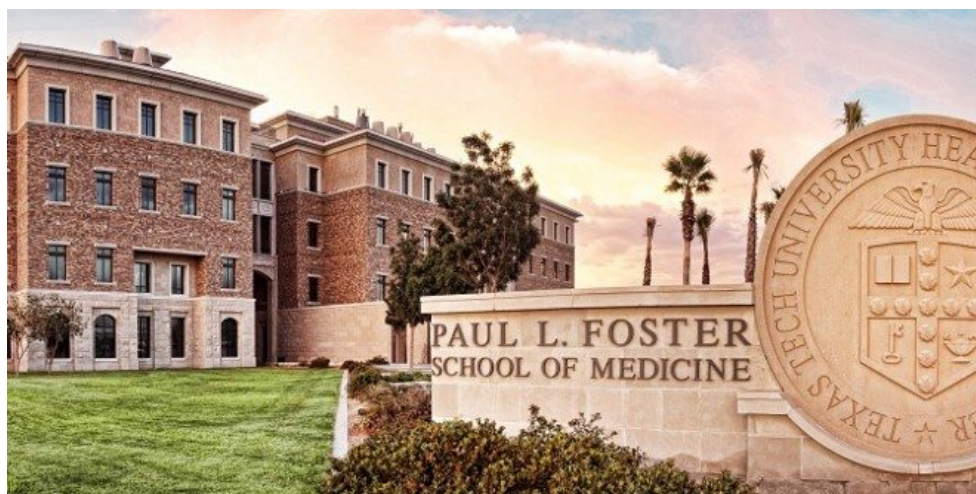


Annual Research Productivity Report



TEXAS TECH UNIVERSITY
HEALTH SCIENCES CENTER™
EL PASO

Paul L. Foster School of Medicine
Department of Internal Medicine



Department of Internal Medicine

FY 2020

1 September 2019 – 30 June 2020



Prepared by: Sean M. Connery

Dear Friends—

I am very pleased to bring to you the **Department of Internal Medicine's Annual Research Productivity Report** for FY20. Please note the abbreviated 10-month reporting period this year to better time with reporting for accreditation of our residency and fellowship programs.

First of all, let me take this opportunity to thank our faculty, residents and fellows for their hard work and clinical service during these challenging times in our community with the COVID-19 pandemic. In addition, our research efforts did not escape the challenges that came with the COVID-19 but we weathered the storm well by shifting priorities and working remotely as needed. The Department had another productive year with **58** peer-reviewed publications, several textbook chapters and number of regional and national presentations. While the number of publications remains impressive and is an important metric, what impresses me is the quality of the articles and the high-impact journals they are published in. Let me take this opportunity to congratulate our faculty, residents and fellows, who despite an extremely busy clinical workload these past several months, continue to excel in other academic endeavors, namely teaching and research. I would also like to thank Dr. Jerzy Sarosiek for his tireless efforts to promote research amongst our faculty, residents and medical students and being a resource to them. Of note, I have created a separate category this year for COVID-19-related publications and online perspectives.

I am happy to note that our house staff remain very productive and reflect their commitment, enthusiasm and also mentoring/guidance by our program directors. Our faculty received research funding from both public and private sources, and the clinical research enterprise continues to grow under the stewardship of Mr. Sean Connery.

I hope next year Internal Medicine will be even more productive, and each and every one of us will need to put in the effort to make this possible. Of note, this year we have added a **QR** code to the front of this report which will take you to the electronic version of this report.

Finally, I wish all of you a fun and productive COVID-FREE fall season!

A handwritten signature in black ink that reads "Debabrata". The script is cursive and fluid.

