Research Report

LECOM

2017

PREPARED BY:

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

1. Felix Lam, PharmD, Marcus Kaplan, PharmD, Nicholas Gazda, PharmD, Megan Shah, PharmD, John Toler, PharmD, Kelly Scolaro, PharmD. Assessing Medication Pick-Up Rates at a Student-Run Free Health Clinic. Journal of Student-Run Clinics 3 15 10/3/2017


33. Smith, Lindsey PharmD; Samai, Kathryn PharmD, BCPS; Peshek, Stephanie PharmD, FASHP; Kimbrell, Brian MD, FACS. Impact of Pharmacy Students on a Level II Trauma Center. Journal of Trauma Nursing: July/August 2017 - Volume 24 - Issue 4 - p 231–235


35. **Jonathan Callegary DO.** A retrospective analysis of the possible cardiac complications associated with the use of tranexamic acid on patients who have underlying cardiac disease and have undergone total joint replacement. Journal of POMA, December issue, pp13-16.


The link to watch the PBS documentary is: http://www.wedu.org/thefemininetouch/

PBS Documentary, based on Dr. Quinn’s book, is the first and only documentary ever produced about the osteopathic medical profession.

Accepted Articles

- **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.


- Elizabeth Harrington, **Kristen Gawronski** An Advanced Pharmacy Practice Experience in Academia: More Benefit than Burden! Currents in Pharmacy Teaching and Learning.


Submitted Articles

- 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.

- **Patrick Leary DO, Mark Kauffman DO**. Comparing Vitamin D3 Levels of our LECOM students from Erie, Pennsylvania and Bradenton, Florida. JAOA.


- Dr. Habusta has two submissions to peer reviewed journals

- 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. JAOA7/13/2016

- **Patricio Bruno, DO**. Alignment of Graduate Medical Education Accreditation- what about the details? Academic Medicine.


- **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.


- Dexter Jordan Witchey, Nichole Brianne Witchey, Michele Marie Roth-Kauffman, Mark Kevin Kauffman. Plantar Warts: Highlighting the Relationship Between Epidemiology, Pathophysiology, and Adequate Clinical Management. JAOA.


• Kulesza R. Repeated prenatal exposure to valproic acid results in auditory brainstem hypoplasia and reduced expression of calcium binding proteins. Neuroscience.

• Kulesza R. Identification of an aberrant testicular vein draining the right kidney. International Journal of Anatomical Variation

• Kulesza R. Structural and functional aberrations of the auditory brainstem in ASD. JAOA

• Kulesza R. Alzheimer disease is evolving in Metropolitan Mexico City children and young adults: early onset of a brainstem tauopathy. Environmental Research


Somatic growth is a crucial component in the development of an organism. Growth is manifested at many levels during an organism’s lifespan: rapid intrauterine growth is followed by extrauterine development that subsides with age. The control of growth is exerted via particularly complex and multifaceted mechanisms that affect every cell of the body, regulating the balance between the anabolic and catabolic processes, and it is intimately intertwined with almost every physiological function. The central component of this regulatory system is the hypothalamic-hypophyseal axis that controls not only all of the endocrine organs of the body, but also regulates the growth of every cell via growth hormone release.

Author: Bertalan Dudás MD, PhD
NOVA Science Publishers, ISBN:
Available at Barnes & Noble, Amazon.com, Google books, etc.

Chapter 1 The Somatotropic Axis
Chapter 2 Catecholamines
Chapter 3 Neuropeptide Y (NPY)
Chapter 4 Galanin
Chapter 5 Opioid Peptides
Chapter 6 Substance P
Chapter 7 Thyrotropic axis
Chapter 8 Corticotropic Axis
Chapter 9 Oxytocin and Vasopressin
Chapter 10 Other Neurotransmitters and Neuromodulators
Editors: K. L. Mittal, F. M. Etzler
Publisher: Wiley
Pages: 432
Format: hardback
Publication Date: 2017
ISBN: 1119323509


• BOOKLET: Quinn, T. A., Cocozza, V., Lang, D., Ramchander, N.: “Osteopathic Manipulative Techniques as taught at the American School of Osteopathy, 1893 - 1895”, 40 pages, May 2017

• Kelly Scolaro. Chapter 11: Disorders Related to Cold and Allergy. 19th. 2018 APhA. Accepted Book Chapter.


