

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 |