Debabrata Mukherjee, M.D., M.S.
Chair, Department of Internal Medicine

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IM Faculty Member

*Citation format – Uniform requirements for manuscripts submitted to biomedical journals:
International Committee of Medical Journal Editors

PUBMED PEER REVIEW PUBLICATIONS

JOURNAL ARTICLES, ORIGINAL INVESTIGATIONS

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4. Cruz Rodriguez JB, Stewart GC, Pamboukian SV, Tallaj JA, Rajapreyar I, Kirklin JK, Holman WL, Hoopes CW, **Mukherjee D**, et al. Clinical characteristics and outcomes of patients requiring prolonged inotropes after left ventricular assist device implantation. *Artif Organs* 2020 Apr 3. PMID: [32242954](#)
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9. He M, Panchangam S, Cruz B, **Mukherjee D**. [Underutilization of Cardiac Therapies in Patients with Acute Ischemic Stroke and Elevated Troponin](#). *Cardiovasc Hematol Agents Med Chem*. 2019;17(2):144-151. PMID: [31629400](#)
10. Koch KL, Hasler WL, Van Natta M, Calles-Escandon J, Grover M, Pasricha PJ, Snape WJ, Parkman HP, Abell TL, **McCallum RW**, Nguyen LA, **Sarosiek I**,...; NIDDK Gastroparesis Clinical Research Consortium. [Satiety testing in diabetic gastroparesis: Effects of insulin pump therapy with continuous glucose monitoring on upper gastrointestinal symptoms and gastric myoelectrical activity](#). *Neurogastroenterol Motil*. 2020 Jan;32(1):e1372. PMID: [31574209](#)
11. **Mendoza Ladd A**, Bashashati M, Contreras A, Umeanaeto O, Robles A. [Endoscopic Pancreatic Necrosectomy in the United States-Mexico Border: A Cross Sectional Study](#). *World J Gastrointest Endosc* 2020 May 16;12(5):149-158. PMID: [32477449](#)
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16. Rezaie A, Heimanson Z, **McCallum R**, Pimentel M. [Lactulose Breath Testing as a Predictor of Response to Rifaximin in Patients With Irritable Bowel Syndrome With Diarrhea](#). *Am J Gastroenterol*. 2019 Dec;114(12):1886-1893. PMID: [31688023](#)
17. Robles A, Bashashati M, Contreras A, Chávez LO, Cerro-Rondón AD, Cu C, McAlice M, **Deoker A**. [Colorectal Cancer in Hispanics living near the U.S.-Mexico Border](#). *Rev Invest Clin*. 2019;71(5):306-310. PMID: [31599880](#)
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21. Vidal-Martinez G, Chin B, Camarillo C, Herrera GV, Yang B, **Sarosiek I**, Perez RG. [A Pilot Microbiota Study in Parkinson's Disease Patients versus Control Subjects, and Effects of FTY720 and FTY720-Mitoxoy Therapies in Parkinsonian and Multiple System Atrophy Mouse Models.](#) *J Parkinsons Dis.* 2020;10(1):185-192. PMID: [31561385](#)

