



Research Report

LECOM

2018

PREPARED BY:

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

JOURNAL ARTICLES

Cumulative Impact Factor: **145.044**

Accepted/Published articles

1. **Weaver NC, Habusta SF and Raymond RM.** The role of extra-cellular adenosine receptors in modulating pain progression during osteoarthritis (OA): A systematic review of the literature. *Rheumatology and Orthopedic Medicine* Volume 3(4): 1-5.
2. Dexter Jordan Witchey, Nichole Brienne Witchey, Michele Marie Roth-Kauffman, **Mark Kevin Kauffman.** Plantar Warts: Highlighting the Relationship Between Epidemiology, Pathophysiology, and Adequate Clinical Management. *Journal of the American Osteopathic Association*, February 2018, Vol. 118, 92-105. doi:10.7556/jaoa.2018.024.
3. A Teets, L Pham, EL Tran, L Hochmuth, **R Deshmukh.** Avelumab: A Novel Anti-PD-L1 Agent in the Treatment of Merkel Cell Carcinoma and Urothelial Cell Carcinoma. *Critical Reviews in Immunology*. Volume 38, 2018 Issue 3, pages 159-206.
4. Hitender Sharma, Pushpander Kumar, **Rahul R Deshmukh**, Anupam Bishayee, Sunil Kumar. Pentacyclic triterpenes: New tools to fight metabolic syndrome. *Phytomedicine*, Available online 5 September 2018.
5. Stephanie Wills, Lana K Hochmuth, Kenneth S Bauer, **Rahul R. Deshmukh.** Durvalumab: A Newly Approved Checkpoint Inhibitor for the Treatment of Urothelial Carcinoma, 'Current Problems in Cancer'. Accepted in but not in print yet.
6. Rahul Haware, Bhavani Prasad Vinjamuri, Monica Gavireddi, Vivek S. Dave, **Deepak Gupta**, Mahavir Chougule, William Stagner; Physical Properties and Solubility of Nifedipine-PEG 1450/HPMCAS-HF Solid Dispersions. *Pharm Dev Technol.* Sep 2018, pp 1-23. doi: 10.1080/10837450.2018.1519573. [Epub ahead of print]
7. **Deepak Gupta**, Deepak Bhatia, Vivek Dave, Vijaykumar Sutariya, Sheeba Varghese Gupta; Salts of Therapeutic Agents: Chemical, Physicochemical and Biological Considerations. *Molecules*, July 2018, 23(7), 1719; doi:10.3390/molecules23071719
8. Leonelli Carmen, **Morani Aashish.** Over-The-Counter Drug Abuse: Problems and Prevention. *Glob J Add & Rehab Med.* 2018; 5(4): 555668.
9. Parajuli P, Kumar S, Loumaye A, Singh P, Eragamreddy S, Nguyen TL, Ozkan S, **Razzaque MS**, Prunier C, Thissen JP, Atfi A. Twist1 Activation in Muscle Progenitor Cells Causes Muscle Loss Akin to Cancer Cachexia. *Dev Cell.* 2018 Jun; 45(6):712-725. PMID: 29920276.

10. Uwitonze AM, Murererehe J, Ineza MC, Harelimana EI, Nsabimana U, Uwambaye P, Gatarayiha A, Haq A, **Razzaque MS**. Effects of vitamin D status on oral health. *J Steroid Biochem Mol Biol*. 2018 Jan; 175:190-194. PMID: 28161532.
11. Haq A, Svobodová J, Sofi NY, Jindrová A, Kába B, Rajah J, Al Anouti F, Abdel-Wareth L, Wimalawansa SJ, **Razzaque MS**. Vitamin D status among the juvenile population: A retrospective study. *J Steroid Biochem Mol Biol*. 2018 Jan; 175:49-54. PMID: 28108200.
12. Nicotra C, Mentreddy A, Padia H, Stewart D, Hussein M, **Quinn T, and Lorenzo, S.** (2018) The Assessment of Pulmonary Function with Osteopathic Manipulative Treatments Versus Standard Respiratory Therapy in a Healthy Population. *Journal of the American Osteopathic Association*. In press.
13. Combined Effects of OMT and Bio Electro-Magnetic Regulation Therapy in Low Back Pain (\$8,410.00) Sarah Erem, **Mohammed S. Razzaque**. Dietary phosphate toxicity: an emerging global health concern. *Histochemistry and Cell Biology*, pp 1–9, 2018.
14. **Hudder, A. Tackett, S. and Moscatello, K.** First-year experience implementing an adaptive learning platform for first and second year medical students at Lake Erie College of Osteopathic Medicine. *JAOA* Dec 2018.
15. Amanda Smith, Samantha Storti, Richard Lukose, **Randy Kulesza**. Structural and functional aberrations of the auditory brainstem in autism spectrum disorder *JAOA* 5/30/2018
16. Elizabeth Harrington, Kristen Gawronski. An Advanced Pharmacy Practice Experience in Academia: More Benefit than Burden! *Currents in Pharmacy Teaching and Learning* 10(4) 399 402 5/30/2018
17. Terri D'Arrigo (She interviewed Dr. Kelly Scolaro for the story) Pharmacists and patients partner for better home BP monitoring *PharmacyToday* May 2018 26 27 5/30/2018
18. **Labranche L, Sweeney S, Storti S, Kalmey J, Kulesza R** Identification of an aberrant testicular vein draining the right kidney *International Journal of Anatomical Variations* 1/12/2018 Accepted.
19. **Kalmey, JK, McCarthy S.** Anatomical Dissection of a Cadaver with Congenital Scoliosis *Folia Morphologica* 73 389 394
20. **Jonathan Kalmey and Randy Kulesza** Gross Anatomy Forums: Synthesizing, Assimilating, and Applying Clinical Anatomy *Medical Science Educator* 24 249 252
21. **Blackburn, K, Labranche, L, Kalmey, J, Kulesza, R** A Case of a Single Intracranial Vertebral Artery and Cerebral Infarct *Folia Morphologica* 76(1) 134 138
22. **Moscatello K, Kalmey J, Keller C.** Ten-Year Comparison of a Traditional Lecture Curriculum with an Independent Study Curriculum on COMPLEX Performance *International Journal of Anatomical Variations* 27 447 449
23. **Foran L, Kupelian C, Loaria S, Esper J, Kulesza R.** Neonatal exposure to monosodium glutamate results in dysmorphology of orofacial lower motor neurons *Folia Morphologica*. 2017 doi:10.5603/FM.a2017.0052.

