



# Research Report

## LECOM

2019

PREPARED BY:

BERTALAN DUDAS M.D., PH.D., M.S. (MED. ED)  
ASSISTANT DEAN OF RESEARCH AND SCHOLARSHIP

L E C O M



## 2019 JOURNAL ARTICLES

Cumulative Impact Factor of the published/accepted articles: **361.699**

### Published articles

---

1. Abdelraouf K, Stainton SM, Nicolau DP (2019). In Vivo Pharmacodynamic Profile of Ceftibuten-Clavulanate Combination against Extended-Spectrum-beta-Lactamase-Producing Enterobacteriaceae in the Murine Thigh Infection Model. *Antimicrob Agents Chemother* 63.
2. Alaseem A, Alhazzani K, Dondapati P et al. (2019). Matrix Metalloproteinases: A challenging paradigm of cancer management. *Semin Cancer Biol* 56: 100-115.
3. Alookaran J, Tripp J (2019). Castor Oil.
4. Ammar A, Zafar Ahmed MH, Shahid Z et al. (2019). Etanercept-associated Nephropathy. *Cureus* 11: e5419.
5. Andrews MAW (2019). The stretch receptor and somatic dysfunction, a narrative review. *J Am Osteopath Assoc* 119: 511-519.
6. Arce DY, Bellavia A, Cantonwine DE et al. (2019). Average and time-specific maternal prenatal inflammatory biomarkers and the risk of labor epidural associated fever. *PLoS One* 14: e0222958.
7. Asis M, Hemmati N, Moradi S et al. (2019). Effects of resveratrol supplementation on bone biomarkers: a systematic review and meta-analysis. *Ann N Y Acad Sci*.
8. Awasthee N, Rai V, Chava S et al. (2019). Targeting IkappaappaB kinases for cancer therapy. *Semin Cancer Biol* 56: 12-24.
9. Bailey EC, Alrowaished SS, Kilroy EA et al. (2019). NAD<sup>+</sup> improves neuromuscular development in a zebrafish model of FKRP-associated dystroglycanopathy. *Skelet Muscle* 9: 21.
10. Ballard T, Chargui S (2019). Pamidronate.
11. Ballard T, Smith T (2019). Anatomy, Medial Antebrachial Cutaneous Nerve.
12. Baquiran M, Bordoni B (2019). Anatomy, Head and Neck, Anterior Vagus Nerve.
13. Berezovsky DR, Bordoni B (2019). Anatomy, Shoulder and Upper Limb, Forearm Arteries.

14. Bhattarai S, Pupillo S, Man Singh DG et al. (2019). Patiromer Acetate Induced Hypercalcemia: An Unreported Adverse Effect. *Case Rep Nephrol* 2019: 3507407.
15. Birchard Z, Tuck JA (2019). Discoid Meniscus.
16. Biringer RG (2019). The Role of Eicosanoids in Alzheimer's Disease. *Int J Environ Res Public Health* 16.
17. Bishayee A, Kamal MA (2019). Special issue: Current vision on target enzymes for cancer therapy. *Semin Cancer Biol* 56: iii-iv.
18. Biswas S, Peirish R (2019). Traumatic Bilateral Luxatio Erecta from a Sliding Injury Down a Ladder; A Rare Case Report and Literature Review. *Bull Emerg Trauma* 7: 187-191.
19. Broderick A, Lowe E, Xiao A et al. (2019). Leclercia adecarboxylata folliculitis in a healthy swimmer-An emerging aquatic pathogen? *JAAD Case Rep* 5: 706-708.
20. Brown TM, Krishnamurthy K (2019). Histology, Dermis.
21. Brown TM, Krishnamurthy K (2019). Anatomy, Head and Neck, Procerus Muscle.
22. Brown TM, Krishnamurthy K (2019). Histology, Hair and Follicle.
23. Burstiner L, Al KY (2019). Anatomy, Thorax, Pleurae.
24. Calderon-Garciduenas L, Kulesza RJ, Mansour Y et al. (2019). Increased Gain in the Auditory Pathway, Alzheimer's Disease Continuum, and Air Pollution: Peripheral and Central Auditory System Dysfunction Evolves Across Pediatric and Adult Urbanites. *J Alzheimers Dis* 70: 1275-1286.
25. Calderon-Garciduenas L, Gonzalez-Maciel A, Kulesza RJ et al. (2019). Air Pollution, Combustion and Friction Derived Nanoparticles, and Alzheimer's Disease in Urban Children and Young Adults. *J Alzheimers Dis* 70: 343-360.
26. Calderon-Garciduenas L, Mukherjee PS, Kulesza RJ et al. (2019). Mild Cognitive Impairment and Dementia Involving Multiple Cognitive Domains in Mexican Urbanites. *J Alzheimers Dis* 68: 1113-1123.
27. Carl DJ, Habusta SF (2019). Hand, Tendon Transfers.
28. Carmel B, Delost GR, Stern J et al. (2019). Cutaneous plasmacytoma: Metastasis of multiple myeloma and invasion of sternotomy scar. *JAAD Case Rep* 5: 94-97.
29. Catanzaro E, Calcabrini C, Bishayee A et al. (2019). Antitumor Potential of Marine and Freshwater Lectins. *Mar Drugs* 18.