ABSTRACTS


11. Alice Hudder, PhD, Kim Moscatello, PhD, Sean Tackett, MD Investigating Adoption of a New Technology in Medical Education Association of Professors of Human and Medical Genetics Clearwater, FL 5/9/2017

12. Tracey Weil, Alice Hudder, Brian Hill, Shoumita Dasgupta, Everett Roark, Jon Bernstein, Mahendran Mahadevan, Mariluz Henshaw, Andrew Sobering Hereditary Breast and Ovarian Cancer Online Interactive Case Module Association of Professors of Human and Medical Genetics Clearwater FL 5/9/2017


18. Dilello TF, Shah AB, and Speelman DL. Altered lipid storage and adiponectin expression in 3T3 adipocytes exposed to androstenedione at levels comparable to those in women with PCOS. 2017 Endocrine Society Annual Meeting, April 1, 2017 in Orlando, FL.


27. Thanhphuong N. Dinh DMD; Mathew J. Bateman PhD., DHEd. Integration of Clinical Rotation to an Interprofessional Education Curriculum for Dental, Medical and Pharmacy Students. 2017 Association for Dental Education in Europe / American Dental Education Association Joint Meeting – London, England (May 2017).


29. Jonathan Coffman PhD., MBA; Robert Reid; Amber Dubiel; Eric Ho DMD; Thomas YH. Yoon DDS, MS. Isolation and Genomic Sequencing of a Drug Resistant Enterococci from Avian Excreta. 2017 American Society of Microbiology Florida Branch Meeting – Clearwater, FL (October 2017).

30. Thomas YH. Yoon DDS, MS; Alexander G. Ahmadi; Nathaniel Saed; Nathan E. Estrin; Don E. Milner DDS. Cone beam CT Analysis of Accessory Mental Foramen Occurrence. 2017 American Society of Microbiology Florida Branch Meeting – Clearwater, FL (October 2017).