24. **Allen, EN**, Potdar S, Tapias V, Parmar M, Mizuno CS, Rimando A, Cavanaugh JE. Resveratrol and pinostilbene confer neuroprotection against aging-related deficits through an ERK1/2-dependent mechanism. *Journal of Nutritional Biochemistry* 54(2018) 77-86.
25. **Mark Terrell**, Roberts W, Price CW, Michael Slater (OMS), Loukas M, and Justine Schober. Anatomy of the pedicled anterolateral thigh flap for phalloplasty in transitioning males. Accepted, *Clinical Anatomy*.
26. Kim S, Margeaux Dennis (OMS), Holland J, **Mark Terrell**, Loukas M, and Justine Schober. The anatomy of abdominal flap phalloplasty for transgender surgery. Accepted, *Clinical Anatomy*.
27. Usman Zaheer (OMS), Granger A, Ortiz A, **Mark Terrell**, Loukas M, and Justine Schober. The anatomy of free fibula osteoseptocutaneous flap in neophalloplasty in transgender surgery. Accepted, *Clinical Anatomy*.
28. Michael Slater (OMS), Vinaja X, Islam Aly (OMS), Loukas M, **Mark Terrell**, and Justine Schober. Neovaginal construction with pelvic peritoneum: reviewing an old approach for a new application. Accepted, *Clinical Anatomy*.
29. M. Dennis (OMS), Granger A, Ortiz A, **Mark Terrell**, Loukas M, and Justine Schober. The anatomy of the musculocutaneous latissimus dorsi flap for neophalloplasty. Accepted, *Clinical Anatomy*.
30. Kim S, M. Dennis (OMS), Holland J, **Mark Terrell**, Loukas M, and Justine Schober. The anatomy of forearm free flap phalloplasty for transgender surgery. Accepted, *Clinical Anatomy*.
31. **Moscatello K, Kalmey JK, Keller CC**. Multiple pathways – one goal: How different learning pathways lead to medical student success at LECOM. *Medical Educator*. Accepted with minor revisions.
32. **Thomas YH Yoon DDS**, MS Dylan Tagg Nathan Estrin Douglas Robinson Richard A Michaud DMD Utilization of Cone Beam Computer Tomography to Determine the Prevalence and Anatomical Characteristics of Bifurcated Inferior Alveolar Nerves. *Oral Radiology*. Accepted.
33. Anne Marie Uwitonze, Peace Uwambaye, Moses Isyagi, Chrispinus H. Mumena, **Alice Hudder**, Afrozul Haq, Kamrun Nessa, Mohammed S. Razzaque. Periodontal diseases and adverse pregnancy outcomes: is there a role for vitamin D? *Journal of Steroid Biochemistry & Molecular Biology*. 2018 Jan 16. pii: doi: 10.1016/j.jsbmb.2018.01.010. [Epub ahead of print] PubMed PMID: 29341890.
34. **Jared L. Ostroff, Marissa L. Ostroff, Stephanie Billings, Eric C. Nemecek II**. Integration of transgender care into a pharmacy therapeutics curriculum. *Currents in Pharmacy Teaching and Learning*. Available online 17 January 2018.
35. Wimalawansa SJ, **Razzaque MS**, Al-Daghri NM. Calcium and Vitamin D in Human Health: Hype or Real? *J Steroid Biochem Mol Biol*. 2017 Dec 16. doi: 10.1016/j.jsbmb.2017.12.009. PubMed PMID: 29258769.

36. **Razzaque MS.** Can adverse effects of excessive vitamin D supplementation occur without developing hypervitaminosis D? *J Steroid Biochem Mol Biol.* 2017 Jul 19. doi: 10.1016/j.jsbmb.2017.07.006. [Epub ahead of print] PubMed PMID: 28734988.
37. Calderon-Garciduenas L, Gonzalez-Maciél A, Reynoso-Robles R, Delgado-Chavez R, Mukherjee PS, **Kulesza RJ**, Torres-Jardon RT D'Angiulli A, Villarreral-Rios R Hallmarks of Alzheimer disease are evolving relentlessly in Metropolitan Mexico City infants. *Environmental Research*
38. Zimmerman R, Patel R, Smith A, Pasos J, **Kulesza RJ.** Repeated prenatal exposure to valproic acid results in auditory brainstem hypoplasia and reduced expression of calcium binding proteins *Neuroscience*
39. Labranche L, Quinette J, Hendryx JT, **Kulesza RJ.** Dissection of spinalis capitis and implications for osteopathic treatment. *Int J Anat Var*
40. Calderón-Garcidueñas L, González-González L, **Kulesza RJ**, Fech TM, Pérez-Guillé G, Angel Jiménez-Bravo Luna M, Eugenia Soriano-Rosales R, Solorio E, Miramontes-Higuera J, Gómez-Maqueo Chew A, Bernal-Morúa AF, Mukherjee PS, Torres-Jardón R, Mills PC, Wilson WJ, Pérez-Guillé B, D'Angiulli A. Exposures to fine particulate matter and ozone above USA standards are associated with auditory brainstem dysmorphology and abnormal auditory brainstem evoked potentials in healthy young dogs. *Environmental Research*
41. Fech T, Calderón-Garcidueñas L, **Kulesza RJ.** Characterization of the superior olivary complex of *Canis lupus domesticus*. *Hearing Research*
42. Foran L, Blackburn K, **Kulesza RJ.** Auditory hindbrain atrophy and anomalous calcium binding protein expression after neonatal exposure to monosodium glutamate. *Neuroscience.*
43. **Mansour Y, Mangold S, Chosky D, Kulesza RJ.** Auditory midbrain hypoplasia and dysmorphology after prenatal valproic acid exposure. *Neuroscience*, 396:79-93.
44. **Yoon TY,** Muntean SA, Dinh TN, Michaud RA. Investigation of dental implant referral patterns amongst general dentist and dental specialists: a survey approach. *Compendium online* 1 1
45. Seitz SD, Dinh TN, **Yoon TY.** Melanotic macule in conjunction with a giant cell fibroma: report of a case. *Journal of Contemporary Dentistry.* October 2017 981 985
46. **Damaris Padilla, Hershey Bell.** Letter to the Editor - Flexner, Educational Reform, Social Accountability and Meta-Curriculum *Am J Pharm Educ* 82 83 84
47. **Cole-Jeffrey CT,** Pepine CJ, Katovich MJ, Grant MB, Raizada MK, Hazra S. Beneficial Effects of Angiotensin-(1-7) on CD34+ Cells From Patients With Heart Failure. *J Cardiovasc Pharmacol* 71 155 159
48. Uwitonze AM, **Razzaque MS.** Role of Magnesium in Vitamin D Activation and Function. *J Am Osteopath Assoc.* 118 181 189
49. **Michael Dobrowolski and Dr. Steven Habusta.** "APL Distal Insertion Variability: Cadaveric Variation in Abductor Pollicis Longus Accessory Slip Insertion Site". *National Journal of Orthopaedics.*