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3. Bhupathi V, Mazariegos M, Cruz Rodriguez JB, **Deoker A.** [Dairy Intake and Risk of Cardiovascular Disease.](#) *Curr Cardiol Rep.* 2020 Jan 29;22(3):11. PMID: [31997094](#)
4. Cruz Rodriguez JB, **Alkhateeb H.** [Beta-Blockers, Calcium Channel Blockers, and Mortality in Stable Coronary Artery Disease.](#) *Curr Cardiol Rep.* 2020 Jan 29;22(3):12. PMID: [31997014](#)
5. Cruz Rodriguez JB, **Kar S.** [Management of Angina Post Percutaneous Coronary Intervention.](#) *Curr Cardiol Rep.* 2020 Jan 21;22(2):7. PMID: [31965355](#)
6. Gonzalez Z, **McCallum R.** [Small Bowel Dysmotility, Pseudoobstruction, and Functional Correlation with Histopathology: Lessons Learned.](#) *Curr Gastroenterol Rep.* 2020 Feb 20;22(3):14. PMID: [32078071](#)
7. Gonzalez Z, Herlihy D, Phan C, Diaz J, Dominguez K, **McCallum R.** [Alcohol and gastric motility: pathophysiological and therapeutic implications.](#) *J Investig Med.* 2020;68(5):965-971. PMID: [32447287](#)
8. Gonzalez Z, Loganathan P, **Sarosiek I, McCallum RW.** [Gender-Related Differences in Gastroparesis.](#) *Am J Med Sci.* 2020;S0002-9629(20)30148-8. PMID: [32527595](#)
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 12. **Kar S**. Systematic review of alternative access for cardiac catheterization and percutaneous coronary intervention: Dorsal distal radial and ulnar artery catheterization. *Catheter Cardiovasc Interv*. 2019 Nov 1;94(5):706-713. PMID: [31328885](#)
 13. **Kar S**. Elevated Lipoprotein A in South Asians and the Associated Risk of Cardiovascular Disease: A Systematic Review. *Curr Probl Cardiol*. 2020;100581. PMID: [32295712](#)
 14. **Lehker A, Mukherjee D**. Coronary Calcium Risk Score and Cardiovascular Risk. *Curr Vasc Pharmacol*. April 2020;10.2174/1570161118666200403143518 PMID: [32242784](#)
 15. Murtaza G, **Mukherjee D**, Gharacholou SM, Nanjundappa A, Lavie CJ, Khan AA, Shanmugasundaram M, Paul TK. An updated review on myocardial bridging. *Cardiovasc Revasc Med*. 2020 Feb 18;S1553-8389(20)30084-1. PMID: [32173330](#)
 16. Myneedu K, **Deoker A**, Schmulson MJ, Bashashati M. Fecal microbiota transplantation in irritable bowel syndrome: A systematic review and meta-analysis. *United European Gastroenterol J*. 2019 Oct;7(8):1033-1041. PMID: [31662860](#)
 17. **Nagarajarao HS, Ojha CP**, Mulukutla V, **Ibrahim A**, Mares AC, Paul TK. Current Use and Trends in Unprotected Left Main Coronary Artery Percutaneous Intervention. *Curr Cardiol Rep*. 2020 Feb 8;22(4):16. PMID: [32036460](#)
 18. **Nagarajarao HS, Ojha CP**, Kedar A, **Mukherjee D**. Patent foramen ovale, role of antiplatelet therapy alone or anticoagulant therapy alone versus device closure for cryptogenic stroke: A review of literature and current recommendations. *Cardiovasc Hematol Agents Med Chem*. 2020;10.2174/1871525718666200203111641. PMID: [32013839](#)
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 22. Umopathy C, Gajendran M, Mann R, Boregowda U, Theethira T, **Elhanafi S**, et al. Pancreatic fluid collections: Clinical manifestations, diagnostic evaluation and management. *Dis Mon*. 2020 Apr 17;100986. PMID: [32312558](#)

CASE REPORTS

- 1) **Mendoza Ladd A.** ERCP with a cap-assisted gastroscope for an intradiverticular ampulla. *Endoscopy.* 2020 Feb;52(2):E61-E62. PMID: [31529438](#)
- 2) Umeanaeto O, Gamboa J, Diaz J, Hakim MN, **Corral J, Philipovskiy A, Gaur S.** Incorporating Bortezomib in the Management of Plasmablastic Lymphoma. *Anticancer Res.* 2019 Sep;39(9):5003-5007. PMID: [31519607](#)