Workshops

## GRANTS

### 2017 – 2018 LECOMT Grants

<table>
<thead>
<tr>
<th>Investigator(s)</th>
<th>Institution</th>
<th>Program</th>
<th>Research Title</th>
<th>Amount Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kulesza, PhD</td>
<td>LCOM</td>
<td>Pre-Clinical</td>
<td>&quot;The Impact of Maternal Inflammatory Responses on Structure and Function of the Cerebellum&quot;</td>
<td>4,874.40</td>
</tr>
<tr>
<td>Leininger, DO</td>
<td>MCH</td>
<td>Orthopedic Surgery Residency</td>
<td>&quot;Cadaveric Study of Barbed Suture Achilles Tendon Repair&quot;</td>
<td>2,020.00</td>
</tr>
<tr>
<td>Macabobby, MD, FAAFP</td>
<td>St. Elizabeth Boardman</td>
<td>Family Medicine Residency</td>
<td>&quot;Facilitating Formal Transitions of Care Through the Use of Multimedia Equipment&quot;</td>
<td>2,001.86</td>
</tr>
<tr>
<td>McCarthy, DO</td>
<td>Allegheny Health Network-St. Vincent Health Center</td>
<td>Emergency Medicine</td>
<td>&quot;Improving Resident Understanding of Evidence Based Medicine&quot;</td>
<td>4,875.00</td>
</tr>
<tr>
<td>McLean, MS, MA</td>
<td>Niagara Falls Memorial Medical Center</td>
<td>Family Medicine Residency</td>
<td>&quot;Stethoscope Upgrade Facilitation Cardiologists Referrals&quot;</td>
<td>1,692.00</td>
</tr>
<tr>
<td>Morgan, DO</td>
<td>St. Elizabeth Boardman</td>
<td>Emergency Medicine</td>
<td>&quot;The Effectiveness of Analgesia in the Elderly After Fracture in the Emergency Department and the Impact of Type of Analgesia and Time-To-Administration&quot;</td>
<td>100.00</td>
</tr>
<tr>
<td>Peppers, DO, PhD</td>
<td>University Hospitals Regional Hospitals Campus at Richmond</td>
<td>Allergy and Immunology</td>
<td>&quot;Thermal Imaging of Inflammatory Processes for Use in Determining Biphasic and Uniphasic Anaphylactic Peanut Allergic Murine Models&quot;</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Romanello, DO</td>
<td>University Hospitals St. John Medical Center</td>
<td>Emergency Medicine</td>
<td>&quot;Use of Epinephrine for Anaphylaxis in a Large Hospital System&quot;</td>
<td>4,500.00</td>
</tr>
<tr>
<td>Silvis, DO</td>
<td>Conemaugh Health System</td>
<td>General Surgery Residency</td>
<td>&quot;The effect of intravenous versus enteral acetaminophen on opioid usage for isolated hip fractures in the geriatric population&quot;</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Speelman, PhD</td>
<td>LCOM</td>
<td>Research</td>
<td>&quot;Assessment of Parametrial Fat Structure and Function as a Function of Estrous Phase in Female Rats&quot;</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Thimmapuram, MD</td>
<td>York Hospital (Wellspan Health)</td>
<td>Internal Medicine</td>
<td>&quot;Impact of Meditation on Sleep in Residents During Outpatient Rotation&quot;</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Turgeon, DO</td>
<td>Arnot Ogden Medical Center</td>
<td>Geriatrics</td>
<td>&quot;Association Between Jefferson Empathy Score and Chosen Specialty Among Residents&quot;</td>
<td>2,700.00</td>
</tr>
<tr>
<td>Tynski, MD, FCAP</td>
<td>Clarion Hospital</td>
<td>Pathology</td>
<td>&quot;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&quot;</td>
<td>3,276.00</td>
</tr>
<tr>
<td>Ward, DO</td>
<td>LECOM/MCH</td>
<td>Orthopedic Surgery Residency</td>
<td>&quot;Distal Femoral Cut Divergence with Cutting Saw Held at Variable Angles&quot;</td>
<td>2,250.00</td>
</tr>
<tr>
<td>Watkins, DO, MS</td>
<td>MCH</td>
<td>Orthopedic Surgery Residency</td>
<td>&quot;A New Look at the Digital Tourniquet: Minimal Occlusive Pressurs Utilizing a Novel Design and Technique&quot;</td>