50. Marina Kovaliova, **Devora Cohen-Karni** (LECOM-Seton Hill), Kevin A. Burridge , Dorian Mambelli, Samantha Sloane, Nicholas Daman, Chen Xu, Jared Guth, J. Kenneth Wickiser, Nestor Tomycz, Richard C. Page, Dominik Konkolewicz, Saadyah Averick. Grafting strategies for the synthesis of active DNase I polymer biohybrids. *European Polymer Journal*.
51. Brian Peppers, Dr. Robert Hostoffer, **Michael Rowane**, and **Kevin Thomas** *American Academy of Osteopathy Journal*. "National Institutes of Health and Osteopathic Medicine: Another call for action and equality in a legal struggle won long ago"
52. Dedhia K, **Yellon RF**, Branstetter BF, **Best M**; External Auditory Canal: Inferior, Posterior-Inferior, and Anterior Canal Wall Overhangs. *Inter J Ped Otorhinolaryngology*, 2018 June; vol.109: 138-143.
53. Calderon-Garciduenas L, Gonzalez-Maciell A, Reynoso-Robles R, Delgado-Chavez R, Mukherjee PS, **Kulesza RJ**, Torres-Jardon RT D'Angiulli A, Villarreral-Rios R Hallmarks of Alzheimer disease are evolving relentlessly in Metropolitan Mexico City infants. *Environmental Research*
54. Ami Shah (OMS-1) and Isaac Nivar (OMS-2) and **Diana Speelman**. "Elevated androstenedione in young adult but not early adolescent prenatally androgenized female rats *PLoS One*.
55. **Razzaque MS** (COM-Erie). "Phosphate toxicity and tumorigenesis", published in "BBA - Reviews on Cancer". Volume 1869, Issue 2, April 2018, Pages 303-309 <https://www.sciencedirect.com/science/article/pii/S0304419X18300428>
56. Kathleen Hitchcock, Kelly L. Scolaro, Madge Potts-Williams, Crystal Toloza, Ian Toloza, **Stephanie Peshek**. Pharmacy and Dental Student Interprofessional Collaboration: The Impact on Patients. *American Journal of Pharmaceutical Education* 82 526 526 8/17/2018
57. **Yoon TY**. OneGuide Surgical Kit. Dental Product Shopper. April 2018. <http://www.dentalproductshopper.com>.
58. Supriya Srinivasan, Tulasigeri Totiger, Chanjuan Shi, Jason Castellanos, **Purushottam Lamichhane**, Austin R Dosch, Fanuel Messaggio, Nilesh Kashikar, Kumaraswamy Honnenahally, Yuguang Ban, Nipun B Merchant, Michael N. VanSaun and Nagaraj S Nagathihalli. Tobacco Carcinogen-Induced Production of GM-CSF Activates CREB to Promote Pancreatic Cancer. *Cancer Res* September 19 2018 DOI: 10.1158/0008-5472.CAN-18-0579. In Press. 8.556
59. Nagaraj S Nagathihalli, Jason Castellanos, **Purushottam Lamichhane**, Fanuel Messaggio, Chanjuan Shi, Xizi Dai, Priyamvada Rai, Xi Chen, Michael N. VanSaun and Nipun B Merchant. Inverse Correlation of STAT3 and MEK Signaling Mediates Resistance to RAS Pathway Inhibition in Pancreatic Cancer. *Cancer Res* August 28 2018 DOI: 10.1158/0008-5472.CAN-18-0634. In Press. 8.556
60. **Lamichhane, P**. Oral Microbiome and Response to Immunotherapy: Is It Time to Pay Attention? *On J Dent & Oral Health*. August 2018. 1(1): 2018. OJDOH.MS.ID.000501. In Press.