EDITORIAL/COMMENTARY

1. Klein LW, Box L, Krishnan S, **Kar S**, et al; Government Relations Committee and the Executive Committee of SCAI. In defense of the AMA/specialty society RVS update committee (RUC). *Catheter Cardiovasc Interv.* 2020 Apr 10. PMID: [32274900](#)
2. Maurer AH, Abell T, Bennett P, Diaz JR, Harris LA, Hasler W, Iagaru A, Koch KL, **McCallum RW**, et al. Appropriate Use Criteria for Gastrointestinal Transit Scintigraphy *J Nucl Med.* 2020 Mar;61(3):11N-17N.PMID:[32123132](#)
3. **Mukherjee D.** Tailoring strategies to optimize ischaemic benefit vs. bleeding risk in individuals post-myocardial infarction. *Eur Heart J.* 2020 Feb 14;41(7):844-846. PMID: [31504410](#)
4. **Mukherjee D.** Coronary Revascularization in the United States-Patient Characteristics and Outcomes in 2020. *JAMA Netw Open.* 2020 Feb 5;3(2):e1921322. PMID: [32058547](#)
5. **Mukherjee D.** Cardiovascular and Hematological Medicine in 2019 - Advances and Insights. *Cardiovasc Hematol Agents Med Chem.* 2019;17(1):2. PMID: [31556359](#)
6. Porres-Aguilar M, Anaya-Ayala JE, Jiménez D, **Mukherjee D.** Pulmonary Embolism Response Teams: Pursuing Excellence in the Care for Venous Thromboembolism. *Arch Med Res.* 2019 Jul;50(5):257-258.. PubMed PMID: [31593849](#)
7. Porres-Aguilar M, Jiménez D, Porres-Muñoz M, **Mukherjee D.** Pulmonary embolism response teams: Purpose, evidence for efficacy, and future research directions. *Res Pract Thromb Haemost.* 2019 Aug 9;3(4):769. PMID: [31624797](#)
8. Porres-Aguilar M, Ayala A, **Mukherjee D**, Tapson VF. Pulmonary embolism response teams in the challenging era of venous thromboembolism associated with COVID-19. *J Vasc Surg Venous Lymphat Disord.* 2020 Jun 1:S2213-333X(20)30320-6. PMID: [32497628](#).
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10. Shanker A, **Siddiqui T**, Bashashati M. An invited commentary on "Liu Z, Ding Z, Guan X, Zhag Y, Wang X, Khan JS. Optimizing response in surgical systems during and after COVID-19 pandemic:

Lessons from China and the UK - Perspective. *Int J Surg* 2020 May 4;78:156-159.". *Int J Surg*. 2020 May 19;79:60-61. PMID: 32442686

11. Thongprayoon C, Hansrivijit P, Kovvuru K, Kanduri SR, Torres-Ortiz A, **Acharya P**, et al. [Diagnostics, Risk Factors, Treatment and Outcomes of Acute Kidney Injury in a New Paradigm.](#) *J Clin Med*. 2020 Apr 13;9(4). PMID: [32294894](#)
12. Thongprayoon C, Hansrivijit P, Leeaphorn N, **Acharya P**, Torres-Ortiz A, et al. [Recent Advances and Clinical Outcomes of Kidney Transplantation.](#) *J Clin Med*. 2020 Apr 22;9(4). PMID: [32331309](#)

LETTER TO THE EDITOR/JOURNAL ANNOUNCEMENTS

1. **McCallum RW**. [Richard W. McCallum, MD: New Editor-in-Chief, Journal of Investigative Medicine.](#) *J Investig Med*. 2020 Jan;68(1):1-2. PMID: [31857438](#)

BOOKS/BOOK CHAPTERS

BOOKS:

BOOK CHAPTERS:

1. Al-Bayati I; Al-Obaidi S, **McCallum RW**. Chapter 5: [Stool Incontinence: Treatment and Outcomes](#) In: [Diagnosis and Management Guide for Anorectal Disease: A Clinical Reference](#) Editor: Waqar Ahmed Qureshi, MD. Publisher: Slack Incorporated; 1 edition (October 15, 2019), Thorofare, NJ
2. Avalos DJ, Robles A, Paik IJ, Hershman M, **McCallum RW**. (Chapter 20) [Nausea, belching, and rumination disorders](#). In: Rao S, Lee Y, Ghoshal U, ed. [Clinical and Basic Neurogastroenterology & Motility - 1st Edition](#). San Diego, Ca: Elsevier; 2019: 293-302.
3. **Lange RA** and Cigarroa JE. [Congenital Heart Disease](#). In: Kellerman RD, Rakel DP (eds). "Conn's Current Therapy 2020 (Expert Consult: Online and Print)." Philadelphia: Elsevier; 2020, Section 3, "Chapter 28, pages 108-113
4. **Lange RA and Mukherjee D**. [Acute Coronary Syndrome: Unstable Angina and Non-ST Elevation Myocardial Infarction](#). In Goldman L, Schaefer AI (eds). "Goldman-Cecil Medicine, 26th edition." Philadelphia: Elsevier; 2020. Chapter 63, 379-388.
5. **McCallum RW**, Malhotra A, Bustamante-Bernal MA, Chavez LO. (2019) [Gastroparesis in Older Adults](#) pp 1-16. In: Pitchumoni C., Dharmarajan T. (eds) [Geriatric Gastroenterology](#). Springer, Cham

6. **Mendoza Ladd A**, et al. (2019). “Follow-up of patients with chronic pancreatitis in clinical practice: How and what for?” In J. Enrique Domínguez-Muñoz. Editor. Clinical Pancreatology for Practicing Gastroenterologists and Surgeons. 2nd Edition. United States, Wiley-Blackwell,2020.