<td>909.00</td>
</tr>
<tr>
<td>Wentz, MD</td>
<td>Conemaugh Health System</td>
<td>Family Medicine</td>
<td>&quot;Benefits of a Resident-led School Health Education Program&quot;</td>
<td>500.00</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>70,888.26</td>
</tr>
<tr>
<td>Name</td>
<td>School</td>
<td>Project type</td>
<td>Project name</td>
<td>Amount requested</td>
</tr>
<tr>
<td>---------------------</td>
<td>---------</td>
<td>--------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>McKay, Diane</td>
<td>COM</td>
<td>General Basic Science</td>
<td>Integration of Virtual Reality in Mindfulness Meditation for the Attenuation of Stress in Student Populations</td>
<td>$19,875.00</td>
</tr>
<tr>
<td>Critz, Stuart</td>
<td>COM</td>
<td>General Basic Science</td>
<td>Design of Small Molecule inhibitors of PCSK9 to Reduce LDL-c Levels</td>
<td>$5,998.80</td>
</tr>
<tr>
<td>Quinn, Thomas</td>
<td>COM</td>
<td>Osteopathic Manipulative Medicine</td>
<td>Effect of osteopathic manipulative treatments on pulmonary function of chronic asthmatic patients in comparison to standard pulmonary rehabilitation techniques</td>
<td>$7,200.00</td>
</tr>
<tr>
<td>Davis, Shannon</td>
<td>COM</td>
<td>Health Professions Education</td>
<td>Discerning the Outcomes of Self-Administered Reiki in the Relief of School Related Stress Among Medical Students of Lake Erie College of Osteopathic Medicine</td>
<td>$3,564.85</td>
</tr>
<tr>
<td>Davis, Shannon</td>
<td>COM</td>
<td>General Basic Science</td>
<td>Determining the Taxonomic Variation of Gut Microbiota Populations Comparing those Associated with Westernized Diet Consumption and Host Stress</td>
<td></td>
</tr>
<tr>
<td>Allen, Erika</td>
<td>COM</td>
<td>Health Professions Education</td>
<td>Critical Thinking Skill Assessment and Development Through Post-Baccalaureate Medical Education</td>
<td>$5,707.50</td>
</tr>
<tr>
<td>Falk, Karl</td>
<td>COM</td>
<td>Osteopathic Manipulative Medicine</td>
<td>The effects of cranial manipulation and its parallels with acupuncture</td>
<td>$20,000.00</td>
</tr>
<tr>
<td>Simpson, Donald</td>
<td>COM</td>
<td>Health Professions Education</td>
<td>An Interprofessional Student-Led Pilot Project to Assess Mental Health and Wellness of Students Enrolled in Professional Programs at LECOM</td>
<td>$7,836.00</td>
</tr>
<tr>
<td>Gnarra, James</td>
<td>COM</td>
<td>Health Professions Education</td>
<td>LECOM GenOMeS program: molecular diagnostic education and training for OMS students</td>
<td>$18,770.00</td>
</tr>
<tr>
<td>Gnarra, James</td>
<td>COM</td>
<td>General Basic Science</td>
<td>Prolyl isomerases as therapeutic targets for infection and cancer</td>
<td>$11,200.00</td>
</tr>
<tr>
<td>Dalvi, Prasad</td>
<td>SDM</td>
<td>General Basic Science</td>
<td>Adipokine chemerin-induced inflammatory response and modulation of insulin sensitivity in the hypothalamic neurons</td>
<td>$19,500.00</td>
</tr>
<tr>
<td>Raja, Dewan</td>
<td>SDM</td>
<td>Health Professions Education</td>
<td>Participatory Action Research to Develop Dental Health Education Booklets for Elementary School Children</td>
<td>$20,000.00</td>
</tr>
<tr>
<td>Dalvi, Prasad</td>
<td>SDM</td>
<td>General Basic Science</td>
<td>Tea Time - A Possible Preventive Strategy for Oral Health</td>
<td>$18,500.00</td>
</tr>
<tr>
<td>Zmiyiwsky, Mark</td>
<td>SDM</td>
<td>Health Professions Education</td>
<td>Testing the Integrity of Nitrile Examination Gloves After Use in a Dental School Clinic</td>
<td>$5,250.00</td>
</tr>
</tbody>
</table>
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.