61. J-F Roulet, **Hind Hussein, Nader Abdulhameed**, Chiayi Shen. In vitro wear of two bioactive composites and a glass ionomer cement, August 2018 Deutsche Zahnärztliche Zeitschrift, In Press.0.36
62. **Hussein HS, Abdulhameed N**, Shen C, Dolce C, Roulet J-F. Bonding of orthodontic resin cement to zirconium oxide under load and thermocycling. Stoma Edu J. 2018;5(2):102-108.
63. **Yoon TY**, Ahmadi AG, Saed NA, Estrin NE, **Millner DE, Dinh TN**. Utilization of Cone Beam Computer Tomography to Determine the Prevalence and Anatomical Characteristics of the Accessory Mental Foramen. Accepted in Gen Dent. Anticipated date of publication: August 2019.
64. Nicholas Allen, BS; **Thomas Yoon, DDS, MS**; Kirk Zeller, DDS; **Purushottam Lamichhane PhD; Mark Zmiywsky, DDS**. Individual Preference on Grading Systems in Dental Schools. Accepted in On J Dent & Oral Health.
65. Bonier JR, Bonier JH and **Habusta SF**. Patient Perceptions Regarding Viscosupplementation for Treatment of Osteoarthritis of the Knee. Physiotherapy Open Access Journal. 2018, 1(1): 000102.
66. Bronwyn M. Kivell, Kelly F. Paton, Nitin Kumar, **Aashish S. Morani**, Aimee Culverhouse, Amy Shepherd, Susan A. Welsh, Andrew Biggerstaff, Rachel S. Crowley and Thomas E. Prisinzano. Kappa Opioid Receptor Agonist Mesyl Sal B Attenuates Behavioral Sensitization to Cocaine with Fewer Aversive Side-Effects than Salvinorin A in Rodents. Molecules 2018, 23, 2602; doi: 10.3390/molecules23102602.
67. **Olga Stetsyuk, DO**. Characterization of the retinal nerve fiber layer thickness in Nepalese cohort by spectral domain optical coherence tomography. Journal of POMA, 2018 September issue, pp 12-15.
68. **Peter Laucks DO**. Medication Reconciliation: obstacles to compliance. Journal of POMA, 2018 September issue, pp 16-21.
69. **Nemunaitis JA**, Ninetemp L. The numerical Lachman's grading scale and its relation to partial tears of the anteromedial and the posterolateral bundle of the anterior cruciate ligament in the cadaveric model. Journal of POMA, pp 10-13, 2018 June.
70. **Fretwell JL**. Prevalence of acute hepatitis C virus in the drug and alcohol detoxification, psychiatric, and general medical units of a rural hospital in Pennsylvania. Journal of POMA, pp 14-16, 2018 June.
71. **Anna E. Augustin**. Full risk, full reward: managed care. J of POMA, March 2018. pp14-16.
72. **Chad Walls**. Criteria and controversies regarding surgical vs conservative management of fractures of the shoulder girdle: a meta analysis. J of POMA, March 2018. pp. 17-20.
73. **Diana Speelman** Nonpharmacologic management of symptoms in women with polycystic ovary syndrome: a narrative review. JAOA

74. Davis S, Hendryx J, Bouwer S, Menezes C, Menezes H, Patel V, and **Speelman DL** Correlation between physiologic and osteopathic measures of sympathetic activity in women with PCOS JAOA
75. Davis S, Hendryx J, Menezes C, Menezes H, Bouwer S, Patel V, Smith CA, and **Speelman DL** Weekly OMT improves some aspects of sympathetic tone in women with PCOS: a randomized, controlled trial JAOA
76. **Thomas A. Quinn, DO.** "Jeanette 'Nettie' Bolles, First Female DO". Journal of the American Osteopathic Association, Jan 2019 Issue.
77. Joshua R. Heyza, Sanjeevani Arora, Hao Zhang, Kayla L. Conner, Wen Lei, Ashley M. Floyd, **Rahul R. Deshmukh**, Jeffrey Sarver, Christopher J. Trabbic, Paul Erhardt, Tak-Hang Chan, Q. Ping Dou and Steve M. Patrick. Targeting the DNA Repair Endonuclease ERCC1-XPF with Green Tea Polyphenol Epigallocatechin-3-Gallate (EGCG) and Its Prodrug to Enhance Cisplatin Efficacy in Human Cancer Cells. *Nutrients* 2018, 10(11), 1644.
78. Tulasigeri M Totiger, Supriya Srinivasan, Venkatakrishna R Jala, **Purushottam Lamichhane**, Austin R Dosch, Alexander A. Gaidarski, Chandrashekar Joshi, Shobith Rangappa, Jason Castellanos, Praveen Kumar Vemula, Xi Chen, Deukwo Kwon, Nilesh Kashikar, Michael VanSaun, Nipun B Merchant and Nagaraj S Nagathihalli. Urolithin A, a novel natural compound to target PI3K/AKT/mTOR pathway in pancreatic cancer. *Molecular Cancer Therapeutics*. DOI: 10.1158/1535-7163.MCT-18-0464. IF: 5.365
79. **Purushottam Lamichhane**, Neha Amin, Manuj Agarwal, Narottam Lamichhane. Checkpoint Inhibition: Will Combination with Radiotherapy and Nanoparticle-Mediated Delivery Improve Efficacy? *Medicines* 2018, 5(4), 114; <https://doi.org/10.3390/medicines5040114>.
80. **James N. Cornwell.** Osteopathic manipulative medicine in sports medicine: a survey gauging attitudes and its incorporation into practice by sports medicine physicians. *Journal of American Osteopathic Association*, December 2018, pp 19-22.
81. **Steven Ward.** The use and effectiveness of texting in healthcare: a survey of medical professionals. *Journal of American Osteopathic Association*, December 2018, pp 15-18.

Submitted Articles

1. **Thomas Corso, PhD; George Grignol; Randy Kulesza, PhD;** Istvan Merchenthaler, MD, PhD, DSc; **Bertalan Dudas MD, PhD.** Accessory mammillary bodies formed by the enlarged lateral mammillary nuclei: cytoarchitecture. Submitted to *Brain Structure and Function*.
2. Bronwyn Kivell , Paton K, Kumar N, **Morani Aashish**, Culverhouse A, Shepherd A, Welsh S, Andrew Biggerstaff, Thomas Prisinzano. Kappa Opioid Receptor Agonist Mesyl Sal B Attenuates Behavioral Sensitization to Cocaine With Fewer Aversive Side-effects Than the Parent Compound Salvinorin A. (In Review) *Molecules*.
3. Carter, S., Terrell, M., Stevich-Heemer, B., and **Hudder, A.** Evaluation of Delivering Genomic and Pharmacogenomic Sessions in an Interprofessional Setting. Submitted to JAOA Dec 2017.
4. **Mark A.W. Andrews, Ph.D., FNAOME.** The Stretch Receptor and Somatic Dysfunction, a Narrative Review. Full manuscript, Submitted: JAOA 12/2017.
5. **Thomas Corso, Kristina R. Semeniken, Phillip Miller, DeanAnn Farris, Matthew Parry, Vincent Petros, and Bertalan Dudas.** Effects of osteopathic cranial manipulation on biogenic amine levels, heart rate and blood pressure in adult humans. Full manuscript, Submitted to JAOA.
6. Brian L. Risavi, Barrett McLaughlin, Dustin Stuart, Donald L. Holsten, **Mark A. Terrell.** Effectiveness of a Formal Curriculum in Teaching Mass Casualty Management. Rejected by Prehospital Emergency care; under resubmission to a different journal.
7. **Patrick Leary DO, Mark Kauffman DO.** Comparing Vitamin D3 Levels of our LECOM students from Erie, Pennsylvania and Bradenton, Florida. JAOA.
8. 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*.
9. **Patricio Bruno, DO.** Combat-driven TACEVAC- FEVER Operations- a synopsis. *Journal of Special Operations Medicine*.
10. **Patricio Bruno, DO.** Alignment of Graduate Medical Education Accreditation- what about the details? *Academic Medicine*.
11. **Kevin Keith, DO, MS Molly Johannessen, PhD, MSc, MEd Danielle Hansen, DO, MS, MHSA.** Perceived value of virtual simulator training in arthroscopy: an osteopathic orthopedic surgery resident survey. Resubmitted with requested changes to JAOA.
12. **Hershey Bell,** Abbey Krysiak Stephen Carfangia Nam Kar Sean Bogart. The Use of A Professor's Blog in a Drug Literature Information Course Series *Am J Pharm Educ* 10/2/2017.

