9th Annual Science Research Symposium

Friday, May 30, 2014
Noon–2 p.m.
University Quad
(in front of Building 8)

http://web.sci.csupomona.edu/students/research_symposium/

Sponsored by:
Louis Stokes Alliance for Minority Participation (LSAMP)
College of Science, Cal Poly Pomona

Visit the Science Research Symposium web site for full abstracts of the presentations. Presenters’ names are underlined in the list of research presentations.
The Effect of High Calorie Meals on c-FOS Activation in Dopamine Receptor Knockout Mice
Antonio Aguayo\(^1\) Natalie Garcia\(^1\) Dr. Andrew Steele\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona

THE PROGRESSION OF POTASSIUM CHANNEL DEFECTS IN HUNTINGTON’S DISEASE SKELETAL MUSCLE
Michelle Mendizabal\(^1\) Monica Wong\(^1\) Daniel R. Miranda\(^1\) Dr. Andrew Voss\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona

EFFECTS OF RACTOPAMINE SUPPLEMENTATION ON MUSCLE ACCRETION IN PIG SKELETAL MUSCLE
Diego Jaime Lanuza\(^1\) Dr. Robert Talmadge\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona

REVISED ION/SUBSTRATE COUPLING STOICHIOMETRY OF GABA TRANSPORTERS
Samantha L. Willford\(^1\) Cynthia M. Anderson Sanchez\(^1\) Dr. Sepehr Eskandari\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona

Cellular activation of monocytes and astroglial cells following ambient air particulate matter exposure
Erick Antonio Garcia\(^1\) Kevin Ivan Tran\(^2\) Dr. Arezoo Campbell\(^2\)
\(^1\) Biological Sciences Department, Cal Poly Pomona  \(^2\) Western University of Health Sciences

DIFFERENTIAL CELL-SPECIFIC LOCALIZATION OF CYTOCHROME OXIDASE IN EPITHELIAL TISSUES IN RAT
Jamie Adkins\(^1\) Jessica Avila\(^1\) Daniel Wege\(^1\) Michelle Ta\(^1\) Surya Vanguri\(^1\) Amber Syage\(^1\) Briana Ho\(^1\) Dr. Glenn Kageyama\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona

Smoking and Candy on Oral Bacteria, Streptococcus mutans, Adherence
Kay Chanea\(^1\) Ashley Palmire\(^1\) Dr. John Chan\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona

PESTICIDES AFFECT THE QUALITY OF OOCYTES, EGGS, AND EARLY EMBRYONIC DEVELOPMENT IN AMPHIBIANS
Qichao Steve Ji\(^1\) Jessica N. Lee\(^1\) Dr. Junjun Liu\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona

Cell Death And Genomic Damage To Human Bone Marrow Stromal Stem Cells By Ion Release Of Metal Prosthetics
Francisca Cabrera\(^1\) Maria I. Garcia\(^1\) Dr. Steve Alas\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona

DNA Damage in Human T Cells by Human Prosthetic Ion Shedding and Debris Particles
Sonia Ramirez\(^1\) Lucy Wei Li\(^1\) Dr. Steve Alas\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona
Investigating the Role of Garlic and Allicin in Modulating the Mitogen Activated Protein Kinase Pathways in LPS-induced TNF-α Secretion
Martha P. Zamora\textsuperscript{1} Dr. Nancy E. Buckley\textsuperscript{1} Dr. Yan Liu\textsuperscript{2} Dr. James A. Rego\textsuperscript{2}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona \textsuperscript{2} Chemistry and Biochemistry Department, Cal Poly Pomona

THE EFFECT OF GARLIC ON THE MOLECULAR MECHANISM OF TUMOR NECROSIS FACTOR-α SECRETION BY MACROPHAGE INDUCED BY LIPOPOLYSACCHARIDE
M. Abid B. Nordin\textsuperscript{1} Dr. Nancy Buckley\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona

EFFECT OF GARLIC AND ALLICIN ON CANDIDA ALBICANS-INDUCED TUMOR NECROSIS FACTOR ALPHA (TNF-α) SECRETION FROM J774A.1 MURINE MACROPHAGES
Dileshni Tilakawardane\textsuperscript{1} Dr. Yan Liu\textsuperscript{2} Dr. Nancy Buckley\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona \textsuperscript{2} Chemistry and Biochemistry Department, Cal Poly Pomona