30. Chen AW, Archbold CS, Hutchinson M et al. (2019). Sideline Management of Nonmusculoskeletal Injuries by the Orthopaedic Team Physician. *J Am Acad Orthop Surg* 27: e146-e155.
31. Cheng J, Eskenazi B, Widjaja F et al. (2019). Improving autism perinatal risk factors: A systematic review. *Med Hypotheses* 127: 26-33.
32. Chin J, Kviatkovsky B, Lomiguen C (2019). Osteopathic Considerations for Peripheral Neuropathy Due to Concomitant Diffuse Idiopathic Skeletal Hyperostosis Syndrome and Lumbar Epidural Lipomatosis: Case Report. *Interact J Med Res* 8: e14607.
33. Cibulas A, Leyva A, Cibulas G et al. (2019). Acute Shoulder Injury. *Radiol Clin North Am* 57: 883-896.
34. Cleveland NC, Nguyen DN, Tran CD et al. (2019). Traumatic Injury to the Portal Vein With Shock Bowel. *Curr Probl Diagn Radiol* 48: 97-99.
35. Cocozza LVR, Santamaria CJA, Giles CGB et al. (2019). Teleophthalmology Prevents Unnecessary Evacuation from Warzone. *Mil Med*.
36. Cofano S, Yellon R (2019). Hydrocodone.
37. Cornwell JN, Wilhelm DJ, Leary PF (2019). A Case of Traumatic Splenic Laceration in a Division II Football Player: Advisable versus Safe Return to Play Considerations. *Curr Sports Med Rep* 18: 72-75.
38. Corso T, Grignol G, Kulesza R et al. (2019). Accessory mammillary bodies formed by the enlarged lateral mammillary nuclei: cytoarchitecture. *Brain Struct Funct* 224: 1971-1974.
39. Crane MD (2019). Complex regional pain syndrome. *JAAPA* 32: 51-52.
40. Crane MD (2019). Foreign body aspiration. *JAAPA* 32: 48-49.
41. Danek DJ, Blessing NW, Tse DT (2019). Corneal perforation with uveal prolapse: An initial presentation of orbital metastatic breast cancer. *Am J Ophthalmol Case Rep* 16: 100551.
42. Daoud AA, Gianatasio C, Rudnick A et al. (2019). Efficacy of Combined Intense Pulsed Light (IPL) With Fractional CO<sub>2</sub>-Laser Ablation in the Treatment of Large Hypertrophic Scars: A Prospective, Randomized Control Trial. *Lasers Surg Med* 51: 678-685.
43. Das B, Sarkar N, Bishayee A et al. (2019). Dietary phytochemicals in the regulation of epithelial to mesenchymal transition and associated enzymes: A promising anticancer therapeutic approach. *Semin Cancer Biol* 56: 196-218.

44. Davis S, Hendryx J, Bouwer S et al. (2019). Correlation between physiologic and osteopathic measures of sympathetic activity in women with PCOS. *J Am Osteopath Assoc* 119: 7-17.
45. Deng S, Shanmugam MK, Kumar AP et al. (2019). Targeting autophagy using natural compounds for cancer prevention and therapy. *Cancer* 125: 1228-1246.
46. Dober GJ (2019). The United States as an Isolationist in Global Biomedical Ethics and Human Rights. *Am J Bioeth* 19: 62-64.
47. Duncanson A, Kopstein M, Skopit S (2019). Advanced Presentation of Homeopathically treated Giant Melanoma: A Case Report. *J Clin Aesthet Dermatol* 12: 28-31.
48. Erem S, Atfi A, Razzaque MS (2019). Anabolic effects of vitamin D and magnesium in aging bone. *J Steroid Biochem Mol Biol* 193: 105400.
49. Farzaei MH, Singh AK, Kumar R et al. (2019). Targeting Inflammation by Flavonoids: Novel Therapeutic Strategy for Metabolic Disorders. *Int J Mol Sci* 20.
50. Gelbart D, Donoughe JS (2019). Spider bites. *JAAPA* 32: 49-50.
51. Gelbart D (2019). Rabies. *JAAPA* 32: 46-47.
52. Gill M, Vilella RC (2019). Anatomy, Bony Pelvis and Lower Limb, Foot Cuboid Bone.
53. Goodson JM, Shi P, Razzaque MS (2019). Dietary phosphorus enhances inflammatory response: A study of human gingivitis. *J Steroid Biochem Mol Biol* 188: 166-171.
54. Gordon A, Alsayouri K (2019). Anatomy, Shoulder and Upper Limb, Axilla.
55. Gortney J, Rudolph MJ, Augustine JM et al. (2019). National Trends in the Adoption of Pharmacy Curriculum Outcomes Assessment for Student Assessment and Remediation. *Am J Pharm Educ* 83: 6796.
56. Greco NJ, Cook GJE, Lombardi AV, Jr. et al. (2019). Lateral Unicompartmental Knee Arthroplasty Utilizing a Modified Surgical Technique and Specifically Adapted Fixed-Bearing Implant. *Surg Technol Int* 34: 371-378.
57. Gregush RE, Habusta SF (2019). Ganglion Cyst.
58. Gregush RE (2019). A patient survey of their perception of the care they received from osteopathic residents as compared to their attending physicians. *Journal of POMA* June 2019.
59. Guidi JCA, Sapra A (2019). Physiology, Sexual Maturity Rating.
60. Gupta A, Singh AK, Kumar R et al. (2019). Corilagin in Cancer: A Critical Evaluation of Anticancer Activities and Molecular Mechanisms. *Molecules* 24.

