



Research Report

LECOM

2020

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ASSISTANT DEAN OF RESEARCH AND SCHOLARSHIP

L E C O M

2020 PUBLICATIONS

Published articles/Book Chapters

1. Quinn E, Capanegro J, Hartigan J (2020). A case report: Delayed gallstone abscess formation 10 years post-cholecystectomy. *Int J Surg Case Rep* 77: 903-905.
2. Dewar ZE, Wu J, Hughes H, Adnani A, Christiansen G, Ovedovitz L, Rittenberger JC (2020). A comparison of handheld ultrasound versus traditional ultrasound for acquisition of RUSH views in healthy volunteers. *J Am Coll Emerg Physicians Open* 1: 1320-1325.
3. Daniels P, Jalil M, Michaud C, Hostoffer R (2020). Negative Penicillin Skin Testing Induced Anaphylaxis with Concurrent Beta Blocker and Angiotensin-converting Enzyme Inhibitor Use. *Ann Allergy Asthma Immunol*.
4. Chung TR, Mishler M, Aukerman W, Nannapaneni S, Urias D, Shayesteh K (2020). A Multidisciplinary Approach to Penetrating Neck Trauma in a Patient with Self-Inflicted Gunshot Injuries to Zones 1-3 of the Neck. *Am Surg* 3134820973357.
5. Maxfield L, Shah M, Schwartz C, Tanner LS, Appel J (2020). Intralesional 5-fluorouracil for the treatment of squamous cell carcinomas. *J Am Acad Dermatol*.
6. Jafri ZA, Walia S, Ivanic MG, Wu JJ (2020). Estimating the susceptibility to SARS-CoV-2 infection with rituximab use for pemphigus vulgaris. *J Dermatolog Treat* 1-6.
7. Tran T, Dawrs SN, Norton GJ, Viridi R, Honda JR (2020). Brought to you courtesy of the red, white, and blue-pigments of nontuberculous mycobacteria. *AIMS Microbiol* 6: 434-450.
8. Schend J, Daniels P, Sanan N, Tcheurekdjian H, Hostoffer R (2020). Clinical Observation of COVID-19 in a Patient With an Acquired Humoral Deficiency Secondary to Chemotherapeutic Agents. *Allergy Rhinol (Providence)* 11: 2152656720978764.
9. Khalid N, Can AS (2020). Plummer Disease.
10. Kollins SH, DeLoss DJ, Canadas E, Lutz J, Findling RL, Keefe RSE, Epstein JN, Cutler AJ, Faraone SV (2020). A novel digital intervention for actively reducing severity of paediatric ADHD (STARS-ADHD): a randomised controlled trial. *Lancet Digit Health* 2: e168-e178.
11. Borker PV, Valesky M, Phalunas C, Wyland C, Nourai SM, Patel SR (2020). Patient Preferences on Initiating Treatment with Positive Airway Pressure. *Ann Am Thorac Soc*.

