Collaboration Initiative
Seed Grant Award Recipients

July 1, 2020

Proposal Title	PI Name	Co-PI Name	Participating Campuses
A Cybersecurity Educational Platform by Automatically Generating Personalized Feedback	Myoungkyu Song		UNO
		Leen-Kiat Soh	UNL
		Harvey Siy	UNO
		Rui Zhao	UNO
A global soil spectral calibration and prediction network to characterize the global soils	Yufeng Ge		UNL
		Pei-Chi Huang	UNO
		Nuwan Wijewardane	UNL
An Integrated Computational and Experimental Approach to Dissect the Emergence of Antimicrobial Resistance (AMR)	Rajib Saha		UNL
		Diganta Dutta	UNK
		Samodha Fernando	UNL
An integrated computational and experimental study to investigate the metabolic regulation of Staphylococcus aureus	Ken Bayles		UNMC
		Rajib Saha	UNL
		Vinai Chittezham Thomas	UNMC
		Paul Fey	UNMC
Characterization of Hydro-Mechanically Coupled Fluid Transport in Deformable Porous Media and Application to Convection-Enhanced Drug Delivery	Seunghee Kim		UNL
		Chi Zhang	UNMC
		Sangjin Ryu	UNL
Copper in Lipid Metabolism and Energy Homeostasis	Jaekwon Lee		UNL
		Hyun-Seob Song	UNL
		Saraswathi Viswanathan	UNMC
		Seung-Hyun Ro	UNL

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Developing and Alternative Cementitious Material from Raw Corn Stover and Bioethanol Production Plants Waste Products	**Mahmoud Shakouri**		**UNK**
		Cody Stolle	UNL
		Jiong Hu	UNL
Development and Application of Next-Generation Biomedical X-ray Imaging	**Matthias Fuchs**		**UNL**
		Philipp Streubel	UNMC
		Bin Duan	UNMC
Development of a novel mouse model to study the health and behavioral consequences of alcohol-associated intestinal dysbiosis	**Derrick Samuelson**		**UNMC**
		Amanda Ramer-Tait	UNL
Development of Biomimetic Model for Alcohol-Induced Liver Injury	**Paul Thomes**		**UNMC**
		Carol Casey	UNMC
		Srivatsan Kidambi	UNL
Education, Migration, and Teacher Preparation	**Ted Hamann**		**UNL**
		Janet Eckerson	UNK
		Chandra Diaz DeBose	UNK
		Stephanie Wessels	UNL
		Amanda Morales	UNL
		Theresa Catalano	UNL
Embracing the uncertainty: Make big data bigger and radiomics models better	**Huijing Du**		**UNL**
		Hongfeng Yu	UNL
		Chi Zhang	UNL
		Qi Zhang	UNL
		Dandan Zheng	UNMC

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Enhancing antiretroviral drug pharmacokinetics using anti-inflammatory galunisertib combination to treat HIV/AIDS	Shetty ravi Dyavar		UNMC
		Tony Podany	UNMC
		Courtney Fletcher	UNMC
		Siddappa Nagadenahalli	UNMC
		Dhundy Bastola	UNO
Fighting Dementia: Clinical Translational effects of learning a new language	Ladan Ghazi Saidi		UNK
		Cary Savage	UNL
		Douglas Schultz	UNL
Forcibly Removed: Workshop and Symposia on the Lived Experiences of Displaced Persons	Lory Dance		UNL
		Cindy Krafka	UNO
		Margaret Huettl	UNL
		Abla Hasan	UNL
		Frances Kaye	UNL
		Shams Al-Badry	UNL
		Tiffani Luethke	UNK
		Michelle Warren	UNK
HBV infection accelerates liver fibrosis development: role of matrix stiffness	Srivatsan Kidambi		UNL
		Murali Ganesan	UNMC
		Larisa Poluektova	UNMC
		Natalia Osna	UNMC
Immune Evasion and Persistence by Intracellular Francisella tularensis	Marilynn Larson		UNMC
		Tomas Helikar	UNL
Investigation of the Molecular Dialogue Between the Desmosome and Adherens Junction using a Single Cell Pair Stimulation Platform	Ruiguo Yang		UNL
		Keith Johnson	UNMC
		James Wahl	UNMC

Proposal Title	PI Name	Co-PI Name	Participating Campuses
Linking child stunting and cognitive development, microbiome, livestock, and water quality: A One Health pilot study in Rwanda	**Elizabeth VanWormer**		**UNL**
		Stephen Obaro	UNMC
		Chittaranjan Ray	UNL
		Daniel Snow	UNL
		Andrew Benson	UNL
		Abbie Raikes	UNMC
		Helen Raikes	UNL
Mechanotransduction of plant invaders: quantifying entry mechanisms of parasitic plants	**Joseph Turner**		**UNL**
		Paul Twigg	UNK
		You Zhou	UNL
		Daniel Schachtman	UNL
miRNA-based Therapeutic Strategy for Diabetic Breast Cancer	**Surabhi Chandra**		**UNK**
		Paras Kumar Mishra	UNMC
Moving From Good Data to Good Outcomes: An Exploratory Project for Explainable Artificial Intelligence	**John Windle**		**UNMC**
		Stephen Scott	UNL
Multi-physical and Multi-scale Analysis of Water Infiltration through Frozen Soils	**Jongwan Eun**		**UNL**
		Chittaranjan Ray	UNL
		Jong-Hoon Youn	UNO
		Yeongjin Gwon	UNMC
Proteolytic regulation of mitochondrial function as a tumor suppressive mechanism in breast cancer	**Oleh Khalimonchuk**		**UNL**
		Vimla Band	UNMC

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Role of Microbiota and Lipid metabolism in colitis and associated Carcinogenesis	**Punita Dhawan**		**UNMC**
		Dhundy Bastola	UNO
		Geoffrey Talmon	UNMC
		Amanda Ramer-Tait	UNL
Security and Hackability Considerations of Driverless Tractors and Agricultural Robots	**Santosh Pitla**		**UNL**
		Cody Stolle	UNL
		George Grispos	UNO
Spatial Analysis of Health Care Accessibility and Usage in Nebraska	**Sajda Qureshi**		**UNO**
		Martina Clarke	UNMC
		Timi Barone	UNO
		John Windle	UNMC
		Yi Qi	UNL
		Jason Combs	UNK
		Paul Burger	UNK
Stretch Mechanotransduction for MSC Osteogenesis	**Jung Yul Lim**		**UNL**
		Bin Duan	UNMC
		Ruiguo Yang	UNL
Structure Based Inhibitors Design Targeting RNA Polymerase against Flavivirus Infection	**Shi-Hua Xiang**		**UNL**
		Sean Avedissian	UNMC
		Corey Hopkins	UNMC
		Nick Palermo	UNL
Multidisciplinary Approach	**Mario Scalora**		**UNL**
		Stephen Scott	UNL
		Hau Chan	UNL
		Magie Hall	UNO
		Peter Muhlberger	UNL

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Understanding the molecular mechanism of bean-derived peptides in regulating blood pressure through the gastrointestinal-renal axis	Kaustav Majumder		**UNL**
		Matthew Zimmerman	UNMC
		Kaushik Patel	UNMC
		Regis Moreau	UNL
Wearable bioelectronic device to detect changes in health status	Eric Markvicka		**UNL**
		Kate Cooper	UNO
		Stephen Rennard	UNMC
		Jenna Yentes	UNO