61. Habusta SF, Griffin EE (2019). Tillaux Fracture.
62. Habusta SF, Tuck JA (2019). Synovial Chondromatosis.
63. Habusta SF, Gregush RE (2019). Septic Hip Joint.
64. Habusta SF, Griffin EE (2019). Chondromalacia Patella.
65. Hainsworth N, Sabirov A, Griffith S et al. (2019). Gabapentin for the treatment of persistent nasal pruritus refractory to other treatments. *Otolaryngology Case Reports*.
66. Harkins JM, Sajjad H (2019). Anatomy, Abdomen and Pelvis, Sigmoid Colon.
67. Hasan S, Gresswell S, Colosimo B et al. (2019). Surveillance Mammography After Breast Conservation Therapy: Is Tomosynthesis Worth It? *Am J Clin Oncol* 42: 682-686.
68. Haware RV, Vinjamuri BP, Gavireddi M et al. (2019). Physical properties and solubility studies of Nifedipine-PEG 1450/HPMCAS-HF solid dispersions. *Pharm Dev Technol* 24: 550-559.
69. Herrick EJ, Hashmi MF (2019). Antifungal, Ergosterol Synthesis Inhibitors (Conazoles).
70. Herrick EJ, Bordoni B (2019). Embryology, Placenta.
71. Heyd C, Yellon R (2019). Anatomy, Head and Neck, Pharynx Muscles.
72. Hitchcock K, Scolaro KL, Potts-Williams M et al. (2019). Pharmacy and Dental Students Interprofessional Collaboration: The Impact on Patients. ABSTRACTS of 119th Annual Meeting of the American Association of Colleges of Pharmacy.
73. Horowitz AJ, Frey D (2019). Sympathomimetics.
74. Hudder A, Tackett S, Moscatello K (2019). First-Year Experience Implementing an Adaptive Learning Platform for First- and Second-Year Medical Students at the Lake Erie College of Osteopathic Medicine. *J Am Osteopath Assoc* 119: 51-58.
75. Hurley M, Tenny S (2019). Mean.
76. Hwang MP, Fecek RJ, Qin T et al. (2019). Single injection of IL-12 coacervate as an effective therapy against B16-F10 melanoma in mice. *J Control Release* 318: 270-278.
77. Iordanova R, Reddivari AKR (2019). Neuroanatomy, Medulla Oblongata.
78. Iqbal R, Bhandare D, St LM et al. (2019). Think before you leap: cutaneous hypersensitivity to polytetrafluoroethylene arteriovenous graft masquerading as infection. *BMJ Case Rep* 12.

79. Jenkins BA, Athilingam P, Jenkins RA (2019). Symptom clusters in chronic obstructive pulmonary disease: A systematic review. *Appl Nurs Res* 45: 23-29.
80. Johnson DB, Jr., Triplet JJ, Bernhardt L et al. (2019). Isolated Treatment of a Comminuted Capitate Fracture: A Case Report. *JBJS Case Connect* 9: e6.
81. Junqueira H, Quinn T, Biringer RG et al. (2019). Accuracy of canine scent detection of lung cancer in blood serum. *J Am Osteopath Assoc* 119: 413-418.
82. Kahkeshani N, Farzaei F, Fotouhi M et al. (2019). Pharmacological effects of gallic acid in health and diseases: A mechanistic review. *Iran J Basic Med Sci* 22: 225-237.
83. Kalayanamitra R, Shahid Z, Shah N et al. (2019). The Bleeding Bowel: A Rare Case of Neurofibromatosis Type 1-associated Gastrointestinal Stromal Tumor in a Young Male. *Cureus* 11: e4868.
84. Kashyap D, Tuli HS, Yerer MB et al. (2019). Natural product-based nanoformulations for cancer therapy: Opportunities and challenges. *Semin Cancer Biol.*
85. Khalaf AA, Hussein S, Tohamy AF et al. (2019). Protective effect of *Echinacea purpurea* (Immulant) against cisplatin-induced immunotoxicity in rats. *Daru* 27: 233-241.
86. Khan H, Zafar M, Patel S et al. (2019). Pharmacophore studies of 1, 3, 4-oxadiazole nucleus: Lead compounds as alpha-glucosidase inhibitors. *Food Chem Toxicol* 130: 207-218.
87. Kumar R, Singh AK, Gupta A et al. (2019). Therapeutic potential of Aloe vera-A miracle gift of nature. *Phytomedicine* 152996.
88. Lagoa R, Silva J, Rodrigues JR et al. (2019). Advances in phytochemical delivery systems for improved anticancer activity. *Biotechnol Adv.*
89. Lamichhane P, Deshmukh R, Brown JA et al. (2019). Novel Delivery Systems for Checkpoint Inhibitors. *Medicines (Basel)* 6.
90. Larson-Meyer DE, Douglas CS, Thomas JJ et al. (2019). Validation of a Vitamin D Specific Questionnaire to Determine Vitamin D Status in Athletes. *Nutrients* 11.
91. Lazzara DR, Zarkhin SG, Rubenstein SN et al. (2019). Melanoma and Thyroid Carcinoma: Our Current Understanding. *J Clin Aesthet Dermatol* 12: 39-41.
92. Lee KC, Rudolph MJ, Assemi M et al. (2019). Factors associated with cultures of assessment at US schools and colleges of pharmacy. *Curr Pharm Teach Learn* 11: 129-138.
93. Lenchner JR, Santos C (2019). *Biochemistry, 5 Hydroxyindoleacetic Acid.*
94. Lipsett BJ, Steanson K (2019). *Anatomy, Head and Neck, Fontanelles.*