12. Naito T, Chin J, Kim TU, Veera S, Jeannette M, Lomiguen CM (2020). Further Reduction in Help-Seeking Behaviors Amidst Additional Barriers to Mental Health Treatment in Asian Populations: A Contemporary Review. *Cureus* 12: e11455.
13. Razzaque MS (2020). Exacerbation of antimicrobial resistance: another casualty of the COVID-19 pandemic? *Expert Rev Anti Infect Ther* 1-5.
<https://doi.org/10.1080/14787210.2021.1865802>
14. De GD, Barton EM, Sandberg EN, Croley CR, Pumarol J, Wong TL, Das N, Bishayee A (2020). Anticancer potential of garlic and its bioactive constituents: A systematic and comprehensive review. *Semin Cancer Biol*.
15. O'Donnell KT, Dunbar M, Speelman DL (2020). Effectiveness of using a meditation app in reducing anxiety and improving well-being during the COVID-19 pandemic: A structured summary of a study protocol for a randomized controlled trial. *Trials* 21: 1006.
16. Dunn A, Long T, Kleinfelder RE, Zarraga MB (2020). The Adjunct Use of Platelet-Rich Plasma in Split-Thickness Skin Grafts: A Systematic Review. *Adv Skin Wound Care*.
17. Joud H, Mohamed E, Mirza S, Tabbaa H, Tabbaa M, Khan F, Ayoubi N, MacDonald M, Woodard L, Oxner A, Guerra L, Bakour C, Mirza AS (2020). Prevalence and management of diabetes among the uninsured: A multicenter study in Tampa Bay, FL. *Diabetes Res Clin Pract* 171: 108560.
18. Ashfaq S, Can AS (2020). Danazol.
19. Nahian A, UNAL M, Mathew JJ (2020). Osteopathic Manipulative Treatment: Facial Muscle Energy, Direct MFR, and BLT Procedure - for TMJ Dysfunction.
20. Smith T, Kahre J, Sargsyan Z (2020). Phlegmasia Cerulea Dolens Related to Urinary Retention. *Am J Med*.
21. Yocum AD, Bacharach D, Simon EL (2020). An unusual presentation and treatment of a hemorrhaging plexiform neurofibroma. *Am J Emerg Med*.
22. Cohen AD, Jagra AS, Yang B, Fernandez B, Banerjee S, Wang Y (2020). Detecting Task Functional MRI Activation Using the Multiband Multiecho (MBME) Echo-Planar Imaging (EPI) Sequence. *J Magn Reson Imaging*.
23. Berry JA, Cortez V, Toor H, Saini H, Siddiqi J (2020). Moyamoya: An Update and Review. *Cureus* 12: e10994.
24. Close DA, Kirkwood JM, Fecek RJ, Storkus WJ, Johnston PA (2020). Unbiased High-Throughput Drug Combination Pilot Screening Identifies Synergistic Drug Combinations Effective against Patient-Derived and Drug-Resistant Melanoma Cell Lines. *SLAS Discov* 2472555220970917.

25. Sinha D, Saha P, Samanta A, Bishayee A (2020). Emerging Concepts of Hybrid Epithelial-to-Mesenchymal Transition in Cancer Progression. *Biomolecules* 10.
26. Mansour Y, Ahmed SN, Kulesza R (2020). Abnormal morphology and subcortical projections to the medial geniculate in an animal model of autism. *Exp Brain Res.*
27. Asgary S, Karimi R, Joshi T, Kilpatrick KL, Moradi S, Samimi Z, Mohammadi E, Farzaei MH, Bishayee A (2021). Effect of pomegranate juice on vascular adhesion factors: A systematic review and meta-analysis. *Phytomedicine* 80: 153359.
28. Moumneh K, Centeno GJ, Centeno Gavica MS, Terrell M, Lomiguen CM (2020). The Role of Barriers and Community-Based Education in Compliance to Regular Eye Exams in New York City's Harlem Community. *Cureus* 12: e10875.
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31. Le TK, Brown BK, Namtu KC, Berman DM, Kiskaddon AL (2020). Use of cidofovir with extracorporeal membrane oxygenation to treat adenovirus-associated acute respiratory distress syndrome in paediatric patients- a case series. *J Clin Pharm Ther* 45: 1505-1510.
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33. Catanzaro E, Bishayee A, Fimognari C (2020). On a Beam of Light: Photoprotective Activities of the Marine Carotenoids Astaxanthin and Fucoxanthin in Suppression of Inflammation and Cancer. *Mar Drugs* 18.
34. Long T, Bindernagel R, Austin B, Tarbox M (2020). Severe scalp sarcoidosis in an unlikely patient. *JAAD Case Rep* 6: 1165-1166.
35. Haque M, Islam S, Sheikh MA, Dhingra S, Uwambaye P, Labricciosa FM, Iskandar K, Charan J, Abukabda AB, Jahan D (2020). Quorum sensing: a new prospect for the management of antimicrobial-resistant infectious diseases. *Expert Rev Anti Infect Ther* 1-16.
36. Lonsdale H, Kimsey KM, Brown JM, Dey A, Peck J, Son S, Wilsey M (2020). Pediatric Cannabinoid Hyperemesis: A Single Institution 10-Year Case Series. *J Adolesc Health.*
37. Garg N, McClafferty B, Ramgobin D, Golamari R, Jain R, Jain R (2020). Cardiology and COVID-19: do we have sufficient information? *Future Cardiol.*