13. Patel V, Bouwer S, Menezes C, Menezes H, Smith C, and **Speelman DL**. Regular yoga practice as a method to improve androgen levels in women with polycystic ovary syndrome: a randomized, controlled trial. Submitted to BMC Complementary and Alternative Medicine on December 28, 2017.
14. Davis SE, Hendryx J, Bouwer S, Menezes C, Menezes H, Patel V, and **Speelman DL**. Correlation between physiologic and osteopathic measures of sympathetic activity in women with polycystic ovary syndrome. Submitted to the Journal of the American Osteopathic Association on January 3, 2018.
15. **Speelman DL**. Nonpharmacologic management of symptoms in women with polycystic ovary syndrome: a narrative review. Submitted to the Journal of the American Osteopathic Association on January 5, 2018.
16. Nzabonimana E, Isyagi M, Njunwa KN, Hackley D, **Razzaque MS**. Use of online medical database for clinical decision-making process: assessment of knowledge, attitude and practice of oral healthcare providers. *Advances in Medical Education & Practice* (in revision).
17. Mark Kauffman Patton, J, Michael, M, Kauffman M, Roth-Kauffman M. Verruca plantaris prophylaxis at nine-months: a randomized trial. *Br J of Dermatol*.

Accepted/Published Book/Chapter

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1. **Hershey S. Bell, MD, MS**. *When Life Is On The Line: Stories, Wisdom and Facts for New and Experienced Educators* First 2018/2019 TBD
 2. **Scolaro KL**. *Handbook of Nonprescription Drugs* 19th 2018 AphA
 3. Brown RB, **Razzaque MS**. “Textbook of Nephro-Endrocrinology” 2nd 2018 ELSEVIER publisher
 4. **Farr WD**. *The Death of the Golden Hour and the Return of the Future Guerrilla Hospital. Joint Special Operations* University Press: MacDill Air Force Base, FL. 2017.
 5. **Deepak Gupta**, Yang, Ningning, Sheeba Varghese Gupta; Invitation to write book chapter on “Understanding the routes of administration” book on *Handbook of Space Pharmaceuticals* to be published by Springer. Submitted and accepted June 18, 2018.
 6. **Deepak Gupta**, *Impact of Genomics on Drug Discovery and Clinical Medicine*, Book subtitle: *Trends in Disease Prevention and Treatment*, Book title: *Genomics-Driven Healthcare*, ISBN: 978-981-10-7505-6. Publisher: Springer Nature. Author proof submitted March 23, 2018.

ABSTRACTS

1. Calderón-Garcidueñas L, González-González LO, **Kulesza RJ**, Fech TM, Pérez-Guillé G, Luna MAJ, Soriano-Rosales RE, Solorio E, Miramontes-Higuera JJ, Gómez-Maqueo Chew A, Bernal-Morúa AF, Mukherjee PS, Torres-Jardón R, Mills PC, Wilson WJ, Pérez-Guillé B, D'Angiulli A. Exposures to fine particulate matter and ozone is associated with auditory brainstem dysmorphology and abnormal auditory brainstem evoked potentials in healthy young dogs. Submitted to Audiology Australia's 23rd National Conference, Sydney AU May 2018.
2. Dalton Fishel, Keawe Makiamoku, **Kristen Gawronski**. Retrospective Evaluation of Fall Admissions in Geriatric Patients American Society of Health-Systems Pharmacists Clinical Midyear Meeting Las Vegas, NV 12/5/2016 Y 2/9/2018
3. Lauren Bobby, **Kristen Gawronski**. Emerging Therapies for the Treatment of Neonatal Abstinence Syndrome ASHP Midyear Clinical Meeting Orlando, FL 12/4/2017 Y 2/9/2018
4. **Mirza S, Miroshnyk I, Weitz D**. Encapsulation of 5-Fluorouracil for Controlled Release: Microfluidic Chip-Based Approach. American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition Orlando, FL, USA 10/26/2015 N 2/2/2018
5. **Mirza S, Miroshnyk I, Quadir M**. Hyperbranched Polyglycerol as Release-Modifiers for Directly Compressed, Controlled-Release Matrix Tablets. American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition Orlando, FL, USA. 10/27/2015 Y 2/2/2018
6. Clare Dyczkowski, Emma Wysocki, **Kristen Gawronski**. Boosting Student Confidence in Core Curricular Competencies through Student-Led Journal Clubs AACP Annual Meeting Nashville, TN 7/21/2018 N 2/9/2018
7. Patricia Railing, PharmD Candidate, Daniel Austin, PharmD, MS, **Kristen Gawronski, PharmD**. Drug Safety Labeling Changes of the Top 300 Drugs American Pharmacists' Association Annual Meeting Nashville, TN 3/17/2018 N 10/2/2017
8. **Scolaro KL, Yero T, Bell H** Cultivating self-awareness through multiple reflection experiences. American Association of Colleges of Pharmacy Annual Meeting Nashville, TN 7/15/2017 Y 3/19/2018
9. Patel V, Menezes C, Menezes H, Bouwer S, and **Speelman DL**. Regular yoga practice as a method to improve androgen levels and psychological health in women with PCOS. Board MON-299. Endocrine Society Meeting Annual Meeting (2018) - Presented poster.
10. **Parisis N (OMS), Best M**, Schroeder K. Novel PPAR γ Binding Peptides: an in-silico analysis. 2018 Florida Chapter ACP, Annual Residents & Medical Students Meeting, Orlando, FL, March 24, 2018.