MULTIMEDIA/Online Publications

1. **Mendoza-Ladd A**. ERCP with a cap-assisted gastroscope for an intradiverticular ampulla. Endoscopy. 2020 Feb;52(2):E61-E62. PMID: [31529438](#)
2. **Mendoza-Ladd A** and **Elhanafi S**. Advanced endoscopy continues to improve El Paso Physician TV show. February 28th, 2020. <https://www.pbs.org/video/advanced-endoscopy-continues-to-improve-z8dwej/>
3. **Mukherjee D**. El Paso Physicians TV Show - Advancements in Cardiac Care at UMC, Aired February 28th, 2020, <https://www.pbs.org/video/advancements-in-cardiac-care-at-umc-jxf6h1/>
4. **Mukherjee D**. Optimizing risk factors and management of chronic coronary artery disease in patients with type 2 diabetes. Available in: *American Heart Association Professional Heart Daily*. https://professional.heart.org/professional/ScienceNews/UCM_505892_Optimizing-Risk-Factors-and-Management-of-Chronic-CAD-in-Patients-with-T2DM.jsp Posted April 13, 2020
5. Carrion A, **Zuckerman MJ**. Barrett esophagus. BMJ Best Practice. March 2019.
6. **Zuckerman MJ**, Carrion A. Gastroesophageal reflux disease. BMJ Best Practice Nov 2019

COVID – 19 related PUBLICATIONS/Perspectives

1. Porres-Aguilar M, Ayala A, **Mukherjee D**, Tapson VF. Pulmonary embolism response teams in the challenging era of venous thromboembolism associated with COVID-19. *J Vasc Surg Venous Lymphat Disord*. 2020 Jun 1:S2213-333X(20)30320-6. PMID: [32497628](#).
2. **Mukherjee D**: Association between Universal Masking and SARS-CoV-2 Positivity. <https://www.acc.org/latest-in-cardiology/journal-scans/2020/07/15/11/23/association-between-universal-masking-in-a-health>
3. **Mukherjee D**: Use of N95, Surgical, Cloth Masks to Prevent COVID-19 <https://www.acc.org/latest-in-cardiology/journal-scans/2020/06/30/13/03/use-of-n95-surgical-and-cloth>
4. **Mukherjee D**: Temperature, Humidity, Latitude, and Seasonality of COVID-19 <https://www.acc.org/latest-in-cardiology/journal-scans/2020/06/16/13/23/temperature-humidity-and-latitude-analysis>
5. **Mukherjee D**: Cardiac Manifestations in COVID-19: Echocardiographic Study <https://www.acc.org/latest-in-cardiology/journal-scans/2020/06/09/13/19/the-spectrum-of-cardiac-manifestations>

6. **Mukherjee D:** COVID-19 and Thrombotic or Thromboembolic Disease <https://www.acc.org/latest-in-cardiology/ten-points-to-remember/2020/06/08/15/31/covid-19-and-thrombotic-or-thromboembolic>
7. **Mukherjee D:** Black Patients and White Patients With COVID-19 <https://www.acc.org/latest-in-cardiology/journal-scans/2020/06/01/12/37/hospitalization-and-mortality-among-black-patients>
8. **Mukherjee D:** Ventilation Techniques and Risk for Transmission of COVID-19 <https://www.acc.org/latest-in-cardiology/ten-points-to-remember/2020/05/29/11/32/ventilation-techniques-and-risk-for-transmission>
9. **Mukherjee D:** Outcomes of Patients Hospitalized for COVID-19 and Cardiac Disease <https://www.acc.org/latest-in-cardiology/journal-scans/2020/05/15/12/34/characteristics-and-outcomes-of-patients-hospitalized>
10. **Mukherjee D:** Controversy in Managing Acute MI in the COVID-19 Era <https://www.acc.org/latest-in-cardiology/ten-points-to-remember/2020/04/06/11/32/recommendations-from-the-peking-union-medical>