38. Huq M, Sanan N, Daniels P, Hostoffer R (2020). Posner-Schlossman Syndrome in Common Variable Immunodeficiency. *Case Rep Ophthalmol Med* 2020: 8843586.
39. DeChick A, Hetz R, Lee J, Speelman DL (2020). Increased Skeletal Muscle Fiber Cross-Sectional Area, Muscle Phenotype Shift, and Altered Insulin Signaling in Rat Hindlimb Muscles in a Prenatally Androgenized Rat Model for Polycystic Ovary Syndrome. *Int J Mol Sci* 21.
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41. Tran TB, Estrin NE, Saleh MHA, Yoon TYH, Tattan M, Wang HL (2020). Evaluation of length and location of the maxillary sinus intraosseous artery using computerized tomography. *J Periodontol*.
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49. Razzaque MS (2020). Implementation of antimicrobial stewardship to reduce antimicrobial drug resistance. *Expert Rev Anti Infect Ther* 1-4.
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56. Sewell C, Daniels P, Cottrell J, Hostoffer R (2020). Common Variable Immunodeficiency with the Concomitant Diagnosis of an Inflammatory Myofibroblastic Tumor. *J Clin Immunol.*
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66. Calderon-Garciduenas L, Torres-Jardon R, Franco-Lira M, Kulesza R, Gonzalez-Maciel A, Reynoso-Robles R, Brito-Aguilar R, Garcia-Arreola B, Revueltas-Ficachi P, Barrera-Velazquez JA, Garcia-Alonso G, Garcia-Rojas E, Mukherjee PS, gado-Chavez R (2020). Environmental Nanoparticles, SARS-CoV-2 Brain Involvement, and Potential Acceleration of Alzheimer's and Parkinson's Diseases in Young Urbanites Exposed to Air Pollution. *J Alzheimers Dis* 78: 479-503.
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73. Daniels P, Shilian R, Huq M, Hostoffer R (2021). Eosinophilic fasciitis in common variable immunodeficiency with hypereosinophilia. *Ann Allergy Asthma Immunol* 126: 99-100.
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90. Goodrich E, Goodrich RP (2020). Orthopedic Surgery and Flight Surgery: Income Differences Between the Navy Health Professions Scholarship Program and Civilian Orthopedic Surgery. *Mil Med* 185: e1913-e1918.
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100. Okten IN, Ismail S, Withycombe BM, Eroglu Z (2020). Preclinical discovery and clinical development of encorafenib for the treatment of melanoma. *Expert Opin Drug Discov* 15: 1373-1380.
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Manuscripts submitted (Faculty bold, students underlined)

1. Rezac, K, Bao, NN, Hubert, J, Zeher, B, Aygeropoulos, G, Shenkman, D, **Quinn, TA, Lorenzo, S.** Pulmonary Function After Rib Raising Versus Standard Respiratory Therapy. Submitted, J Am Osteopath Assoc
2. Curran R, **Kauffman M,** Ortoski R. Addressing the Impending Primary Care Shortage: How to Increase Interest and Participation in the Three-Year Accelerated Primary Care Scholars Pathway. Academic Medicine.
3. Patton, J, Michael, M, **Kauffman M,** Roth-Kauffman M. Verruca plantaris prophylaxis at nine-months: a randomized trial. Br J of Dermatol.
4. Dutmers, J. OMS4, Soule, E., Agrait Bertran, M., Andreou, S., Matteo, J. 10 + 10 = 12? Yes, 10 + 10 = 12! Side-by-Side Stenting Method for Endovascular Repair of a Traumatic Pseudoaneurysm at a Venous Confluence. Vascular. 2020, submitted.
5. **Quinn, TA, Myers, N,** Lang, D OMS4, Ramchander, N OMS4, and Cocozza, V. OMS4. Osteopathic Manipulative Techniques, taught by A. T. Still, at the American School of Osteopathy. 2019, submitted
6. Alice Hudder, Kim Moscatello, Sean Tackett Predictors of Performance for First-Level National Licensing Exams at One Osteopathic Medical School JAOA 5/7/2020