11. **Mohammed Razzaque** had a seminar presentation at 7th International Conference on Vitamin D Deficiency, Nutrition & Human Health. January 25-26, 2018, Abu Dhabi, U.A.E.
12. **Mark A.W. Andrews, PhD, FNAOME**, Sunday, March 25, "Korr and Denslow: Stretch Receptors in Facilitation and Recent Research" Oral Plenary presentation at the 2018 AAO Convocation. Dallas TX.
13. **Ghazal Blair, Rashad Dalaq, Mavis Sakyi, Linh Tran, Derek Whitecotton**
Advisor: Dr. Kelly Scolaro. Do the benefits of prophylactic antibiotics for asthma/COPD outweigh the risks? LECOM Research Day Poster won 1st place Bradenton, FL 4/19/2018
14. **Hitchcock, K, Scolaro, KL, Peshek S.** Pharmacy and Dental Student Interprofessional Collaboration: The Impact on Patients AACP Annual Meeting Boston, MA 7/23/2018
15. **Dr. Mark Andrews:** Keynote address at the American Academy of Osteopathy at Dallas, TX, March 25, 2018. Title: "Korr and Denslow: Stretch Receptors in Facilitation and Recent Research"
16. Black E, Ahmadi AG, Vazana S, **Yoon TY**, Lipton B. The Significance of Environmental Effects on Dental Implants for Forensic Science Victim Identification. 2018 Hinman Research Symposium. November 2018.
17. Elborz Sarfarzadeh, Kimia Ahmadian, **Thomas Yoon, DMD**, Timothy Halligan, DMD and Julie Brown, PhD. "Periodontitis and Inflammation: Analysis of Cytokines" 9th AADR Fall Focused Symposium: Advances in Precision Oral Health Research.
18. **Erika N. Allen, Leah Labranche, Molly Johannessen.** Critical Thinking Skill Assessment and Development within the Post-Baccalaureate Program at Lake Erie College of Osteopathic Medicine Educating Leaders 2019, the AACOM Annual Conference Washington, DC 4/10/2019.

Extramural Grants

Randy Kulesza. Characterization of large axon terminals in the human auditory brainstem - Whitehall - 50000.00. Submitted, not funded.

Alicia Risner-Bauman DDS, FADPD has finished a project that was funded by a \$25K grant from the Dental Trade Alliance Foundation. Title of the program: “Caring for the Oral Health of Individuals with Special Needs.” A summary of this project will be presented at the Special Care Dentistry Association Annual Meeting in April.

Diana Speelman was awarded a total of \$87,605.50 by the American Osteopathic Association (AOA) on June 15, 2016 to fund her project, "Use of Osteopathic Principles for Nonpharmacologic, Therapeutic Interventions in Obese Women with Polycystic Ovary Syndrome," between September 1, 2016 and February 28, 2018.

Moscatello K. and Hudder A: “Evaluation of Osmosis in Medical Education: A Model System for Evaluation of the Effectiveness of Board Preparation Programs”. \$8755, AACOM.

Dr Ping He is targeting different funding opportunities from **NIH** with the deadline at middle of February, 2019, for his study entitled “**A comprehensive investigation of inorganic phosphate related tumor development and cell injury**”.

- R03: PA-19-052, PA-18-021: The Academic Research Enhancement Award (R15) program supports small-scale research projects to expose students to research and strengthen the research environment at educational institutions that have not been major recipients of NIH support. They are awarded for up to three years. Deadline: February 16.
- R15: PA-18-504: 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. Deadline: February 25.
- K01: PA-18-369: The Research Scientist Development Award (K01) supports those with a research or health-professional doctoral degree and research development plans in epidemiology, computational modeling, or outcomes research.

2017 – 2018 LECOM/LECOMT Seed Grants

	Investigator(s)	Institution	Program	Research Title	Amount Awarded
1	Kulesza, PhD	LECOM	Pre-Clinical	"The Impact of Maternal Inflammator Responses on Structure and Function of the Cerebellum"	4,874.40
2	Leininger, DO	MCH	Orthopedic Surgery Residency	"Cadaveric Study of Barbed Suture Achilles Tendon Repair"	2,020.00
3	Macabobby, MD, FAAFP	St. Elizabeth Boardman	Family Medicine Residency	"Facilitating Formal Transitions of Care Through the Use of Multimedia Equipment"	2,001.86
4	McCarthy, DO	Allegheny Health Network-St. Vincent Health Center	Emergency Medicine	"Improving Resident Understanding of Evidence Based Medicine"	4,875.00
5	McLean, MS, MA	Niagara Falls Memorial Medical Center	Family Medicine Residency	"Stethoscope Upgrade Facilitation Cardiologists Referrals"	1,692.00
6	Morgan, DO	St. Elizabeth Boardman	Emergency Medicine	"The Effectiveness of Analgesia in the Elderly After Fracture in the Emergency Department and the Impact of Type of Analgesia and Time-To-Administration"	100.00
7	Peppers, DO, PhD	University Hospitals Regional Hospitals Campus at Richmond	Allergy and Immunology	"Thermal Imaging of Inflammatory Processes for Use in Determining Biphasic and Uniphase Anaphylactic Peanut Allergic Murine Models"	5,000.00
8	Romanello, DO	University Hospitals St. John Medical Center	Emergency Medicine	"Use of Epinephrine for Anaphylaxis in a Large Hospital System"	4,500.00
9	Silvis, DO	Conemaugh Health System	General Surgery Residency	"The effect of intravenous versus enteral acetaminophen on opioid usage for isolated hip fractures in the geriatric population"	5,000.00
10	Speelman, PhD	LECOM	Research	"Assessment of Parametrial Fat Structure and Function as a Function of Estrous Phase in Female Rats"	5,000.00
11	Thimmapuram, MD	York Hospital (Wellspan Health)	Internal Medicine	"Impact of Meditation on Sleep in Residents During Outpatient Rotation"	5,000.00
12	Turgeon, DO	Arnot Ogden Medical Center	Geriatrics	"Association Between Jefferson Empathy Score and Chosen Specialty Among Residents"	2,700.00
13	Tynski, MD, FCAP	Clarion Hospital	Pathology	"Three Publications of the Following Case Reports: Inguinal PEComa Metastatic to the Orbit and Brain; Primary Peritoneal Angiosarcoma Metastatic to the Liver; Primary Pleomorphic Hyalinizing Angiectatic Tumor in Gluteal Region: A Potential Pitfall"	3,276.00
14	Ward, DO	LECOM/MCH	Orthopedic Surgery Residency	"Distal Femoral Cut Divergence with Cutting Saw Held at Variable Angles"	2,250.00
15	Watkins, DO, MS	MCH	Orthopedic Surgery Residency	"A New Look at the Digital Tourniquet: Minimal Occlusive Pressurs Utilizing a Novel Design and Technique"	909.00
16	Wentz, MD	Conemaugh Health System	Family Medicine	"Benefits of a Resident-led School Health Education Program"	500.00
17				Total:	70,888.26