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 2016-17

| Name                           | School | Project type                     | Project name                                                                 | Amount requested | Awarded amount |
|--------------------------------|--------|----------------------------------|-------------------------------------------------------------------------------|------------------|----------------|----------------|
| Yoon, Thomas                   | SDM    | General Basic Sciences           | Nonpolar Solvents Inhibit Biofilm Formation and Growth of the Oral Microbe Streptococcus Mutans (YOON 1) | $9,160.00        | $9,160.00      |
| Yoon, Thomas                   | SDM    | General Basic Sciences           | Quantitative Analysis of Dental Implants: A Comparative Study (YOON 2)          | $19,000.00       | $19,000.00     |
| Yoon, Thomas                   | SDM    | General Basic Sciences           | Analysis of CBCT Images for Virtual Implant Placement to Eliminate Violation of the Incisive Canal (YOON 3) | $10,000.00       | $10,000.00     |
| Yoon, Thomas and Coffman, Jonathan | SDM    | General Basic Sciences           | Efficacy of Antibiotic Therapy in Combination with Essential Oils Against Aggregatibacter Actinomyctecomitans and Tannerea Forsythensis | $12,637.45       | $12,637.45     |
| Romer, Mark and Primus, Carolyn | SDM    | General Basic Sciences           | Dental Materials Research                                                     | $15,555.00       | $15,500.00     |
| Dr. Almada                     | SDM    | ?                                | ?                                                                            | ?                | ?              |
| Lee, Jack                      | COM    | Neuro-Musculoskeletal            | Examining the Cellular Mechanisms that Cause Cardiac and Smooth Muscle Hypertrophy to Explore Their Potential Role in the Treatment of Sarcopenia and Skeletal Muscle Atrophy | $11,025.00       | $11,025.00     |
| Kulesza, Randy                 | COM    | General Basic Sciences           | Auditory Brainstem Connectivity in an Animal Model of Autism Spectrum Disorder | $13,302.84       | $13,302.84     |
| Hudder, Alice and Moscatello, Kim | COM    | Health Professions Education     | Osmosis in Medical Education: Enhanced Outcomes Through Social Learning       | $20,000.00       | $20,000.00     |
| Scully, Kyle                   | COM    | General Basic Sciences           | Natural Product Isolation and Characterization: An Examination of Natural Products Isolated from Grapes Grown and Processed in Lake Erie Wine Country | $17,500.00       | $17,500.00     |
Other Miscellaneous Intramural funding

- Ningning Yang. The Application of Virtual Labs in the Pharmaceutical Compounding Curricula. LECOM 1 year grant, 2017. Funded, $4,800.00
- **McCarthy S.** Morphological Differences of Metatarsal and Metacarpal Bones. LECOM, March 13, 2012- March 13, 2013. Funded, $3,000.00.
- **Terrell M.** Travel Grant for American Association of Anatomists, April 2011. Funded, $1,500.
- **Saleh A.** Characterization the mechanisms of action of a novel cytotoxic nucleoside analogue and evaluation of its anti-tumor activity against leukemia cells from UAE patients. LECOM intramural grant, 2010. Funded, $5,000.
- **Do D.** Histone deacetylase inhibitors for cancer epigenetic therapy. LECOM Intramural Grant, 2010. Funded, $6,000.
- **Devi S.** Serotherapy in acute liver failure. LECOM Intramural Grant, 2010. Funded, $7,500.
Submitted Extramural Grants

- **Alice Hudder, Ph. D.** Evaluation of Osmosis™ in Medical Education: A Model System for Evaluation of the Effectiveness of Board Preparation Programs Kim Moscatello, Ph. D LECOM Mark Speicher, Ph. D. AZCOM AACOM 7/1/2017-12/31/2018 10000.00 2/9/2017

- **Shannon Davis, PhD.** Discerning the Outcomes of Self-Administered Reiki in the Relief of School Related Stress Among Medical Students of Lake Erie College of Osteopathic Medicine NA The American Association of Colleges of Osteopathic Medicine (AACOM) 2017-2018 5000.00 2/14/2017


- Submission Title: LEAP: LECOM Center of Excellence for Multicultural Advancement in Pharmacy. PI: Tatiana Yero. Granting Agency: HRSA. Opportunity Number: HRSA-17-065. Project Period: 07/01/17 - 06/30/22 (5 years). Amount Requested: $2,304,932.21

- Kristen Gawronski Cardiovascular Disease Management Project Hershey Bell Erie Community Foundation 3 years 200000.00 4/28/2017

- **Evidence-Based Falls Prevention Programs Financed Solely by 2017 Prevention and Health Funds (PPHF-2017).** LECOM HHS-2017-ACL-AOA-FPSG-0206-Titzel.