95. Lipsett BJ, Alsayouri K (2019). Anatomy, Head and Neck, Skull Foramen.
96. Long T, Bonomo B, Shearer S et al. (2019). Is Syringocystadenoma Papilliferum Incidental in This Verrucous Carcinoma? Case Rep Pathol 2019: 1783758.
97. Lorenzo S, Nicotra CM, Mentreddy AR et al. (2019). Assessment of Pulmonary Function After Osteopathic Manipulative Treatment vs Standard Pulmonary Rehabilitation in a Healthy Population. J Am Osteopath Assoc.
98. Luu A, Oberdoerster Z, Grignol G et al. (2019). Presence of substance P positive terminals on hypothalamic somatostatinergic neurons in humans: the possible morphological substrate of the substance P-modulated growth hormone secretion. Brain Struct Funct.
99. Majidinia M, Bishayee A, Yousefi B (2019). Polyphenols: Major regulators of key components of DNA damage response in cancer. DNA Repair (Amst) 82: 102679.
100. Majnooni MB, Fakhri S, Smeriglio A et al. (2019). Antiangiogenic Effects of Coumarins against Cancer: From Chemistry to Medicine. Molecules 24.
101. Mansour Y, Altaher W, Kulesza RJ, Jr. (2019). Characterization of the human central nucleus of the inferior colliculus. Hear Res 377: 234-246.
102. Mansour Y, Blackburn K, Gonzalez-Gonzalez LO et al. (2019). Auditory Brainstem Dysfunction, Non-Invasive Biomarkers for Early Diagnosis and Monitoring of Alzheimer's Disease in Young Urban Residents Exposed to Air Pollution. J Alzheimers Dis 67: 1147-1155.
103. Mansour Y, Mangold S, Chosky D et al. (2019). Auditory Midbrain Hypoplasia and Dysmorphology after Prenatal Valproic Acid Exposure. Neuroscience 396: 79-93.
104. Martin SE, Begun EM, Samir E et al. (2019). Incidence and Morbidity of Radiation-Induced Hemorrhagic Cystitis in Prostate Cancer. Urology 131: 190-195.
105. Marzbany M, Bishayee A, Rasekhian M (2019). Increased expression of ZNF 703 in breast cancer tissue: An opportunity for RNAi-NSAID combinatorial therapy. Biotechnol Appl Biochem.
106. Meftah M, White PB, Siddiqi A et al. (2019). Tranexamic Acid Reduces Transfusion Rates in Obese Patients Undergoing Total Joint Arthroplasty. Surg Technol Int 34: 451-455.
107. Merritt B, Dion CF, Sprague R et al. (2019). Medical Degree Disparity Among Authors of Original Research in Pediatric Journals. Cureus 11: e5119.
108. Michael M, Gmitter T (2019). A Case of Disseminated Lyme Disease Presenting as Chronic Urticaria. Cureus 11: e5600.

109. Mondal A, Gandhi A, Fimognari C et al. (2019). Alkaloids for cancer prevention and therapy: Current progress and future perspectives. *Eur J Pharmacol* 858: 172472.
110. Mondal A, Maity TK, Bishayee A (2019). Analgesic and Anti-Inflammatory Activities of Quercetin-3-methoxy-4'-glucosyl-7-glucoside Isolated from Indian Medicinal Plant *Melothria heterophylla*. *Medicines (Basel)* 6.
111. Murray CH, Loweth JA, Milovanovic M et al. (2019). AMPA receptor and metabotropic glutamate receptor 1 adaptations in the nucleus accumbens core during incubation of methamphetamine craving. *Neuropsychopharmacology* 44: 1534-1541.
112. Naito T, Chin J, Lin J et al. (2019). Postpartum psychosis in a non-native language-speaking patient: A perspective on language barriers and cultural competency. *Gen Psychiatr* 32: e100077.
113. Neha S, Jenny L, Christina B et al. (2019). Delayed and Protracted Allergic Reaction to Oral Lidocaine. *Ann Allergy Asthma Immunol*.
114. Nguyen CT, Lofgren DH, Pascolini MR (2019). An Aggressive Diffuse Supraorbital Mass. *JAMA Otolaryngol Head Neck Surg* 145: 477-478.
115. Nzabonimana E, Isyagi MM, Njunwa KJ et al. (2019). Use of an online medical database for clinical decision-making processes: assessment of knowledge, attitude, and practice of oral health care providers. *Adv Med Educ Pract* 10: 461-467.
116. Ong SKL, Shanmugam MK, Fan L et al. (2019). Focus on Formononetin: Anticancer Potential and Molecular Targets. *Cancers (Basel)* 11.
117. Packard E, Shahid Z, Groff A et al. (2019). Multiple Myeloma in an Agricultural Worker Exposed to Pesticides. *Cureus* 11: e4762.
118. Packard E, Groff A, Shahid Z et al. (2019). A 'Bit' of Appendicitis: A Case of a Foreign Object in the Adult Appendix. *Cureus* 11: e4751.
119. Parajuli P, Singh P, Wang Z et al. (2019). TGIF1 functions as a tumor suppressor in pancreatic ductal adenocarcinoma. *EMBO J* 38: e101067.
120. Park SB, Ramage JL (2019). Winging of the Scapula.
121. Patel H, Bhandari P, Kumar K et al. (2019). Isolated Gastric Varices due to Essential Thrombocytosis Related to Splenic Vein Thrombosis: A Challenge to Uncover the Concealed Diagnosis. *Cureus* 11: e6068.
122. Patel PH, Hashmi MF (2019). Macrolides.
123. Patel PH, Zulfiqar H (2019). Reverse Transcriptase Inhibitors.

124. Pavuluri N, Aparasu RR, Boje KMK et al. (2019). Consideration of Aggressive and Strategic Approaches to Address Declining Enrollment in US Pharmacy Schools. *Am J Pharm Educ* 83: 6959.
125. Phan K, Goyal S, Murrell DF (2019). Association between bullous pemphigoid and psoriasis: Systematic review and meta-analysis of case-control studies. *Australas J Dermatol* 60: 23-28.
126. Philip S, Xu X, Laud KG et al. (2019). Choroidal neovascularization in an adolescent with RDH12-associated retinal degeneration. *Ophthalmic Genet* 1-3.
127. Powell GL, Leyrer-Jackson JM, Goenaga J et al. (2019). Chronic treatment with N-acetylcysteine decreases extinction responding and reduces cue-induced nicotine-seeking. *Physiol Rep* 7: e13958.
128. Prasad P, Vasas A, Hohmann J et al. (2019). Circiliol Suppressed Epithelial to Mesenchymal Transition in B16F10 Malignant Melanoma Cells through Alteration of the PI3K/Akt/NF-kappaB Signaling Pathway. *Int J Mol Sci* 20.
129. Prough H, Alsayouri K (2019). Anatomy, Bony Pelvis and Lower Limb, Lateral Circumflex Femoral Artery.
130. Quinn T (2019). "Jeanette "Nettie" Bolles, First Female DO". *J Am Osteopath Assoc* 119: 6.
131. Rabinovich D, Smadi Y (2019). Zinc.
132. Ramage JL, Varacallo M (2019). Anatomy, Shoulder and Upper Limb, Hand Guyon Canal.
133. Ramage JL, Varacallo M (2019). Anatomy, Shoulder and Upper Limb, Wrist Extensor Muscles.
134. Ramage JL, Varacallo M (2019). Anatomy, Bony Pelvis and Lower Limb, Medial Thigh Muscles.
135. Ramage JL, Varacallo M (2019). Anatomy, Shoulder and Upper Limb, Hand Guyon Canal.
136. Rebollar EA, Bridges T, Hughey MC et al. (2019). Integrating the role of antifungal bacteria into skin symbiotic communities of three Neotropical frog species. *ISME J* 13: 1763-1775.
137. Rentiya ZS, Wells M, Bae J et al. (2019). Interferon-alpha-induced retinopathy in chronic hepatitis C treatment: summary, considerations, and recommendations. *Graefes Arch Clin Exp Ophthalmol* 257: 447-452.
138. Reyhanoglu G, Rehman A (2019). Somogyi Phenomenon.