THE ROLE OF CELLULAR PROLIFERATION DURING ADIPOGENESIS IN HUMAN MESENCHYMAL STEM CELLS
Maribel P. Marquez\textsuperscript{1} Frances Alencastro\textsuperscript{1} Josue Loya Jimenez\textsuperscript{1} Laura L. Keagy\textsuperscript{1} Dr. Yuanxiang Zhao\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona

Understanding RGS2 and RGS4 function in Human Adipogenesis and Osteogenesis
Alma Madrigal\textsuperscript{1} Alberto Herrera\textsuperscript{1} Dr. Yuanxiang Zhao\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona

Analysis of Breast Cancer Associated (BRCA) Gene Mutations in Nuevo Leon, Mexico
Alberto Herrera\textsuperscript{1,2} Dr. Jeffrey N. Weitzel\textsuperscript{2} Dr. Daniel Sumarriva\textsuperscript{2}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona \textsuperscript{2} Clinical Cancer Genetics, City Of Hope

AUTOTRANSPORTER PROTEINS SAT AND TSH OF PROBIOTIC ESCHERICHIA COLI NISSLE 1917
Taylor Lane\textsuperscript{1} Maha Abdulrahim\textsuperscript{1} Martina S. Corsi\textsuperscript{1} Manuela Raffatellu\textsuperscript{1} Dr. Christos Stathopoulos\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona

Ag43 and PicU Autotransporters of Probiotic Escherichia coli Nissle 1917
Maha Abdulrahim\textsuperscript{1} Taylor Lane\textsuperscript{1} Martina S. Corsi\textsuperscript{1} Manuela Raffatellu\textsuperscript{1} Dr. Christos Stathopoulos\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona

Detection of the CD40 Receptor on the Cell Surface of Macrophages
Sarineh Zadorian\textsuperscript{1} Suming Chiang\textsuperscript{2} Sam Ho\textsuperscript{2} Dr. Jill Adler-Moore\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona \textsuperscript{2} Molecular Express Inc., Rancho Dominguez

Dispersion of Phase Integrases in Acinetobacter baumannii Strains
Eleana S. Guardado\textsuperscript{4,1} German M. Traglia\textsuperscript{2} Dr. M. Soledad Ramirez\textsuperscript{2}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona \textsuperscript{2} Instituto de Microbiología y Parasitología Medica (IMPaM), Buenos Aires, Argentina
THE DEVELOPMENT OF AN ASPERGILLUS FUMIGATUS VACCINE FOR PROTECTION AGAINST PULMONARY ASPERGILLOSIS IN MAMMALS
Adrienne P. Gilkes\textsuperscript{1} Pamela M. Farah\textsuperscript{1} Dr. Jill Adler-Moore\textsuperscript{1,2}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona \textsuperscript{2} Molecular Express Inc., Rancho Dominguez, CA

Investigating the Proper Dosage of Streptozocin Required to Induce Type 1 Diabetes in Mice
Alejandro Varel\textsuperscript{a,1} Juan Ruiz\textsuperscript{2} Dr. Jill Adler-Moore\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona \textsuperscript{2} SEES RaMP Fellowship

DEVELOPMENT OF A SEVERE H3N2 INFLUENZA INFECTION MODEL IN MICE
Jonathan J. Tringali\textsuperscript{1} Dr. Jill Adler-Moore\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona

COMPARISON OF EFFICACY AND DRUG CONCENTRATIONS IN TISSUES OF CANDIDA ALBICANS-INFECTED MICE TREATED WITH INCREASING DOSES OF AMBISOME
Juan Ruiz\textsuperscript{1} Nhu Nguyen\textsuperscript{1} Jon Olson\textsuperscript{1} Dr. Jill Adler-Moore\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona

IDENTIFICATION OF MENAQUINONE-7 PRODUCING BACTERIA
Prashan De Zoysa\textsuperscript{1} Dr. Wei-Jen Lin\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona

Prevalence of Tetracycline Resistance in Clostridium Species Isolated from Horses
Kun Ho Lee\textsuperscript{1} Angelica Castaneda\textsuperscript{1} Stefan F. Riedel\textsuperscript{1} Dr. Shelton Murinda\textsuperscript{2} Dr. Wei-Jen Lin\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona \textsuperscript{2} Animal and Veterinary Sciences Department, Cal Poly Pomona

METAGENOMICS APPROACH TO PREDICT FUNCTIONAL CAPABILITIES OF MICROBES IN CLEAN ROOM FACILITIES
Alexander Mahnert\textsuperscript{1} Matthew Christensen\textsuperscript{1} Kasthuri Venkateswaran\textsuperscript{1} Gabriele Berg\textsuperscript{2} Parag Vaishampayan\textsuperscript{2}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona \textsuperscript{2} Institute of Environmental Biotechnology, Graz University of Technology, Graz, Austria \textsuperscript{3} Jet Propulsion Laboratory, California Institute of Technology

ALIENS, PARASITES AND BIOTIC RESISTANCE: STUDYING THE POTENTIAL DISPERSAL OF HAMINOEA JAPONICA (MOLLUSCA: OPISTHOBRANCHIA) INTO SOUTHERN CALIFORNIA
Jennifer B. Green\textsuperscript{1} Dr. Ángel Valdés\textsuperscript{1} Dr. David Moriarty\textsuperscript{1} Dr. Jayson Smith\textsuperscript{1}
\textsuperscript{1} Biological Sciences Department, Cal Poly Pomona

POPULATION GENETICS OF FELIMARE CALIFORNIENSIS: THE REGIONAL EXTINCTION AND NASCENT RECOVERY OF A CONSPICUOUS DORID NUDIBRANCH IN SOUTHERN CALIFORNIA
Jeff Goddard\textsuperscript{1} Craig A. Hoover\textsuperscript{1} Dr. Ángel Valdés\textsuperscript{2}
\textsuperscript{1} Marine Science Institute, UCSB \textsuperscript{2} Biological Sciences Department, Cal Poly Pomona
DENSE TAXON SAMPLING OF NUDIBRANCHIA AND PHYLOGENETIC PLACEMENT OF THE GENERA DORIDOXA AND BATHYDORIS, AND THE SPECIES TRITONIA PAPALOTLA
Jermaine Mahguib1  Dr. Ángel Valdés1
1 Biological Sciences Department, Cal Poly Pomona

Pacific Nudibranchs: The changing spots of the Leopard Dorid
Tabitha Lindsay1  Anton Chichvarkhin2  Julie Kelly3  Hiroshi Kajihara4  Dr. Ángel Valdés1
1 Biological Sciences Department, Cal Poly Pomona 2 Institute of Marine Biology, Russian Academy of Sciences 3 Biological Sciences Department, Humboldt State University 4 Institute of Marine Biology, Hokkaido University of Japan

A TALE OF TWO CEPHALASPIDEANS: THE GENETIC SIMILARITIES BETWEEN NAVANAX INERMIS AND NAVANAX POLYALPHOS
Sarah Cary1  Dr. Ángel Valdés1
1 Biological Sciences Department, Cal Poly Pomona

Pacific Nudibranchs: The twin Doriopsilla has a twin!
Craig Hoover1  Tabitha Lindsay1  Jeff Goddard2  Hans Bertsch3  Matthew McPhillips1  Eric Breslau1  Dr. Ángel Valdés1
1 Biological Sciences Department, Cal Poly Pomona 2 Instituto de Investigaciones Oceanológicas, Universidad Autónoma de Baja California 3 Marine Science Institute, University of California, Santa Barbara

CHARACTERIZATION OF SUPPRESSORS OF SPE-27 IN C. ELEGANS
Aubrie L. De La Cruz1  Nick G. Sullivan1  Dr. Craig LaMunyon1
1 Biological Sciences Department, Cal Poly Pomona

Managing the Spread of Fire in a Tropical Ecosystem in Hawaii
Brian Myers1  Dr. Erin Questad1
1 Biological Sciences Department, California Poly Pomona