- **James Gnarra, Ph. D.** Effects of prolyl isomerization on VHL protein activity. VHL Alliance 10/1/2017-09/30/2018 $24,986.23. Submitted

Funded Extramural Grants


• Keller CC, Allen EN, and Scully KR. Sequential Drawing Tasks to Improve Understanding and Retention of Pharmacological Concepts. AACOM, 2017. Submitted, not funded, $5,000.

• Davis SC. Elucidating the Outcome of Self-administered Reiki in the Relief of School-Related Stress Among Medical Students. AACOM, 2017. Submitted, not funded, $5,000.

• Kristen Gawronski, Victoria Reinhartz RxLEADS Hershey Bell LECOM Intramural Grant 1 year 3100.00 2/9/2017

• Kristen Gawronski. Pharmacist-Provided MTM Services in the Community Hershey Bell. Erie Community Foundation 18 months 100000.00 9/28/2017

• Ningning Yang The Application of Virtual Labs in the Pharmaceutical Compounding Curricula N/A LECOM 1 year 4800.00 2/13/2017

• Thomas YH Yoon DDS, MS The Significance of Environment Effects on Dental Implants for Forensic Science Victim Identification Barry Lipton DMD Evan Black Stephanie Vazana Alexander Ahmdai American Society of Forensic Odontologists 2-2017 to 2-2018 3000.00 2/13/2017

• Thomas YH Yoon DDS, MS Non polar Solvents Inhibit Biofilm Formation and Growth of the Oral Microbe Streptococcus Mutans Mark P. Zmiyiwsky DMD Austin Belknap James Gnarra PhD LECOM IPAAR 6-2016 to 6-2017 9160.00 2/13/2017

• Thomas YH Yoon DDS, MS Quantitative Analysis of Dental Implants: A Comparative Study Samantha Hirt Anur Shah Aakash Mehandru Barry Lipton DMD LECOM IPAAR 6-1-2016 to 6-30-2017 19000.00 2/13/2017

• Thomas YH Yoon DDS, MS Jonathan Coffman PhD, MBA Efficacy of Antibiotic Therapy in Combination with Essential Oils Against Aggregatibacter Actinomycetemcomitans and Tannerlla Forsythenis Eric Ho Robert Reid LECOM IPAAR 7-1-2016 to 6-30.2017 12637.45 2/13/2017

• Thomas YH Yoon DDS, MS Analysis of CBCT Images for Virtual Implant Placement to Eliminate Violation of the Incisive Canal Aakash Mehandru Ankur Shah Samantha Hirt LECOM IPAAR 7.1.2016 to 6.30.2017 10000.00 2/13/2017

OTHER MISCELLANEOUS RESEARCH ACTIVITIES

• West Research Center:
  o Research equipment has been moved from storage
  o Unusable/broken equipment has been discarded
  o We are at the process to move equipment from the Cappabianca Research Facility
  o Laboratory stools and chairs were ordered
  o Final version of safety rules and regulations are being prepared
  o The card reader is being programmed
  o Morphological studies have been started with collaboration of Drs. Dudas and Corso
• 2017 Research Budget has been prepared and approved by Dr Silvia and it was sent to Dick Olinger
• 2016 Research/Scholarship Report is finished and posted on the portal. Responses were integrated into the final document.
• 2016 NSF Higher Education Research Survey has been submitted
• Kristen Gawronski attended the American Society of Health-System Pharmacists Midyear Clinical Meeting 2017 and reviewed 4 Continuing Education/Board Certification training modules for American College of Clinical Pharmacy.
• Dr. Speelman has been promoted as the Director of Research of the Medical School.
• Dr. Gnarra has been promoted as the Director of Research of the Medical School, Bradenton.
• Dr. Corso has been promoted as the Director of Research of the Pharmacy School.
• Dr Alice Hudder and Dr. Bojana Stevich organized a Genomics in Medicine Continuing Medical Education Workshop in March 29 and April 5, 2017 at Millcreek Community Hospital Education Center. Associated Research Project Hypothesis: By learning and interacting in an interprofessional setting, attendees at the event will be able to grow in confidence and understanding of precision medicine and develop skills in collaborating their efforts to provide better patient-centered precision medicine. Educational research project that consists of a pre-intervention survey, an intervention, then a post-intervention survey will be implemented.
• 2nd place Graduate Oral Presentation at the Erie Regional Science Consortium 13th Annual Research Symposium: Repeated prenatal VPA exposure results in marked deficits in development of sensory systems and the Superior Olivary Complex. Ryan S. Zimmerman, Randy Kulesza.
LECOM-Erie Research Council Meeting has been regularly held each month