139. Reyhanoglu G, Reddivari AKR (2019). Tobramycin.
140. Rezatabar S, Karimian A, Rameshknia V et al. (2019). RAS/MAPK signaling functions in oxidative stress, DNA damage response and cancer progression. *J Cell Physiol*.
141. Rizvi SAA, Sanchez-Gonzalez MA, Mora JI et al. (2020). Asthma and allergy crisis in Puerto Rico: a must do proposal. *J Thorac Dis*.
142. Rudolph MJ, Lee KC, Assemi M et al. (2019). Surveying the current landscape of assessment structures and resources in US schools and colleges of pharmacy. *Curr Pharm Teach Learn* 11: 117-128.
143. Saini HS, Sayre M, Saini I et al. (2019). Neurosyphilis Presenting as Intermittent Explosive Disorder and Acute Psychosis. *Cureus* 11: e6337.
144. Sanan N, Lee J, Baxter C et al. (2019). Delayed and protracted allergic reaction to oral lidocaine. *Ann Allergy Asthma Immunol*.
145. Saran M, Malarkey S (2019). Edematous Bullae: An Atypical Presentation of Reperfusion Injury. A Discussion of Ischemic-reperfusion Injury and Presentation of an Atypical Case. *Cureus* 11: e5376.
146. Saran M, Biswas S (2019). A Rare Case of Jejunal Pseudoaneurysm Presenting as Acute Small Bowel Obstruction After Blunt Trauma: Discussion, Management Dilemmas, and a Review of Relevant Literature. *Cureus* 11: e5655.
147. Sarkar N, Das B, Bishayee A et al. (2019). Arsenal of Phytochemicals to Combat against Arsenic-Induced Mitochondrial Stress and Cancer. *Antioxid Redox Signal*.
148. Seidman A, Brossy K, Faulkner A et al. (2019). Traumatic Pelvic Ring Injury following Childbirth with Complete Pubic Symphysis Diastasis. *Case Rep Orthop* 2019: 1785167.
149. Shahid Z, Packard E, Groff A et al. (2019). Eluxadoline-induced pancreatitis occurring in an adult man without a prior cholecystectomy. *BMJ Case Rep* 12.
150. Shahid Z, Kalayanamitra R, Groff A et al. (2019). Renal Cell Carcinoma Metastasis to an Uncommon Site: The Orbital Bone. *Cureus* 11: e4606.
151. Shahid Z, Kalayanamitra R, Patel R et al. (2019). Refractory Sweet Syndrome Treated with Anakinra. *Cureus* 11: e4536.
152. Shahid Z, Kalayanamitra R, Hanafi M et al. (2019). Sugar, Spice, and Bleeding. *Cureus* 11: e4437.
153. Shahid Z, Singh G (2019). Physiology, Islets of Langerhans.
154. Shahid Z, Simpson B, Singh G (2019). Genetics, Histone Code.

155. Shahid Z, Singh G (2019). Physiology, Hypothalamus.
156. Shahid Z, Burns B (2019). Anatomy, Abdomen and Pelvis, Diaphragm.
157. Shahoud JS, Aeddula NR (2019). Physiology, Arterial Pressure Regulation.
158. Shahoud JS, Bolla SR (2019). Anatomy, Thorax, Heart Aorta.
159. Shahoud JS, Burns B (2019). Anatomy, Thorax, Internal Mammary (Internal Thoracic) Arteries.
160. Shahoud JS, Tivakaran VS (2019). Cardiac Dominance.
161. Shaw MT, Best P, Frontario A et al. (2019). Telerehabilitation benefits patients with multiple sclerosis in an urban setting. *J Telemed Telecare* 1357633X19861830.
162. Sheffler ZM, Pillarisetty LS (2019). Physiology, Neurotransmitters.
163. Sheffler ZM, Abdijadid S (2019). Antidepressants.
164. Singh O, Al KY (2019). Anatomy, Back, Lumbar Plexus.
165. Singh O, Bolla SR (2019). Anatomy, Abdomen and Pelvis, Prostate.
166. Singh O, Das M (2019). Anatomy, Head and Neck, Jugular Foramen.
167. Singh O, Varacallo M (2019). Anatomy, Head and Neck, Frontal Bone.
168. Smart VA, Roger EI, Ricca RL et al. (2019). Fibroepithelial Vaginal Polyps in a Newborn Female. *Urology*.
169. Smith A, Storti S, Lukose R et al. (2019). Structural and Functional Aberrations of the Auditory Brainstem in Autism Spectrum Disorder. *J Am Osteopath Assoc* 119: 41-50.
170. Smith T, Rider J, Borger J (2019). Vestibular Neuronitis (Labyrinthitis).
171. Speelman D (2019). Nonpharmacologic management of symptoms in women with polycystic ovary syndrome: a narrative review. *J Am Osteopath Assoc* 119: 25-39.
172. Speelman DL (2019). Driving Progress and Innovation Through Research. *J Am Osteopath Assoc* 119: 4-5.
173. Sprecher E, Chi G, Ozonoff A et al. (2019). Use of Social Psychology to Improve Adherence to National Bronchiolitis Guidelines. *Pediatrics* 143.
174. Stainton SM, Monogue ML, Tsuji M et al. (2019). Efficacy of Humanized Cefiderocol Exposures over 72 Hours against a Diverse Group of Gram-Negative Isolates in the Neutropenic Murine Thigh Infection Model. *Antimicrob Agents Chemother* 63.