Abstracts

1. **Acharya P,** Kovvuru K, Vailta P, Kanduri S. **The heart of calcium.** *J Am Soc Nephrol* 30, 2019: 583.
2. **Agrawal H,** Mahadevan V, Sievert H, Shunk K, Dwivedi A, Mallawaarachchi I, **Siddiqui T,** **Mukherjee D.** Patient Foramen Ovale Closure Versus Anti-thrombotic Therapy For Patients With Cryptogenic Stroke: An Updated Meta-analysis Of Randomized Clinical Trials *Circulation.* 2019;140:A15232
3. Badhiwala V, Herlihy JD IV, **McCallum R,** Hernandez CM. **Plummer-Vinson Syndrome: A Time for a Redefinition and New Perspective.** *Am J Gastroenterol* 114:S984-S985, October 2019.
4. Bencomo AE, Rubio AJ, Gonzalez MA, Olivas IM, Lara J, Ghimire K, Padilla O, Padilla A, Hakim N, Orazi A, **Corral J,** **Philipovskiy A,** **Gaur S,** Eiring AM. **Retrospective Study of Incidence and Survival for Patients with Hematologic Malignancies Residing at the U.S./Mexico Border.** *Blood* (2019) 134 (Supplement_1): 4782.
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Resident & Fellow Research (PGY 1-6)
Internal Medicine, Med/Psychiatry, and Preliminary (Neurology) Residents
Fellows Gastroenterology and Cardiology
Residents/Fellows (PGY 1-6) – Faculty Mentor

JOURNAL ARTICLES, ORIGINAL INVESTIGATIONS

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LETTER TO THE EDITOR/EDITORIALS/COMMENT

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Abstracts

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OPEN, ACTIVE, ONGOING RESEARCH

Investigator Initiated Research Studies

GRANT FUNDED FY20

- **New Concepts for Advancing Knowledge in Basic Science, Clinical, and Therapeutic Aspects of Gastroparesis** **Co-PIs- Richard McCallum, MD and Irene Sarosiek, MD**
National Institutes of Health - National Institute of Diabetes and Digestive and Kidney Diseases
(NIH/NIDDK). 09/25/2016 - 08/31/2021 \$1,870,531

FY17	\$382,500
FY18	\$378,366
FY19	\$374,151
FY20	\$369,887
FY21	\$365,627
	=====
	\$1,870,531

- **Evaluation of mutation and gene expression profiles in breast cancers derived from Hispanic women** - **Alexander Philipovski, MD** – UTEP Border Biomedical Research Center (BBRC) Sub-Award- National Institute on Minority Health and Health Disparities (NIH). 03/01/2020 – 02-28-2021 \$40,000

- **Pathway Exploration and Analysis in Renal Lupus (PEARL)** - Accelerating Medicines Partnership (AMP) – **PI: F. Payan-Schober, MD, Sub-I A Ahmad, MD.** Public-private partnership between the National Institutes of Health (NIH), the U.S. Food and Drug Administration (FDA), 10 biopharmaceutical companies and multiple non-profit organizations. NIH - National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) and the National Institute of Allergy and Infectious Diseases (NIAID).

Start Up Phase	July 2015 – Dec 2015	\$9,333
Phase 0	Dec 2015 – May 2016	\$12,401
Phase 1	Jan 2016- Aug 2016	\$29,535
Phase 2	June 2017 – 31 May 2020	\$66,290
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	Total	\$117,559

Department of Internal Medicine Pilot Small Projects Funded - Cycle 10-11.