Abstract Presentations (Faculty bold, students underlined)

1. Ahmadian K, Safarzadeh E, Youngblood D, Yoon T, Brown JA. Periodontitis and Inflammation: Analysis of Cytokines. Hinman Annual Research Symposium. Nashville, TN. November 2019.
2. Cuculino L, Gutmann J, Pham T, Dinh, T, Yoon TY. Relevance of Pre-doctoral CBCT Education to Postgraduate Endodontic Preparedness: A Survey Approach. 2020 American Academy of Endodontics Annual Meeting – Nashville, TN. April 2020
3. Anderson S, Slipak I. Caries Diagnostic Assessment of Dental Student versus General Dentists: A Pilot Survey-based Study. Online Student Competition for Advancing Dental Research and Its Application (SCADA). April 2020.
4. Dutmers, J. OMS4, Soule, E., Agrait Bertran, M., Andreou S., Matteo, J. 10 + 10 = 12? Dual Stenting for Trauma at Vascular Confluence. International Symposium on Endovascular Therapy 2020. Hollywood, FL. January 22-25. (Poster Presentation)
5. Burstiner LJ OMS4, White BM, DeAngelo O. Port Placement Produced Sizable Subclavian Pseudoaneurysm: Case Report. 2020 International Symposium on Endovascular Therapy. Hollywood, FL. January 22-25, 2020. (Poster Presentation)
6. White B, Burstiner L OMS4, Anderson C. Fibromuscular Dysplasia Masquerading as Peripheral Arterial Disease: Case Report. 2020 International Symposium on Endovascular Therapy. Hollywood, FL. January 22-25, 2020 (Poster Presentation)
7. Rowland, R.J. OMS2, Daugherty, M. OMS2, French, M. OMS1, Sheng-Yi, D.L. OMS2, Miller, N.M. OMS2, Morrison, T. OMS1, **Gnarra, J. Ph.D.** Anti-bacterial effects of juglone, a natural product derived from walnut trees. Florida Osteopathic Medical Association 2020 Scientific Research Poster Competition. Weston, FL. February 7th-8th, 2020.
8. Rowland, R.J. OMS2, Daugherty, M. OMS2, French, M. OMS1, Sheng-Yi, D.L. OMS2, Miller, N.M. OMS2, Morrison, T. OMS1, Schuttenberg, N. OMS1, **Gnarra, J. Ph.D.** Anti-bacterial effects of juglone, a natural product derived from walnut trees. Florida Academy of Sciences. Daytona, FL. March 20, 2020
9. Piepenbrink, Blake OMS2 and Blount, Stephanie OMS2. The Extraction of Proteins and Lipids from Honey to analyze their Antimicrobial Properties. 2020 Annual FOMA Poster Presentation. Bonaventure Resort and Spa, Weston, FL 33326. February 7th, 2020.
10. Damaske, M. OMS2; Bawek, S. OMS2; Tucker, S OMS2; Burch, B OMS2; **Myers, N. DO**; **Lorenzo, S. Ph.D.** Establishing a Comprehensive Osteopathic Manipulative Treatment Protocol for Evaluation and Treatment of Neck Pain in Adults. 2020 American Academy of Osteopathy Convocation LBORC-NUFA research poster presentation. Colorado Springs, CO. March 11-15, 2020.
11. Alla, Z. PS3 and Shoukry, M.S. PS2, and **Arnold, T.** The Extraction of Proteins and Lipids from Honey to analyze their Antimicrobial Properties. Florida Academy of Sciences 2020 Annual Conference. Bethune-Cookman University, Daytona Beach, FL 32114. March 20th, 2020.