175. Stevich-Heemer B (2019). Management of radiation-induced nausea and vomiting. *U S Pharmacist* 44: HS10-HS13.
176. Sukocheva O, Menschikowski M, Hagelgans A et al. (2019). Current insights into functions of phospholipase A2 receptor in normal and cancer cells: More questions than answers. *Semin Cancer Biol* 56: 116-127.
177. Sukocheva OA, Furuya H, Ng ML et al. (2019). Sphingosine kinase and sphingosine-1-phosphate receptor signaling pathway in inflammatory gastrointestinal disease and cancers: A novel therapeutic target. *Pharmacol Ther* 107464.
178. Swamynathan S, Tiwari A, Loughner CL et al. (2019). The secreted Ly6/uPAR-related protein-1 suppresses neutrophil binding, chemotaxis, and transmigration through human umbilical vein endothelial cells. *Sci Rep* 9: 5898.
179. Tavallali LM, Cox RW (2019). Addressing the crisis in campus counseling centers: an organization perspective. *Journal of quality in Health care and Economics* 2: 000136.
180. Tewari D, Patni P, Bishayee A et al. (2019). Natural products targeting the PI3K-Akt-mTOR signaling pathway in cancer: A novel therapeutic strategy. *Semin Cancer Biol*.
181. Totiger TM, Srinivasan S, Jala VR et al. (2019). Urolithin A, a Novel Natural Compound to Target PI3K/AKT/mTOR Pathway in Pancreatic Cancer. *Mol Cancer Ther* 18: 301-311.
182. Tuck JA, Meads SM, Ramage JL (2019). Femoral Nerve Palsy With Concomitant Patellar Dislocation in a Ballet Dancer. *Orthopedics* 42: e273-e275.
183. Tuli HS, Tuorkey MJ, Thakral F et al. (2019). Molecular Mechanisms of Action of Genistein in Cancer: Recent Advances. *Front Pharmacol* 10: 1336.
184. Uhlman D, Nguyen T, Grignol G et al. (2019). Substance P appears to affect growth via growth hormone-releasing hormone (GHRH) neurons in the human hypothalamus. *Brain Struct Funct* 224: 2079-2085.
185. Umbela S, Ghacha S, Matuknauth R et al. (2019). Brigatinib: New-generation ALK inhibitor for nonsmall cell lung cancer. *Curr Probl Cancer*.
186. Valera P, Mackey D, Cropsey K (2019). A Pilot Study of Cancer 101 for Incarcerated Male Smokers. *Behav Med* 1-8.
187. Valera P, Reid A, Acuna N et al. (2019). The smoking behaviors of incarcerated smokers. *Health Psychol Open* 6: 2055102918819930.
188. Walkowski AD, Munakomi S (2019). Monosynaptic Reflex.
189. Walkowski AD, Goldman EM (2019). Anatomy, Shoulder and Upper Limb, Forearm Extensor Carpi Radialis Brevis Muscle.

190. Wang A, Nguyen M, Diaz J et al. (2019). Loperamide toxicity mimicking peripartum cardiomyopathy. *Am J Emerg Med*.
191. Wazen JJ, Kellermeyer B, Lange L et al. (2019). Predicting Speech Outcomes After Cochlear Implantation in Older Adults Using the Self-administered Gerocognitive Examination Test. *Otol Neurotol*.
192. Wells M, Birchard Z (2019). A 40-Year-Old Male Presenting with Hereditary Multiple Exostosis: Management and Considerations. *Case Rep Orthop* 2019: 4793043.
193. White PB, Sharma M, Siddiqi A et al. (2019). Role of Anatomical Patella Replacement on Anterior Knee Pain. *J Arthroplasty* 34: 887-892.
194. Whitehead C, Grider MH (2019). Neuroanatomy, Touch Receptor.
195. Wills S, Hochmuth LK, Bauer KS, Jr. et al. (2019). Durvalumab: a newly approved checkpoint inhibitor for the treatment of urothelial carcinoma. *Curr Probl Cancer* 43: 181-194.
196. Witek J, Flores JL (2019). Biochemistry, Merosin.
197. Witek J, Mohiuddin SS (2019). Biochemistry, Pseudogenes.
198. Wolf TA, Wimalawansa SJ, Razzaque MS (2019). Procalcitonin as a biomarker for critically ill patients with sepsis: Effects of vitamin D supplementation. *J Steroid Biochem Mol Biol* 193: 105428.
199. Woodmass JM, Wagner ER, Solberg M et al. (2019). Latarjet Procedure for the Treatment of Anterior Glenohumeral Instability. *JBJS Essent Surg Tech* 9: e31.
200. Yadavalli T, Ames J, Agelidis A et al. (2019). Drug-encapsulated carbon (DECON): A novel platform for enhanced drug delivery. *Sci Adv* 5: eaax0780.
201. Yoon TYH, Dinh TN, Kong HJ (2019). The Use of Computer-Guided Surgery to Avoid Severe Buccal Defect and Lingual Concavity in Mandibular Implant Placement. *Compend Contin Educ Dent* 40: e1-e5.
202. Zaveri N, Coty M, McCarver V et al. (2019). Changes to an active learning curriculum in osteopathic medical education: effects on exam outcomes and board scores. *Medical Student Educator* 29: 215-222.