- Dr. Tamis Bright: **Bone Density and Aromatase Inhibitors**
- Dr. Harsha S. Nagarajarao: **A 5-Year Retrospective Analysis for Congenital Coronary Artery Anomalies in Adult Patients of Hispanic Origin at the University Medical Center of El Paso**
- Dr. Alexander Philipovskiy: **Study of the relationship between the tumor gene-expression profiles and the response to neoadjuvant chemotherapy in patients with local or locally advanced breast cancer**
- Dr. Irene Sarosiek: **Endocannabinoid gene polymorphisms in diabetic gastroparesis: a case control study**
- Dr. Marc Zuckerman: **The epidemiology of functional gastrointestinal disorders on the U.S Mexico Border based on Rome IV criteria**

Pharmaceutically Sponsored Clinical Research Studies Open, Active Clinical Trials

- **A Phase III, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Efficacy and Safety of GDC-0077 Plus Palbociclib and Fulvestrant Versus Placebo Plus Palbociclib and Fulvestrant in Patients with PIK3CA-Mutant, Hormone Receptor Positive, HER2-Negative Locally Advanced or Metastatic Breast Cancer.** Pharmaceutical Sponsor: Genentech, Inc. Roche Group, Syneos Health, LLC, F. Hoffmann-La Roche Ltd. Site Investigator: **Alexander Philipovskiy, MD**
- **Expanded Access to Convalescent Plasma for the Treatment of Patients with COVID-19.** Mayo Clinic. Site Investigator: **Harold Hughes, MD**
- **A Multicenter, Randomized, Double-Blinded, Placebo-Controlled Trial to Evaluate the Safety and Efficacy of Inhaled Treprostinil in Subjects with Pulmonary Hypertension due to Parenchymal Lung Disease (INCREASE Study).** Pharmaceutical Sponsor: United Therapeutics Corporation. Site Investigator: **Hernando Garcia, MD – Debabrata Mukherjee, MD**
- **An Open-Label Extension study of Inhaled Treprostinil in Subjects with Pulmonary Hypertension due to Parenchymal Lung Disease. (INCREASE Extension)** Pharmaceutical Sponsor: United Therapeutics Corporation. Site Investigator: **Hernando Garcia, MD - Debabrata Mukherjee, MD.**

- **A Multicenter, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Safety and Efficacy of Oral Treprostinil in Subjects with Pulmonary Hypertension (PH) in Heart Failure with Preserved Ejection Fraction (HFpEF) (SOUTHPAW Study).** Pharmaceutical Sponsor: United Therapeutics Corporation. Site Investigator: **Haider Alkhateeb, MD/; Alejandro Marmol-Velez, MD.** Site-Sub-Investigator: Hernando Garcia, MD.
- **Phase 2 Multicenter, Double-Blind, Placebo Controlled, Efficacy, Safety, and Pharmacokinetic Study of 2 Doses of CXA-10 on Stable Background Therapy in Subjects with Pulmonary Arterial Hypertension (PAH) (PRIMEx Study).** Pharmaceutical Sponsor: Complexa Inc. Site Investigator: **Hernando Garcia, MD - Debabrata Mukherjee, MD**
- **A Phase 2, Multi-Center, Open-Label Study to Evaluate Long-term Safety and Efficacy of CXA-10 in Subjects with Pulmonary Arterial Hypertension on Stable Background Therapy: (Extension to Study CXA-10-301).** Pharmaceutical Sponsor: Complexa Inc. Site Investigator: **Hernando Garcia, MD - Debabrata Mukherjee, MD.**
- **Phase IIa Trial Evaluating the Safety of Intratumoral Injection of NanoPac in Subjects with Locally Advanced Pancreatic Adenocarcinoma.** Pharmaceutical Sponsor: US Biotest, Inc. Site Investigator: **Antonio Mendoza Ladd, MD.** Site Sub-Investigator: Sumit Gaur, MD.
- **A Trial Evaluating Escalating Doses and the Safety of Intracystic Injection of NanoPac® in Subjects with Mucinous Cystic Pancreatic Neoplasms.** Pharmaceutical Sponsor: US Biotest, Inc. Site Investigator: **Antonio Mendoza Ladd, MD.** Site Sub-Investigator: Sumit Gaur, MD.
- **A Phase 1, Single Dose PK And Safety Study With Ni-03 Followed By A Phase 2, Randomized, Double-Blind, Parallel-Group Dose-Ranging Study To Evaluate The Safety And Efficacy Of Ni-03 Compared To Placebo In Subjects With Chronic Pancreatitis.** Pharmaceutical Sponsor: Stason Pharmaceuticals, Inc. Site Investigator: **Antonio Mendoza Ladd, MD.** Site Sub-Investigator: Marc Zuckerman, MD.
- **A Phase 3b, Randomized, Double-blind, Placebo-controlled, Parallel-group Trial of Linaclotide 290 µg Administered Orally for 12 Weeks Followed by a 4-week Randomized Withdrawal Period in Patients with Irritable Bowel Syndrome with Constipation.** Pharmaceutical Sponsor: Ironwood Pharmaceuticals. Site Investigator: **Marc Zuckerman, MD.** Site Sub-Investigator: Antonio Mendoza Ladd, MD