12. Dominick, N. OMS2, McFarland, L. OMS2, Barnebee, D. OMS2, Wright, C. OMS2, and Lorenzo, S. Effects of Osteopathic Manipulative Treatment (OMT) and Bio Electro-Magnetic Energy Regulation (BEMER) Therapy on neck pain in adults. Abstract for poster presentation. American College of Osteopathic Family Physicians (ACOFP) Annual Convention. March 2020. New Orleans, LA.
13. Arndt, Mary, OMS2. Unproductive T cell receptor- β and T cell receptor- δ recombination recoveries in tissue and blood samples are associated with improved survival outcomes for uterine and ovarian cancers. SGO (Society of Gynecologic Oncology) 2020 Annual Meeting on Women's Cancer. Toronto, Canada. March 28-31, 2020.
14. Bono, C OMS4. Psychocutaneous Disease: Differential Diagnoses and Treatment Options. American Psychiatric Association, 2020 Annual Meeting, Philadelphia, PA. April 26, 2020
15. Christine Lomiguen Gao, M., Tsai, C., Chen, D., Sala, N.A., Sala, N, Lomiguen, C. An assessment of medical student knowledge of strabismus and amblyopia 2020 American Academy of Ophthalmology Annual Meeting Las Vegas, NV 11/14/2020 N 5/6/2020

Research Information on the Portal

- **Maintained** by Dr. Bertalan Dudas and Dr. Diana Speelman
- **Research/Scholarship tab has been updated** so faculty can find info on:
 - Policies and procedures (grant application, student research, registering projects, publication fees, posters)
 - IRB and IACUC forms & links
 - Reports on Scholarly Activity Outcomes, Faculty Expertise & Interests, Annual Reports
 - Funding Opportunities & Information
 - New IPAAR page for newsletters, contacts, project assistance request
- **Faculty research activity information** available for students on the portal
 - Information of faculty research activity is available as an Excel document on the portal. Any updates should be Emailed to Dr. Speelman (dspeelman@lecom.edu). This document is available for the students who want to participate in research activity. (Students Tab > Forms and Documents > Faculty Expertise and Research Projects and >MCH Research Projects)
 - Guidelines for student research can also be found here.

GRANTS

LECOM Intramural Seed grants 2019-20

NAME	SCHOOL/ CAMPUS	PROJECT TYPE	PROJECT NAME	AMOUNT REQUEST ED	AWARD AMOUNT
Abukabda, Alaeddin	COM/Erie	General Basic Science	Complement system mediated endothelial dysfunction in pulmonary hypertension	\$19,995.00	\$19,995.00
Biringer, Roger	COM/Brade nton	General Basic Science	Fractionation of Samples Containing Potential Cancer Biomarkers and Biomarker Identification	\$19,988.76	\$19,989.00
Myers, Nicole	COM/Brade nton	Osteopathic Manipulative Medicine	Effects of Osteopathic Manipulative Treatment (OMT) and Bio Electro-Magnetic Regulation (BEMER) Therapy on neck pain in adults	\$8,410.00	\$8,410.00
Raisch, Kevin	COM/Brade nton	General Basic Science	Analysis of saliva samples for oral microbiome and human papillomavirus	\$20,000.00	\$20,000.00
Freeman, Irv	COM/Seton Hill	Health Professions Education	Survey of Hospitals' Policies on the Use of Medical Cannabis by Inpatients	\$5,000.00	\$5,000.00
Gnarra, James	COM/Brade nton	General Basic Science	Prolyl isomerase activity in renal cancer cells	\$19,512.94	\$0.00
McBride, Jennifer	COM/Erie	General Basic Science	Determining Carcinogenic Potential of In Vitro Acrolein Exposure	\$19,691.51	\$19,692.00
Slipak, Inessa	SDM	Health Professions Education	Faculty or Technology: Traditional assessment model of preparations versus computer assisted assessment model	\$20,000.00	\$20,000.00
Manibo, Alexandra	SDM	Health Professions Education	Clinical Wear of Two Types of Denture Teeth Materials After Six and Twelve Months	\$6,770.00	\$6,770.00
Hussein, Hind	SDM	General Basic Science	Effect of Fluoride application on bonding of orthodontic resin cement and hardness of enamel surface	\$14,870.00	\$14,870.00
Abdulhameed Nader	SDM	Health Professions Education	Influence of etching and CHX application on bond strength to the tooth structure using 7th generation bonding system	\$17,137.00	\$17,137.00