2018 – 2019 LECOM/LECOMT Seed Grants

Grant #	Primary Investigator	Additional Investigator	Institution	Research Title
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	Carmine 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	Avinaj John,	Manatee Memorial Hospital,	"Implementing solid organ printing into clinical practice for

	Friedman, MD	DO, MA	Cardiovascular	better size selection and placement of WATCHMAN devices in patients with Atrial Fibrillation"
J2018.38	Derek Hayden, DO	Richard Trevino, MD	Wellspring 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"
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"

LECOM Intramural Seed grants 2017-18

Name	School	Project type	Project name	Amount requested	Awarded amount
McKay, Diane	COM	General Basic Science	Integration of Virtual Reality in Mindfulness Meditation for the Attenuation of Stress in Student Populations	\$19,875.00	Not funded
Critz, Stuart	COM	General Basic Science	Design of Small Molecule inhibitors of PCSK9 to Reduce LDL-c Levels	\$5,998.80	\$5,998.80
Quinn, Thomas	COM	Osteopathic Manipulative Medicine	Effect of osteopathic manipulative treatments on pulmonary function of chronic asthmatic patients in comparison to standard pulmonary rehabilitation techniques	\$7,200.00	\$7,200
Davis, Shannon	COM	Health Professions Education	Discerning the Outcomes of Self-Administered Reiki in the Relief of School Related Stress Among Medical Students of Lake Erie College of Osteopathic Medicine	\$3,564.85	Not funded
Davis, Shannon	COM	General Basic Science	Determining the Taxonomic Variation of Gut Microbiota Populations Comparing those Associated with Westernized Diet Consumption and Host Stress	\$16,546.14	\$16,546.14
Allen, Erika	COM	Health Professions Education	Critical Thinking Skill Assessment and Development Through Post-Baccalaureate Medical Education	\$5,707.50	\$5,707.50
Falk, Karl	COM	Osteopathic Manipulative Medicine	The effects of cranial manipulation and its parallels with acupuncture	\$20,000.00	\$20,000
Simpson, Donald	COM	Health Professions Education	An Interprofessional Student-Led Pilot Project to Assess Mental Health and Wellness of Students Enrolled in Professional Programs at LECOM	\$7,836.00	Not funded
Gnarra, James	COM	Health Professions Education	LECOM GenOMeS program: molecular diagnostic education and training for OMS students	\$18,770.00	\$18,770
Gnarra, James	COM	General Basic Science	Prolyl isomerases as therapeutic targets for infection and cancer	\$11,200.00	\$11,200
Dalvi, Prasad	SDM	General Basic Science	Adipokine chemerin-induced inflammatory response and modulation of insulin sensitivity in the hypothalamic neurons	\$19,500.00	Not funded
Raja, Dewan	SDM	Health Professions Education	Participatory Action Research to Develop Dental Health Education Booklets for Elementary School Children	\$20,000.00	Not funded
Dalvi, Prasad	SDM	General Basic Science	Tea Time - A Possible Preventive Strategy for Oral Health	\$18,500.00	15,500.00
Zmiywsky, Mark	SDM	Health Professions Education	Testing the Integrity of Nitrile Examination Gloves After Use in a Dental School Clinic	\$5,250.00	4,450.00
Yoon, Thomas and Dihn, Katie	SDM	General Basic Science	The intervention of endo sealer in combination with curcumin produces a long term release of anti-bacterial activity against E. faecalis, which results in a better prognosis for root canal treated teeth than endo sealer alone	\$6,729.20	\$6,729.20
Brown, Julie	SDM	General Basic Science	Periodontitis and Inflammation: analysis of cytokines	\$20,000.00	\$20,000.00
Coffman, Jonathan	SDM	General Basic Science	Isolation and Characterization of Enterococci from Avian Excreta that bind to a Streptococcus mutans sucrose-induced Dextran Biofilm	\$19,457.63	10,457.63

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
	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.