- **A Phase 3, Randomized, Double-blind, Placebo-controlled, Parallel-group, Multicenter Trial of Oral IW-3718 Administered to Patients with Gastroesophageal Reflux Disease while receiving Proton Pump Inhibitors.** Pharmaceutical Sponsor: Ironwood Pharmaceuticals. Site Investigator: **Marc Zuckerman, MD**. Site Sub-Investigator: Antonio Mendoza Ladd, MD.
- **A Phase 2, Randomized, Double-blind, Placebo-controlled, Parallel-group, Dose-range-finding Study of MD-7246 Administered Orally for 12 Weeks to Treat Abdominal Pain in Patients with Diarrhea-predominant Irritable Bowel Syndrome.** Pharmaceutical Sponsor: Ironwood Pharmaceuticals. Site Investigator: **Marc Zuckerman, MD** Site Sub-Investigator: Antonio Mendoza Ladd, MD.
- **A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Phase 2b Study to Evaluate the Efficacy and Safety of Twice-Daily Oral Administration of a Peripherally Acting Dopamine Receptor D2/D3 Antagonist, TAK-906 for the Treatment of Adult Subjects With Symptomatic Idiopathic or Diabetic Gastroparesis.** Pharmaceutical Sponsor: Takeda Pharm. **Richard McCallum, MD**. Site Sub-Investigator: Irene Sarosiek, MD
- **A 12-week, Randomized, Double-blind, Placebo-controlled, Phase 3 Study to Evaluate the Safety and Efficacy of Relamorelin in Patients with Diabetic Gastroparesis.** Pharmaceutical Sponsor: Allergan Sales, LLC. Site Investigator: **Richard McCallum, MD**. Site Sub-Investigator: Irene Sarosiek, MD.
- **A 46-week, Double-blind, Placebo-controlled, Phase 3 Study with a 6-week Randomized-withdrawal Period to Evaluate the Safety and Efficacy of Relamorelin in Patients with Diabetic Gastroparesis.** Pharmaceutical Sponsor: Allergan Sales, LLC. Site Investigator: **Richard McCallum, MD**. Site Sub-Investigator: Irene Sarosiek, MD.
- **A Randomized, Double-Blind Placebo-Controlled Scintigraphy Study to Investigate the Effect of CIN-102 on Gastric Emptying and Antral Contractility in Adults with Diabetic Gastroparesis.** Pharmaceutical Sponsor: CinDome Pharma, Inc. Site Investigator: **Richard McCallum, MD**. Site Sub-Investigator: Irene Sarosiek, MD.
- **MoPill Gastrointestinal Pill Study (MoPill-GPS).** Pharmaceutical Sponsor: Rock West Medical Devices, LLC. Site Investigator: **Richard McCallum, MD**. Site Sub-Investigator: Irene Sarosiek, MD.

- **A 52-week, Randomized, Double-blind, Placebo-controlled, Phase 3 Study to Evaluate the Safety and Efficacy of Relamorelin in Patients with Diabetic Gastroparesis.** Pharmaceutical Sponsor: Allergan Sales, LLC. Site Investigator: **Richard McCallum, MD**. Site Sub-Investigator: Irene Sarosiek, MD.

- **A Randomized, Controlled, Double-blind, Continuation Study Comparing the Long-term Safety and Efficacy of Orelvo (voclosporin) (23.7 mg Twice Daily) with Placebo in Subjects with Lupus Nephritis (AURORA 02 Study).** Pharmaceutical Sponsor: Aurinia Pharmaceuticals Inc. Site Investigator: **Fernanda Payan-Schober, MD**. Site Sub-Investigator: Adeel Ahmad, MD.