

Seed Grant Award Recipients

Summer 2017



Project Title	PI Name	Co PI Name	Participating Campuses/ Institutions
Role of Endocytic Regulators EHD1/2 in Adipocyte Hypertrophy and Metabolism	Hamid Band, UNMC	Soonkyu Chung	UNL
One Health: A systems approach linking human and livestock antibiotic resistance at the watershed scale	Shannon Bartelt Hunt, UNL	Wayne Mathews Linsey Donner Xu Li Alan Kolok	UNMC UNMC UNL UNO
Development of a system level pangenome metabolic model for analysis of Staphylococcus aureus physiology	Kenneth Bayles, UNMC	Paul Fey Vinai Chittezhom Thomas Daryl Murry Robert Powers Rajib Saha Marat Sadykov	UNMC UNMC UNMC UNL UNL UNMC
Enhancing phytosterol bioavailability using nanoporous starch bioaerogels	Ozan Ciftci, UNL	Tatiana Bronich Devin Rose Regis Moreau Jian Zhang	UNMC UNL UNL UNL
Early diagnostic signs of autism	Shari DeVeney, UNO	Wayne Fisher Anastasia Kyvelidou Howard Needelman	UNMC Creighton University UNMC
A Model Based Approach to Dependability for a Family of Surgical Robots	Shane Farritor, UNL	Myra Cohen Hamid Bagheri Dmitry Oleynikov Marsha Morien	UNL UNL UNMC UNMC

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System Science of Pancreatic Cancer	Michael Hollingsworth, UNMC	Hesham Ali Qi Zhang	

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Systems Biological Modeling of Pathogen Host Interactome Immunome	Marilynn Larson, UNMC	Khalid Sayood Kaihong Su Ufuk Nalbantoglu	UNL UNMC Other
Regulation of Nutrient Sensing and Energy Metabolism	Marilynn Larson		

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The Impact of habitat loss and fragmentation on human wildlife conflict in an agriculturally dominated system	Dustin Ranglack, UNK	Nate Bickford Matt Bice Sonja Bickford Angela Hollman James Hayes	UNK UNK UNK UNK UNO
Dynamical Modeling as a Method for Integrating Multi Level Data for Translational Science in Innate Immunity	Jim Rogers, UNO	Pawel Ciborowski Tomas Helikar Mahbubul Majumder Dora Matache	UNMC UNL UNO UNO
Microscale Investigation of Mechanobiology of Atherosclerosis Using Novel Microfluidic Biochambers	Sangjin Ryu, UNL	Yiannis Chatzizisis Timothy Wei Iraklis Pipinos Jae Sung Park	UNMC UNL UNMC UNL
Risk of Adverse Birth Outcomes Associated with Maternal Exposure to Nitrate and Nitrosatable Compounds in Drinking Water	Patrick Shea, UNL	Helen Raikes Debora Barnes Josiah Troy Gilmore Jane Meza Kent Eskridge	UNL UNMC UNL UNMC UNL
An Analysis of Localized Muscle Fatigue, I Beam Surface Coating, and Harness and Tool Belt on Gait Stability for Steel Erection	Terry Stentz, UNL	Jorge Zuniga Nick Stergiou Changbum Ahnn	

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Foot Biomechanics and Thermoregulation in Peripheral Artery Disease and Diabetes	Kota Takahashi, UNO	Iraklis Pipinos Alexey Kamenskiy Dustin Slivka Greg Bashford	UNMC UNMC UNO UNL
Maternal Obesity Dependent Mechanisms that Increase Offspring Predisposition for Metabolic Dysfunction	Jennifer Wood, UNL	Dustin Yates Jessica Petersen Sathish Natarajan Robert Bennett Dinesh Chandel Pinaki Panigrahi	UNL UNL UNL UNMC UNMC UNMC UNMC UNMC