Seed Grant Award Recipients

July 1, 2018

UNIVERSITY 1 OF Nebraska

Project Title	PI Name	Co-PI Name	Participating Campuses/ Institutions
Cellular Fidelity	Donald Becker, UNL	Rodrigo Franco Oleh Khalimonchuk Matthew Van Hook Mark Wilson	UNL UNL UNMC UNL
Critical Infrastructure and Sustainable Livelihoods for Experiential Reconnaissance Research (CLERR)	DeeDee Bennett, UNO	Terri Norton Hans Louis-Charles	UNL UNO
Targeting APE1 and FACT Complex to Overcome 5-Fluorouracil Resistance in Colan Cancer	Kishor Bhakat, UNMC	Forrest Kievit Jing (Jenny) Wang	UNL UNMC
Batteries for Transportation: Stimuli-responsive Binary Metal Alloy for High Power and High Capacity Energy Storage	Florin Bobaru, UNL	Li Tan Wai-Ning Mei	UNL UNO
Development of a portable episcleral venomanometer for future use as a non-invasive biomarker for intracranial pressure changes	Deepta Ghate, UNMC	Vikas Gulati Carol Toris Sachin Kedar Carl Nelson Deepak Khazanchi	UNMC UNMC UNMC UNL UNO
Translating Efficacious Childhood Obesity Treatment for Rural Micropolitan Practice	Jennie Hill, UNMC	Kate Heelan Paul Estabrooks Todd Bartee Bryce Abbey Christopher Wichman Changmin Yan Tzeyu Michaud	UNK UNMC UNK UNK UNMC UNL UNMC

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Strengthening the Trans Collaborations Research Team: Testing Affirmative Principles of Behavioral Health Care and Building Capacity in Preparation for a Clinical Trial	Debra Hope, UNL	Richard Mocarski Nathan Woodruff Jane Meza Joshua Eyer Jae Puckett	UNK Community Partner UNMC University of Alabama Univeristy of South Dakota
Growth Factor Dynamics and Regenerative Capacity of Gustatory and Somatosensory Systems Using Microfluidics	Sung-Ho Huh, UNMC	Suzanne Sollars Hyung Kim	UNO UNMC
Biomimetic Liver Models to Investigate the Role of Matrix Rigidity for Promoting Liver Injury Induced by HIV and Alcohol	Srivatsan Kidambi, UNL	Natalia Osna Larisa Poluektova Murali Ganesan Senthilkumar Thulasingam	UNMC UNMC UNMC UNL
Multiscale-Multiphysics Modeling of Corrosion-Induced Damage in Structural Tendons	Yong Rak Kim, UNL	Chungwook Sim Florin Bobaru Mahmoud Shakouri	UNL UNL UNK
Splice variants as biomarkers and therapeutic targets in pancreatic cancer	Sushil Kumar, UNMC	Dario Ghersi Hesham Ali	UNO UNO
Understanding the molecular mechanism of dietary γ-glutamyl peptides in the prevention of low-grade inflammation-induced chronic disorders	Kaustav Majumder, UNL	Matthew Zimmerman Regis Moreau	UNMC UNL
Understanding the role of BMX-001 in acute radiation syndrome	Rebecca Oberley-Deegan, UNMC	Jered Garrison Robert Powers	UNMC UNL
Artificial Intelligence for Telesurgical Robots	Dmitry Oleynikov, UNMC	Shane Farritor Eric Psota	UNL UNL

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Phosphatase 1 nuclear targeting subunit in Poly(ADP-ribose) polymerase-mediated DNA repair and cancer therapy	Aimin Peng, UNMC	Srivatsan Kidambi	UNL
Microbial and dietary control of cardiomyopathy: proof of principle studies in mouse models	Amanda Ramer-Tait, UNL	Brian Lowes Andrew Benson	UNMC UNL
Capturing Archaeal Biochemistry to Build Bigger Botanical Biomass	Rebecca Roston, UNL	Nicole Buan Nate Bickford	UNL UNK
Site-Specific Glyphosate-Resistant Weed Management Using Unmanned Aircraft System, Deep Learning, and Novel Herbicide Applicator	Yeyin Shi, UNL	Eric Psota Hendrik Viljoen Amit Jhala Annette Moser	UNL UNL UNL UNK
Systemic analysis of humoral immune responses in survivors of Ebola virus disease	Kaihong Su, UNMC	Chi Zhang St. Patrick Reid Steven Hinrichs	UNL UNMC UNMC
The Role of TP-R in the pathogenesis of alcoholic and non-alcoholic fatty liver disease	Saraswathi Viswanathan, UNMC	Carol Casey Robert Powers Edward Harris James Eudy	UNMC UNL UNL UNMC
Molecular Basis of Ligand-Regulated Proteostasis	Mark Wilson, UNL	Jaekwon Lee Michael Moxley	UNL UNK
3D Data Fusion and Visualization for Bridge Deck Evaluation Using Multi-Sensor NDE Techniques	Jinying Zhu, UNL	Chungwook Sim Qiuming Zhu Zhengxin Chen	UNL UNO UNO