**Information was posted on the Portal:**
- Annual Research Reports
- IRB/IACUC forms, manuals
- Research Yearbooks/faculty’s research activity
- Grants/funding (LECOM Grants 2010-17)
- LECOM Publications 2010-17
- Research Day
  - Erie Interprofessional Research day abstracts/prizes from 2008
  - Bradenton Interprofessional Research day abstracts/Schedule 2016-17
  - LECOM Health Orthopedic Research Day

**LECOM Research Day has been organized (SEE NEXT PAGES AND THE ABSTRACT BOOKLET)**
- Over 80 abstract submissions
- 15 oral presentations
- IPE Live Panel Discussion has been planned by Dr. Terrell
- Keynote speaker Irina Sorokulova’s talk: “Gut and Health: Lessons From the Microbiota”
LECOM INTERPROFESSIONAL RESEARCH DAY

2017

19TH OF OCTOBER, 2017

STUDENT PRESENTATIONS

PRIZES

LECTURE SESSION

1st Prize ($500): Ryan S. Zimmerman
Repeated prenatal VPA exposure results in marked deficits in development of sensory systems and the Superior Olivary Complex. Ryan S. Zimmerman* and Randy Kulesza

2nd Prize ($250): Ami B. Shah
Elevated androstenedione in young adult but not pubertal prenatally androgenized rats. Ami B. Shah*, Diana L. Speelman and Issac Nivar

3rd Prize ($100): Cody R. Kilar

POSTER SESSION

1st Prize ($500): Scott Schmalzried
The Effect of Essential Cinnamon Oils and Cinnamaldehyde on Growth Inhibition of Pseudomonas aeruginosa and Staphylococcus aureus
Scott Schmalzried*, Nancy Carty, Christopher C. Keller.

2nd Prize ($250): Philip Femano, OMS-IV
A rare case of severe idiopathic Guyon canal syndrome treated with a Guyon canal decompression and supercharged end-to-side anterior interosseus to ulnar nerve transfer
Philip Femano and Michael Rivlin.

3rd Prize ($100): Vishesha Patel
Regular yoga improves hormone health in women with polycystic ovary syndrome
Davis SE, Patel V, Bouwer S, Menezes C, Menezes H, Hendryx J, Smith CA, Speelman DL, and Ducato K
LECTURE SESSION

1st Prize ($500): Gennaro Romanello

2nd Prize ($250): Steven Ward
The Use and Effectiveness of Texting in Healthcare: A Survey of Medical Professionals. Steven Ward*

3rd Prize ($100): Andrew J. Chin

POSTER SESSION

1st Prize ($500): Bhavesh Joshi
Osteochondritis Dissecans in the NBA
Bhavesh Joshi, Michael Knoll and Patrick Leary

2nd Prize ($250): Matthew L. Hintz
Kirschner Wire Utilization as Flexible Intramedullary Construct for Management of Metacarpal Shaft Fracture
Matthew L. Hintz

3rd Prize ($100): Kevin A. Hough
Lake erie college of osteopathic medicine senior living center urinalysis protocol study using the McGeer criteria
Kevin A. Hough, Nicholas Podhorniak and Brandon Intrieri