University of Nebraska System

Collaboration Initiative
Team Seed Grants

July 1, 2022

Proposal Title	Researchers		Campus
Brain Signal Oscillations During Gait in Parkinsons Disease: Potential for Treatment	Carolin Curtze	PI	UNO
	Aviva Abosch		UNMC
Development of Hydrogel Ionic Circuit-Based Transcutaneous Electrical Stimulation Device for Long-Gap Peripheral Nerve Repair	Bin Duan	PI	UNMC
	Christos Argyropoulos		UNL
	Siwei Zhao		UNMC
Effects of Prenatal Atrazine Exposure on Health and Fertility Outcomes in a Swine Model	Amy Desaulniers	PI	UNL
	Shannon Bartelt-Hunt		UNL
	Eleanor Rogan		UNMC
	Sarah Sillman		UNL
	Muhammad Zahid		UNMC
Estimating Landscape-Level Contributions in Ecosystem Goods & Services from the Conservation Reserve Program in Nebraska	Melissa Wuellner	PI	UNK
	Simanti Banerjee		UNL
	Pricila Iranah		UNK
	Jayne Jonas-Bratten		UNK
	Andrew Little		UNL
	Gregory Pec		UNK
	Yi Qi		UNL
	Letty Reichart		UNK
	Tirthankar Roy		UNL
	Daniel Uden		UNL
Fatty Acid Synthesis and Ovarian Steroidogenesis	John Davis	PI	UNMC
	Andrea Cupp		UNL
	DJ Murry		UNMC

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Framework for Human-Robot Interactions in Healthcare Facility Operations	Kyungki Kim	PI	UNL
	Melissa Christian		UNMC
	Erica Ryherd		UNL
	Dung Hoang Tran		UNL
	John Windle		UNMC
Future Artificial Intelligence through Biomimetic Living Micro-Brain	Sasitharan Balasubramaniam	PI	UNL
	Pei-Chi Huang		UNO
	Srivatsan Kidambi		UNL
Gut Microbiome-Focused Approaches for Improving Treatment of Acute Radiation Injuries	Amanda Ramer-Tait	PI	UNL
	Andrew Benson		UNL
	Becky Deegan		UNMC
	Audrey Lazenby		UNMC
	Jeff Price		UNL
Harnessing the Regulation of Nuclear Receptor Signaling to Limit Hepatic Steatosis and Fibrosis	Xinghui Sun	PI	UNL
	Kusum Kharbanda		UNMC
	Joseph Vetro		UNMC
Human Macrophage-Intracellular Francisella Tularensis Interactome	Marilynn Larson	PI	UNMC
	Tomas Helikar		UNL
Hydrogen Sulfide as a Biomarker in Patients with Peripheral Arterial Disease	Song-Young Park	PI	UNO
	Yeongjin Gwon		UNMC
	Paras Kumar Mishra		UNMC
	Iraklis Pipinos		UNMC
	Matthew Zimmerman		UNMC

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Improving Spring Flood Prediction Based on Multi-Physical and Data-Driven Convergent Modeling	Jongwan Eun	PI	UNL
	Kwangsung Oh	No	UNO
	Incheol Kim	No	UNL
	Tirthankar Roy	No	UNL
Intelligent System Research to Address Health Related Misinformation, Distrust, and Impeded Decision-making	Joel Elson	PI	UNO
	Dhundy Bastola		UNO
	Jason Johanning		UNMC
	Sharon Obasi		UNK
	Tenace Kwaku Setor		UNO
Large Animal Model of Controlled Vascular Calcification	Alexey Kamenskiy	PI	UNO
	Jason MacTaggart		UNMC
The Molecular Mechanism of Genome Stability in the Mitochondria of Flowering Plants	Piero Bianco	PI	UNMC
	Alan Christensen		UNL
Nebraska Education Policy Research Lab	Tami Williams	PI	UNO
	Xiaoyue Zoe Cheng		UNO
	Kelly Gomez Johnson		UNO
	Taeyeon Kim		UNL
	Md Mahbubul Majumder		UNO
	C Ostler		UNO
	Aprille Phillips		UNK
	Josie Schafer		UNO
	Morgan Vogel		UNO
A Novel Self-Amplifying mRNA Vaccine Platform Against Swine Influenza Virus	Hiep Vu	PI	UNL
	Paul H Davis		UNO

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Palmitoleate Protects Against Zika Virus Infection in Trophoblasts by Activating Innate Immunity	Sathish Kumar Natarajan	PI	UNL
	Ann Anderson Berry		UNMC
	Murali Ganesan		UNMC
	Corri Hanson		UNMC
Quark: An Intelligent Adaptive Education Platform for Quantum Cybersecurity	Abhishek Parakh	PI	UNO
	Mahadevan Subramaniam		UNO
	Sherri Weitl-Harms		UNK
Synthetic Biomimetic Environment (BEASTS) to Investigate the Role of Stiffness in Altered Redox Signaling and Inflammation in Placenta during HDP	Ann Anderson Berry	PI	UNMC
	Corri Hanson		UNMC
	Srivatsan Kidambi		UNL
	Sathish Kumar Natarajan		UNL
	Melissa Thoene		UNMC
Synthetic Biomimetic Environment (BEASTS) to Investigate the Role of Stiffness in Altered Redox Signaling and Inflammation in Placenta during HDP	Paras Kumar Mishra	PI	UNMC
	Song-Young Park		UNO
Wearable Device for Continuous and Noninvasive Measurement of Pulse Wave Velocity	Eric Markvicka	PI	UNL
	Kate Cooper		UNO
	Ran Dai		UNMC
	Brian Lowes		UNMC
	Stephen Rennard		UNMC