LECOM Intramural Seed grants 2020-21

NAME	SCHOOL/ CAMPUS	PROJECT TYPE	PROJECT NAME	AMOUNT REQUEST ED	AWARD AMOUNT
Abi Abdallah, Delbert	COM/Erie	General Basic Science	Investigating the immune response to Listeria monocytogenes	\$14,989.00	\$14,989.00
Bhattacharya, Dwipayan	COM/Erie	General Basic Science	Elucidating the neuroprotective mechanisms of ILK alcohol exposed brain damage in FASD rat model	\$14,887.00	\$14,887.00
Durancik, David	COM/Erie	General Basic Science	Human monocyte cell line expression of the receptor known as Stimulated by Retinoic Acid 6	\$18,800.00	\$19,800.00
He, Ping	COM/Erie	General Basic Science	An investigation of extracellular phosphate perturbed cell signaling networks	\$19,884.61	\$19,884.61

LECOMT Seed grants 2020-21 Phase 2 Pending

NAME	SCHOOL/ CAMPUS	PROJECT TYPE	PROJECT NAME	AMOUNT REQUEST ED	AWARD AMOUNT (Oct.15.)
Bhattacharya, Dwipayan	COM/Erie	General Basic Science	"In vitro Stimulation of Dopamine D4 Receptors Protects PGC-1a Dependent Dopaminergic Neurons"	4,894.00	
Sarsam, Luay	Arnot Ogden Medical Center	Cardiovascular Disease Fellow	"Comparing Apple wearable devices in detecting Cardiac Arrhythmias head-to-head with cardiac monitoring device commonly used in the outpatient clinical practice."	5,000.00	
Herrick, Richard Li, Yueling	LECOM Health - Millcreek Community Hospital	Psychiatry	"Predictors or factors affecting readmissions or revisiting ER within 30 Days of discharge in psychiatric patients"	5,000.00	
White, Bradley Deangleo, Osmany	Larkin Community Hospital	Diagnostic Radiology	"Point-of-Care Transthoracic Sonographic Evaluation for Early Detection of Post-Procedure Pneumothorax	4,944.00	

LECOMT Seed grants 2020-21 Phase 1

NAME	ADDITIONAL INVESTIGATORS	INSTITUTION	PROGRAM	TITLE	REQUESTED AMOUNT	AWARDED AMOUNT
Ines Kanada, DO		LECOM Health - Millcreek Community Hospital	Internal Medicine	"The benefit of using probiotic in patient with chronic constipation"	3,500.00	3,500.00
Asad Nasir, MD	Laura Bradel, DO; David Irwin, DO	Arnot Ogden Medical Center	Internal Medicine	"Feasibility Study to Evaluate Fractional Expired Nitric Oxide (FENO) during Hospitalization for Acute Exacerbation and two weeks post discharge for patients with COPD"	2,148.50	2,148.50
Ping He, MD, PhD		LECOM		"Comparative proteomic analysis of abnormal accumulated proteins in N-glycanase 1 deficient cells"	5,000.00	5,000.00
Jared Bunevich, DO	Kilee Bayne, DO	St. Elizabeth Boardman Hospital		"Construction of Human Sinus Models using 3-D printing for Surgery Simulation"	4,999.00	3,000.00
Lindsey Smith, DO		St. Elizabeth Boardman Hospital	Emergency Medicine	"Development of Novel Antiviral Respirators to Address Emergency Department and Hospital shortages amidst the Covid-19 pandemic"	5,000.00	
Anthony Brine, PsyD		St. Elizabeth Boardman Hospital	Family Medicine	"Resident Wellness and the Importance of Exercise"	5,000.00	
James Latronica, DO	Steve Martin, DO	Clarion Hospital		"Proof of concept and Field Testing of Emergency Personal Protective Equipment (PPE) produced by 3D printer"	5,000.00	
Zhu Wang, MD		Clarion Hospital		"Proof of concept and Field Testing of Emergency Personal Protective Equipment (PPE) produced by 3D printer"	4,756.50	
Daniel Hinds, DO		St. Elizabeth Boardman Hospital	Emergency Medicine	"Production of Protective Face Shields for Emergency Department Use during a Time of Critical Supply Shortage"	5,000.00	
Roger Biringer, PhD		LECOM - Bradenton		"Continued Characterization of Na, K-ATPase activity and endogenous ligands in migraine"	5,000.00	5,000.00
Chad Donley, MD	Kevin Sorensen, DO Zia Rehman, DO	St. Elizabeth Boardman Hospital	Emergency Medicine	"Age adjusted D-dimer rule out for Pulmonary Embolism"	5,000.00	
Don McLean, MS, MA		Niagara Falls Memorial Medical Center	Family Medicine	"Up to Date Strategies"	4,460.00	
Diana Speelman, PhD	Caitlin Reilly, OMS3	LECOM		"Effect of High-Sugar Diet on Insulin Resistance and Metabolic Dysfunction in a Prenatally Androgenized Rat Model"	5,000.00	5,000.00