## GRANTS

### LECOM Intramural Seed grants 2018-19

Name	School	Project type	Project name	Amount requested	Awarded amount
Armstrong, Este	COM - SH	General Basic Science	Morphometric Analysis of the Posterior Cingulate Cortex	\$13,554.56	\$13,554.56
<i>Danahy, Paul</i>	<i>COM - B</i>	<i>N/A</i>	<i>N/A - Withdrawn</i>	<i>N/A</i>	<i>N/A</i>
Lorenzo, Santiago	COM - B	Osteopathic Manipulative Medicine	Combined Effects of OMT and Bio Electro-Magnetic Regulation Therapy in Low Back Pain	\$8,410.00	\$8,410.00
Lorenzo, Santiago	COM - B	Osteopathic Manipulative Medicine	Assessment of Pulmonary Function in OMT vs Standard of Care in Individuals with Decreased Lung Function	\$1,750.00	\$1,750.00
Ray, Amitabha	COM - SH	General Basic Science	Effects of Exercise on the Inflammatory Biomarker C-Reactive Protein with Reference to Body's Stress and Energy Homeostasis Status	\$12,000.00	\$12,000.00
Tuck, Joshua	COM-E	Osteopathic Manipulative Medicine	Evaluation of the MSDR during a Feasibility Assessment of Physical therapy in relation to Osteopathic manipulative medicine in the management of Shoulder arthropathies - the EMFAPOS Study	\$15,000.00	\$15,000.00
Nolan, Todd	SDM	General Basic Science	Effects of High Doses of B6 Pyridoxine on Motor Neurons and Glial Cells	\$17,351.04	\$17,351.04
Lamichhane, Purushottam	SDM	General Basic Science	Regulation of Inflammation in Periodontitis	\$20,000.00	\$20,000.00
Leah Labranche	COM-E	Health Professions Education	Development and Evaluation of a Novel Stereoscopic Anatomy Model	\$15 396.00	\$15 396.00
He, Ping	COM-E	General Basic Science	A Comprehensive Investigation of Inorganic Phosphate Induced Cell Responses	\$20,000.00	\$20,000.00
Kulesza, Randy	COM-E	General Basic Science	Brainstem auditory evoked potentials in an animal model of autism spectrum disorder	\$19,549.00	\$19,549.00

- The grant period for Dr. He is 7 months, beginning December 1, 2018 ending June 20, 2019.
- The grant period for Dr. Kulesza is 6 months, beginning January 1, 2019 ending June 20, 2019.
- The grant period for Leah is 6 months, beginning January 1, 2019 ending June 20, 2019.



## LECOM Intramural Seed grants 2019-20

NAME	SCHOOL/ CAMPUS	PROJECT TYPE	PROJECT NAME	AMOUNT REQUEST ED	AWARD AMOUN T
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

**2018 – 2019 LECOM/LECOMT Seed Grants**

<b>Grant #</b>	<b>Primary Investigator</b>	<b>Additional Investigator</b>	<b>Institution</b>	<b>Research Title</b>
J2018.06	Matthew Adamo		Mercy-St. Elizabeth Boardman, Emergency Medicine	“Effect of a Resident Wellness Program on Emergency Medicine Resident Physicians”
J2018.23	Roger Biringer, PhD		LECOM Bradenton	“Characterizing Na, K-ATPase activity and endogenous ligands in migraine”
J2018.15	Roger Biringer, PhD	Thomas Quinn, DO	LECOM Bradenton Student Research Association	“Fractionation of Samples Containing Potential Cancer Biomarkers”
J2018.24	Saptarshi Biswas, MD	N/A	Forbes Regional Hospital, AHN, Trauma and Acute Care Surgery	"CT scan following urgent or emergent exploratory laparotomy for trauma. Diagnostic yield, missed injuries, re-exploration, Interventional interventions. A retrospective study."
J2018.25	Saptarshi Biswas, MD	N/A	Forbes Regional Hospital, AHN, Trauma and Acute Care Surgery	"Prognostic factors determining outcome in Near Hanging. A 3 year retrospective study in a Regional trauma center"
J2018.26	Saptarshi Biswas, MD	Dr. Fahim Habib	Forbes Regional Hospital, AHN, Trauma and Acute Care Surgery	"Chronic use of opioids in opioid naïve trauma patients. Patterns of prescribing, incidence , risk factors and predictors in a community based Regional Trauma Center. A retrospective study"
J2018.02	Matthew Bogoyas, DO	Alok Dube, M.D.	Larkin Community Hospital, Psychiatry	“Assessing Changes in Perception of Auditory Hallucinations in Schizophrenic Patients after Acute Treatment”
J2018.14	Seth Carter, D.O.		LECOM-MCH	“Evaluation of Aromatherapy Use to Determine Its Effect on the Quality of Life in Nursing Home Residents”
J2018.13	Carmin DiAmico, DO		LECOM, Internal Medicine	“Use of a Novel Algorithm to Improve Accuracy in Diagnosing the Presence, Degree, and Type of Atrioventricular Block from Cardiac Rhythm Strips”
J2018.03	Rayna Doll, DO	Nancy Joseph, DO, PGY4; David McGarry, DO, PGY4	UH Cleveland Medical Center, Allergy and Immunology	“Correlation between transient response to pneumococcal 23-vaccine, IgG, and individual serotype levels”
J2018.27	Bertalan Dudas, MD, PhD, MS	N/A	LECOM Erie, Anatomy	"Regulation of somatic growth by the Substance P neurotransmitter system"
J2018.28	Jonathan Eckstein, DO	Drs. Ahmed, Alam, Davydov	St. John’s Episcopal Hospital, FM	"Impact of Family Health Challenge curriculum on Far Rockaway children and Family Medicine Resident Physicians"
J2018.04	Eckstein, DO	Marysa Mumphrey, DO, PGY2	St. John's Episcopal Hospital, Emergency Medicine	“Resident Training for Communication of Bad News Using Vital Talk Resources”