NITROGEN EFFECTS ON MYCORRHIZAE COLONIZATION IN A CALIFORNIA NATIVE GRASS AND INVASIVE GRASS
Rari Marks1  Dr. Erin Questad1
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Fire restoration prescriptions among dynamic Hawaii dryland communities
Marcus Douglas Hubbell1  Dr. Erin Questad1
1 Biological Sciences Department, Cal Poly Pomona

ARTHROPOD COMMUNITY RESPONSE TO PLANT INVASION AND NITROGEN DEPOSITION
Eliza Hernandez1  Dr. Erin Questad1
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AN EVALUATION OF MANAGEMENT STRATEGIES TO PROTECT ROCKY INTERTIDAL SPECIES FROM THE IMPACTS OF HUMAN ACTIVITIES: A LOOK INTO THE PAST, THE PRESENT, AND THE FUTURE
Benjamin J. Lucas1  Dr. Jayson Smith1
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POPPULATION DECLINES IN ORANGE COUNTY, CA OF THE ROCKY INTERTIDAL OCHRE SEA STAR *PISASTER OCHRACEUS* FROM WASTING DISEASE
Sean T. Agler\(^1\), Benjamin Lucas\(^1\), Dr. Jayson Smith\(^1\)
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EFFECTS OF FLORAL VISITATION FREQUENCY AND TIME OF DAY ON CUMULATIVE POLLEN DEPOSITION BY BEE ASSEMBLAGES IN SOUTHERN CALIFORNIA WATERMELON CROPS
Jacob M. Cecala\(^1\), Dr. Joan Leong\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona

DETERMINING THE PREVALENCE OF THE FUNGAL PARASITE, *NOSEMA*, IN THE EUROPEAN HONEY BEE IN MANAGED AND FERAL HIVES
Stephanie M. Duenas\(^1\), Dr. Joan Leong
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FACTORS INFLUENCING HONEY BEE (*APIS MELLIFERA*) SPATIAL MEMORY ON WATERMELON (*CITRULLUS LANATUS*)
Jon R. Sacro\(^1\), Dr. Joan Leong
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INVESTIGATING THE EFFECTS OF TIME AND FIELD CONDITIONS ON WATERMELON POLLEN VIABILITY, AND THE RESULTING IMPLICATIONS REGARDING RESEARCH INTO SECONDARY POLLEN TRANSFER
Christopher H. Lee\(^1\), Dr. Joan Leong\(^1\)
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A SURVEY OF URBAN/SUBURBAN BEE POLLINATORS IN LOS ANGELES COUNTY ASSOCIATED WITH WILDFLOWER L.A. NATIVE WILDFLOWER PLANTINGS
Jacob Cecala\(^1\), Jesus Cepepa\(^1\), Stephanie Duenas\(^1\), Pierre Lau\(^1\), Carmel Tabush\(^1\), Andrew To\(^1\), Aylcia Uyeoka\(^1\), Dr. Joan Leong\(^1\)
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Analysis of sexual size and shape dimorphism in California Alligator Lizards (*Elgaria*): lineage and population level divergence in form and function
Thomas A. Marino\(^1\), Marlena L. Lopez\(^1\), Dr. A. Kristopher Lappin\(^1\)
\(^1\) Biological Sciences Department, Cal Poly Pomona