santiago Lorenzo, PhD, M.S., M.S.(MedEd)		LECOM - Bradenton		"Influence of stress on the physiological and psychological wellbeing of first year medical students, as measured by Heart Rate Variability and the Perceived Stress Scale"	4,939.46	4,939.46
Randy Kulesza, PhD	Stephanie Klinessmith, student Researcher	LECOM		"Improving Medical Student Well-Being during First-Year Anatomy Education"	3,913.00	3,913.00
Comfort Mfobefu Takang, MD, MPH	Larry Wickless, DO	Manatee Memorial Hospital	Internal Medicine	"Clinical Characteristics, Management, Evolution and Outcome of Hospitalized Patients with COVID-19 Compared to Seasonal Influenza in two Community Hospitals (COV-FLU)	5,000.00	
Werther Marciales, MD	Joshua Batzata, DO	Manatee Memorial Hospital	Internal Medicine	"A Randomized, Open Label, Controlled Clinical trial of Hydroxychloroquine and Doxycycline for the management of hospitalized non-vented COVID-19 patients (CORONA-IN PLUS)	5,000.00	
Werther Marciales, MD	Nicholas Ross, DO	Manatee Memorial Hospital	Internal Medicine	"A Randomized, open label, outpatient Clinical trial in high risk population confirmed COVID-19 patients using Hydroxychloroquine, Doxycycline to prevent COVID-19 illness related hospitalization. (CORONA-OUTPLUS)	5,000.00	
Werther Marciales, MD	Vivian O. Chukwurah, MD Ichi Liang, DO	Manatee Memorial Hospital	Internal Medicine	"A Randomized Open Label Clinical Trial Reviewing Prophylactic Treatment to Decrease the Incidence of Symptomatic COVID-19 in Healthcare Providers on the Frontlines (CORNOA-PREV)	5,000.00	
Irtaza Asar, DO	Dhimitri Nikolla, DO Jestin Carlson, MD, MS	AHN - Saint Vincent Hospital	Emergency Medicine	"Impact of Bed Angle and Height on Laryngeal Views During Emergency Department Intubation in the Ramped Position"	4,920.00	\$4,920.00
Bryan Anderson, DO		LECOM Health - Millcreek Community Hospital	Orthopaedic Surgery	"Effect of simple cervical spine exercise regimen on neck pain, strength, range of motion and concussion incidence in collegiate athletes"	14,274.80	\$14,274.80
Diana Speelman, PhD		LECOM		"Placental and fetal metabolism in pregnant female rats exposed to testosterone during gestation"	5,000.00	\$5,000.00
Robert Hostoffer, Jr., D.O, LhD, Med, FAAP, FACOP	Ryan Shilian, DO	University Hospitals	Allergy Immunology	"Absolute lymphocyte counts determine severity score in Coronavirus Disease 2019"	4,939.99	\$4,000.00
Randy Kulesza, PhD		LECOM		"Comparison of modern and traditional resources and the effect of student learning style in anatomy education"	4,995.99	4,995.99
Randy Kulesza, PhD		LECOM		Characterization of long-range axonal projections within the auditory brainstem and forebrain of an animal model of autism spectrum disorder	4,870.21	4,870.21