J2018.21	Karl Falk, D.O.		LECOM	"To evaluate the effect of osteopathic manipulation (OMT/Cranial) occurring via the autonomic nervous system and to evaluate these changes in the ANS throughout the body"
J2018.01	Lidia Firulescu, MD	Elizabeth Potter, DO, PhD, PGY3	Larkin Community Hospital, Psychiatry	"Fostering a Better GME Experience by Reducing Physician's Burnout and Improving the Work Environment"
J2018.29	Brandon Fornwalt, DO	Kyle Quillin, DO; Jared Bunevich, DO	Mercy-St. Elizabeth Boardman Hospital, ENT	"Improving surgical training: does video review increase attending operative feedback to residents"
J2018.30	David Friedman, MD	Avinaj John, DO, MA	Manatee Memorial Hospital, Cardiovascular	"Implementing solid organ printing into clinical practice for better size selection and placement of WATCHMAN devices in patients with Atrial Fibrillation"
J2018.38	Derek Hayden, DO	Richard Trevino, MD	Wellspan York Hospital, Orthopedics	"Endoscopic Carpal Tunnel Release, Infection Incidence, and Prophylactic Antibiotics: Indicated or Kick the Habit?"
J2018.18	Kenny Hirschi		LECOM-MCH, Psychiatry	"Vitamin D Supplementation as an Adjunctive Treatment for Symptoms of Major Depressive Disorder in the child and adolescent population"
J2018.07	Cary Jordan, PhD	Sara Beel; Harinder Kaur, MD	Mercy-St. Elizabeth Boardman, Family Medicine Residency	"Enhancing Family Medicine Inpatient Resident Care through the Use of Technology"
J2018.11	Ryan Krogmann		Western Reserve, Otolaryngology	"Psychiatric diseases secondary to undiagnosed Hyperparathyroidism"
J2018.17	Randy J.Kulesza, DO		LECOM, Pre-Clinical	Oropharyngeal sensory and motor circuits in an animal model of autism"
J2018.20	Miriam Kulkarni, MD	J. Park, MD; E. Fernandez, PhD	St. John's Riverside	"Ensuring Procedural Competency—Creating a multi-specialty boot camp for graduating fourth year students"
J2018.32	Leah Labranche, MSc	Drs. Kulesza, Terrell, Carty, Wilson	LECOM Erie	"Exploring the Relationship between 3D Anatomical Resources and Spatial Ability"
J2018.33	Santiago Lorenzo, Ph.D., M.S.	Mei Lin Margono & Thomas Quinn, DO	LECOM Bradenton	"Assessment of pulmonary function in OMT versus standard care in individuals with decreased lung function"
J2018.10	Thomas Macabobby, MD, FAAFP		Mercy-St. Elizabeth Boardman, Family Medicine Residency	"Board Review Preparation Intervention for New Family Medicine Residency"
J2018.34	Stephen Martin, DO	N/A	Clarion Hospital	"Accuracy and Precision of Fused Deposition Modeling Using 1.75mm Polylactic Acid Filament on Prusa-13 Platform 3D Printer form 64-Slice Low-Dose CT DICOM Data"
J2018.09	Craig McDonough, DO	Matthew Eggleston, DO	Mercy-St. Elizabeth Boardman, Emergency Medicine	"Emergency Department Placed Fascia Iliaca Compartment Block and its Effect on Post-Surgical Outcomes, Inpatient Usage and Length of Stay"
J2018.08	Don McLean, MS, MA		Niagara Falls Memorial Medical Center, Family Medicine	"Utilization of Voice Recognition for EMR"

J2018.05	Seth Parkey, DO	Jestin Carlson, MD	AHN Saint Vincent Health Center	"Fiberoptic Nasotracheal Intubation vs Traditional Blind method in the setting of simulated Angioedema"
J2018.37	Gurdeep Singh, MD	N/A	Our Lady of Lourdes-Ascension, Endocrinology	"Role of Vitamin D Level in Postoperative Hypocalcemia after Total Thyroidectomy"
J2018.16	Eric Smith, DO		LECOM-MCH, Psychiatry	"Virtual Reality to treat depression in residents of long term care facilities"
J2018.22	Diana Speelman, PhD		Lake Erie College of Osteopathic Medicine, Biochemistry	"Effect of a high-sugar diet on metabolic, endocrine, and tissue health in a prenatally androgenized rat model for polycystic ovary syndrome"
	Diana Speelman, PhD		Lake Erie College of Osteopathic Medicine, Biochemistry	Prenatally androgenized rat model of PCOS to assess insulin signaling and adipose function in peripubertal and adult female rats
J2018.19	Zofia Tynski, MD, FCAP	Way Chiang, DO, PGY2	Clarion Hospital, Pathology	"Case Reports"
J2018.39	Daniel Urias, MD	D'Arcy Duke, MD	Conemaugh Memorial Medical Center, General Surgery	"Goal Directed Thromboprophylactic Dosing in Bariatric Surgery Using ROTEM"
J2018.12	Jonathan Wynbrandt MD		UH Richmond Medical Center, Internal & Family Medicine	"Supervision at a Glance"

#### Extramural Grant Submitted – not funded

- 
- R15: PA-18-504: **Dr Ping He, PI**. "**An investigation of inorganic phosphate related tumor initiation and progression**". The small grant (R03) supports new research projects that can be carried out in a short period of time with limited resources. They are awarded for up to two years and are not renewable. R03s are not intended for new investigators.