Territory Establishment and Maintenance in Two Territorial Lizard Species: the Western Fence Lizard (*Sceloporus occidentalis*) and the Side-blotched Lizard (*Uta stansburiana*)
Mark Kameron Roth\(^1\), Dr. A. Kristopher Lappin\(^1\)
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The Effect of L-theanine and Caffeine on Cognitive Performance in Terms of Short Term Memory
Jimmy Duong\(^1\), Andrew R. Gibson\(^1\), Dr. Bonny Burns-Whitmore, RD\(^1\)
\(^1\) Human Nutrition and Food Science Department, Cal Poly Pomona
Biofilm Formation on Traditional and Novel Metal Alloys
Selma Reyes¹ Aaron Alvarado¹ Dr. Steve Alas¹ Dr. Nina Abramzon²
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Biofilm Prevention Project
Ashley Matsushita¹ Lindsey Kabot² Selma Reyes¹ Aaron Alvarado¹ Tanner Worden² Dr. Steve Alas¹ Dr. Nina Abramzon²
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Synthesis of Phenyl (3, 3'-dipyridyl) amine
Monique G. Sobero¹ Dr. Francis Flores¹
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THE NATURE OF STRESS IS IMPORTANT FOR THE DEVELOPMENT OF DEPRESSION-LIKE BEHAVIOR IN MICE
Sidney Vanessa Perez¹ Dr. Kabir Lutfy²
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ONLINE ORGANIC CHEMISTRY EXERCISES FOR ALKENE REACTIONS: DESIGN, IMPLEMENTATION, AND ASSESSMENT
Joyann S. Barber¹ William K. Weigel¹ Dr. Laurie Starkey¹
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GROUND CONTROL EXPERIMENTS AND FLIGHT SAMPLE PREPARATION FOR THE INTERNATIONAL SPACE STATION OREOCUBE: ORGANICS EXPOSURE IN ORBIT EXPERIMENT
Jillian S. Walker¹ Richard C. Quinn²,³
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DETECTING LEVOGLUCOSAN BY A GAS CHROMATOGRAPHY-MASS SPECTROMETRY METHOD
Dianne Sanchez¹ Dr. Yan Liu¹
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Analytical Discrepancies in Fiber Model Analysis of Unbonded Post-tensioned Precast Concrete Walls
Lucas M. De Buren¹² Dr. Felipe J. Perez, P.E.¹
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Depth of Earthquake Rupture in the Indian Ocean Lithosphere
Austin J. Baca¹ Dr. Jascha Polet¹
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MORPHOTECTONIC INDEX ANALYSIS AS AN INDICATOR OF NEOTECTONIC SEGMENTATION OF THE NICOYA PENINSULA, COSTA RICA
Shawn C. Morrish¹ Dr. Jeffrey Marshall¹
¹ Geological Sciences Department, Cal Poly Pomona
Preliminary Analysis Of Field Data And Thin Sections From Blue Ridge
Oliver Wolfe 1, Dr. Jonathan Nourse 1
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HYDROGEOLOGY AND GEOCHEMISTRY OF BEDROCK VS. LANDSLIDE-SOURCED SPRINGS IN THE EASTERN SAN GABRIEL MOUNTAINS, CALIFORNIA
Paula M. Soto 1, Lucas Lenhert 2, Dr. Jonathan Nourse 1, Dr. Stephen Osborn 1
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Identification Of Beachrocks In The Nicoya Peninsula of Costa Rica
Lilibeth A. Wenceslao 1, Dr. Jonathan Nourse 1
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HYDROGEOLOGIC AND GEOCHEMICAL INVESTIGATION OF ROBUST SPRING DISCHARGE FROM A MAJOR LANDSLIDE IN THE EASTERN SAN GABRIEL MOUNTAINS, CALIFORNIA
Logan E. Wicks 1, Dr. Jonathan Nourse 1, Dr. Stephen Osborn 1
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Water Flow Rates Near Crystal Lake in the San Gabriel Mountains
Cody E. Reigel 1, Dr. Jonathan Nourse 1
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ASSESSING THE QUALITY OF CROWDSOURCED WATER DATA WITH GEOGRAPHIC INFORMATION SYSTEMS (GIS)
Felipe Tolliver 1, Dr. Lourdes Abellera 1
1 Civil Engineering Department, Cal Poly Pomona

Impacts of 500-year Flood on Surface Water Resources in Areas of Oil/Gas Production, South Platte River, CO
Patrick S. Thomas 1, Dr. Stephen Osborn 1
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TRACING GROUNDWATER AND SALINITY SOURCES FOR THE DOS PALMAS PRESERVE
Jacob Loukeh 1, Katrina Kaiser 1, Dr. Stephen Osborn 1
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GULLIES ON MARS: FLUVIAL GEOLOGIC PROCESSES AS EVIDENCE FOR LIQUID WATER ON MARS
Deborah J. Hernandez 1,2, Virginia C. Gulick 1,2, Carly A. Narlesky 1,4
1 NASA-Ames Research Center, 2 Geological Sciences Department, Cal Poly Pomona, 3 SETI Institute, Mountain View, CA, 4 MBK Engineers, Sacramento, CA