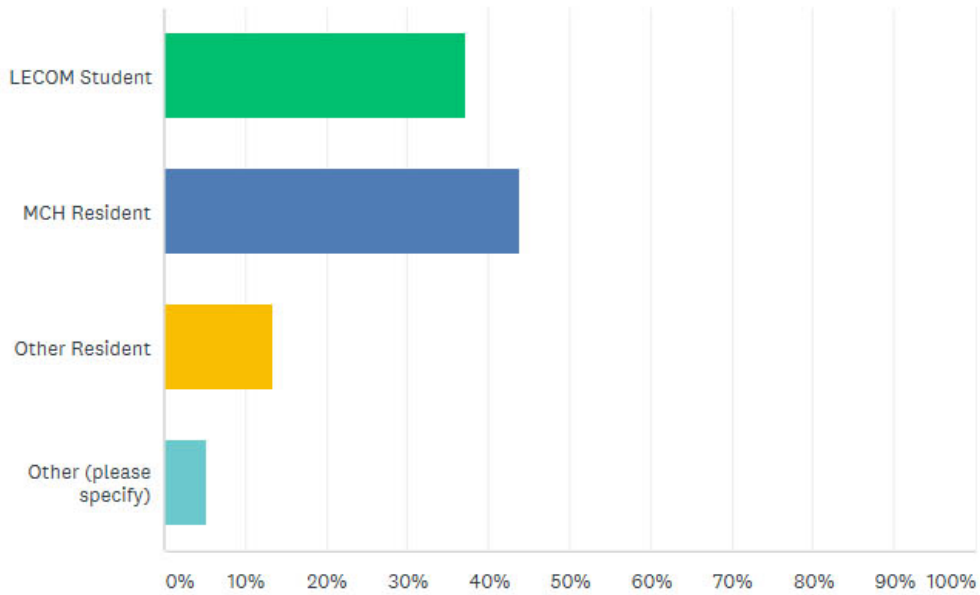
Miscellaneous Research Activity

- Dr Razzaque had a seminar presentation at Recent Advances in Food Fortification with Emphasis on Vitamin D Deficiency in Human Health. September 15-16, New Delhi, India, and a seminar presentation at 7th International Conference on Vitamin D Deficiency, Nutrition & Human Health. January 25-26, 2018, Abu Dhabi, U.A.E. Also a biomedical seminar presentation at University of Waterloo, Canada; Title: Endocrine regulation of phosphate homeostasis; September 29, 2017.
- Dr Razzaque has reviewed manuscripts for • Nature Review Endocrinology • Histochemistry Cell Biology • Journal of Steroid Biochemistry & Molecular Biology, • Evidence-Based Complementary & Alternative Medicine • Journal of Nutrition & Metabolism • Aging Cell • Nutrients • Dentistry Journal.
- Research meetings were held on the 1st Wednesday of the month.
- New Research Faculty - Dr. Ping He has started setting up his research on phosphate toxicity on cell lines, western blot scanner in the lab is set up
- Mark A.W. Andrews, Ph.D., FNAOME: Associate Editor for Medical Science Educator (of IAMSE), and for J. Orthopedic Clinical Studies and Advanced Research.
- Dr. Steven F Habusta serves as an Editorial Board member for the Physiotherapy Open Access Journal (PTOJ)

Interprofessional Research Day Submissions

Affiliation

Answered: 75 Skipped: 0



ANSWER CHOICES	RESPONSES	
LECOM Student	37.33%	28
MCH Resident	44.00%	33
Other Resident	13.33%	10
Other (please specify)	Responses 5.33%	4
TOTAL		75

LECOM INTERPROFESSIONAL

RESEARCH DAY 2018 PRIZES

2ND OF NOVEMBER, 2018

STUDENT PRESENTATIONS



LECTURE SESSION

1st Prize (\$500): Robert Waters

The Effect of Cinnamaldehyde Ointment on Prevention and Treatment of Staphylococcus aureus and Pseudomonas aeruginosa.

Robert Waters, Daniel L. Austin, Nancy Carty, Christopher C. Keller

2nd Prize (\$250): Yusra Mansour

Auditory Midbrain Hypoplasia and Dysmorphology after Prenatal Valproic Acid Exposure.

Yusra Mansour, Sarah Mangold, Devon Chosky, Randy J Kulesza Jr.

3rd Prize (\$100): Haley Prough

Comparison of the Force Required for Dislodgement Between Secured and Unsecured Airways. Curtis Davenport, Christian Martin-Gill, Henry E. Wang, James Mayrose, Justin N. Carlson, Haley Prough.

POSTER SESSION

1st Prize (\$500): Robert Waters

The Effect of Potential Confounding Variables on the Detection of Borrelia burgdorferi in Ixodes scapularis Ticks.

Robert Waters, Nancy Carty, Christopher Keller

2nd Prize (\$250): Auryaa DeChick

Skeletal Muscle Abnormalities in a Prenatally Androgenized Rat Model for PCOS.

Auryaa DeChick, Mary Petro, Jack Lee, Diana Spielman

3rd Prize (\$100): Ryan Zimmerman

Repeated Prenatal Exposure to Valproic Acid Disrupts Ascending Projections to the Central Nucleus of the Inferior Colliculus. Ryan Zimmerman, Randy Kulesza Jr.

LECOM INTERPROFESSIONAL

RESEARCH DAY 2018 PRIZES

2ND OF NOVEMBER, 2018

RESIDENT PHYSICIAN PRESENTATIONS



LECTURE SESSION

1st Prize (\$500): Lidianny Polanco

Thyroid Storm Due to Abuse of Exogenous T3 and T4 for Weight Loss
Lidianny Polanco, Timothy C. Howland, Gurdeep Singh

2nd Prize (\$250): Mohamed Saad Eldin

Necrotizing fasciitis and Spinal epidural abscess unusual presentation
Mohamed Saad Eldin, Ahmed Khalil, Naidu Latasha

3rd Prize (\$100): Ahmed Khalil

An Unusual Presentation of Primary Aortic Mural Thrombus.
Ahmed Khalil, Mohamed Saad Eldin

POSTER SESSION

1st Prize (\$500): Jonathan Callegari

A Retrospective Analysis of Upper Extremity Injuries Sustained in Pediatric Soccer Players.
Jonathan Callegari, Matthew Caid, Jae Chang, Kevin Little

2nd Prize (\$250): David Wilhelm

A Case of Traumatic Splenic Laceration in a Division II Football Player: Advisable Versus Safe to Player Considerations. James Cornwell, David Wilhelm, Patrick Leary

3rd Prize (\$100): Patrick Fessler

Total Joint Arthroplasty in a Third World Country: A Honduran Experience. Patrick Fessler, Stephen Sweeney, Patrick Laird, Peter Daily.
Research Day