EFFECTS OF STROKE AND REHABILITATION
Nasser Hashem 1, Dr. Hyun Gu Kang 1
1 Kinesiology and Health Promotion Department, Cal Poly Pomona
PREVENTION OF REOCCURING LUMBAR SPINE INJURIES IN OLDER ADULTS THROUGH REHABILITATION
Veronica L. Ramos¹ Dr. Hyun Gu Kang¹
¹ Kinesiology and Health Promotion Department, Cal Poly Pomona

MAKING EXERCISE CANCER'S WORST ENEMY
MaLisa C. Crowe¹ Dr. Hyun Gu Kang¹
¹ Kinesiology and Health Promotion Department, Cal Poly Pomona

Motivating Stroke Patients
Michael J. Le¹ Dr. Hyun Gu Kang¹
¹ Kinesiology and Health Promotion Department, Cal Poly Pomona

STRETCHING, RANGE OF MOTION, AND STRENGTHENING EXERCISES FOR TREATMENT AND CONDITIONING OF THE ROTATOR CUFF
Tri Duong¹ Dr. Hyun Gu Kang¹
¹ Kinesiology and Health Promotion Department, Cal Poly Pomona

Knee arthritis & knee pain the largest contributors for disability in the elderly
Cindy P. Paez² Dr. Hyun Gu Kang¹
¹ Kinesiology and Health Promotion Department, Cal Poly Pomona

Fall Prevention Among Senior Citizens: Don't Fall, Make the Call To Senior Fitness
Ryan Manuwa¹ Dr. Hyun Gu Kang¹
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RELATION OF PRESSURE PLACED ON ATHLETES IN SPORT TO THE PREVALANCE OF OVERUSE INJURIES
Shawna Emi Lempert¹ Dr. Hyun Gu Kang¹
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Maximum Log Likelihood Analysis of Diffraction-Limited Images
Davon T. Webb¹ Dr. Alexander Small¹
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ASTEROID FAMILY IDENTIFICATION AND MODELING THEIR EVOLUTION USING WISE/NEOWISE PHYSICAL PROPERTIES
Mario S. Cabrera¹ Dr. Joseph Masiero²
¹ Physics and Astronomy Department, Cal Poly Pomona ² Jet Propulsion Laboratory

THE BROOD OF THE SWAN: A MULTIGENERATIONAL STELLAR POPULATION IN M17?
N. Nicole Sanchez¹ Dr. Matthew Povich¹ J. H. Bieging²
¹ Physics and Astronomy Department, Cal Poly Pomona ² Department of Astronomy and Steward Observatory, University of Arizona

Embedding tapered fiber sensors within microfluidic channels for Bacterial sensing
Adrian A. Ortiz¹ Dr. Ertan Salik²
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Computational microscope in a cellphone
David Vega¹ Dr. Ertan Salik¹
¹ Physics and Astronomy Department, Cal Poly Pomona

BI-CONICALLY TAPERED FIBER SENSORS WITH ULTRAHIGH REFRACTIVE INDEX SENSITIVITY
Victor M. Herrera¹ Martin Sanchez¹ Dr. Ertan Salik¹
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Controlling the Shape and Sensitivity of Tapered Optical Fibers
Conor Rowland¹ Martin Sanchez¹ Dr. Ertan Salik¹
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SPECTROMETER BASED ON A TUNABLE ERBIUM-DOPED FIBER LASER WITH AUTOMATED DATA ACQUISITION ON LABVIEW
Nicolas R. Perez¹ Ryan A. Omidi² Dr. Ertan Salik¹
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Embedding of Tapered Fiber Optical Sensors in Microfluidic Channels
Miguel Reyes¹ Dr. Ertan Salik²
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STRUCTURAL POUNDING SIMULATION OF ADJACENT STEEL STRUCTURES
Miguel A. Rodriguez¹ Dr. Hubertus F. von Bremen¹
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MODELS FOR HOMELESS HOUSING
Joe Gani¹ Natalie C. Gasca² Dr. Randall Swift²
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Image Processing for Photo Analysis of Germinating Seeds
David Scianni¹ Dr. Amar Raheja¹
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LOCATION BASED APPS FOR CAMPUS EVENTS AND NAVIGATION
Huy Le¹ Zach Kysar¹ Dr. Daisy Sang¹
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TWITTER COVER
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