

Collaboration Initiative Seed Grant Award Recipients

July 1, 2019

Project Title	PI Name	Co PI Name	Participating Campuses/ Institutions
Strengthening the Center for Electro Optics and functionalized surfaces team to make it competitive for an NSF ERC	Dennis Alexander, UNL	Wai Ning Mei Renat Sabirianov George Gogos Craig Zuhlke Jeff Shield Christos Argyropoulos Siamak Nejati Natale Ianno	UNO UNO UNL UNL UNL UNL UNL UNL
Unraveling mechanisms of wheat heterosis for hybrid cultivar development	Peter Baenziger, UNL	Vikas Belamkar Yufeng Ge Yeyin Shi Trenton Franz James Eudy	UNL UNL UNL UNL UNMC
Ecdysoneless as a novel link between calcium signaling and metabolism in breast cancer	Vimla Band, UNMC	Oleh Khalimonchuk	UNL
Mechanisms of action and resistance of gallium nanoparticles against pathogenic mycobacteria	Raul Barletta, UNL	Prabakaran Narayanasamy Bradley Britigan	UNMC UNMC
Quantum electron beams	Herman Batelaan, UNL	Renat Sabirianov Ken Trantham Jeremy Armstrong Shireen Adenwalla Timothy Gay Martin Centurion	UNO UNK UNK UNL UNL UNL



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Emergency Preparedness Team for weather and climate related events: A safer Nebraska	Jesse Bell, UNMC	Martha Shulski Sharon Meaker Medcalf Rezaul Mahmood Clinton Rowe Michael Hayes Rachel Lookadoo John Martin Lowe	UNL UNMC UNL UNL UNL UNMC UNMC
The alcohol exposome: Role of alcohol use in exposures contributing to human disease	Carol Casey, UNMC	Todd Wyatt Kristina Bailey Benita McVicker Loretta Jophlin Natalia Osna Kusum Kharbanda Robert Powers Murali Ganesan Paul Thomes Sri Kidambi Edward Harris Karuna Rasineni Saraswathi Viswanathan Armen Petrosyan Daren Knoell	UNMC UNMC UNMC UNMC UNMC UNMC UNL UNMC UNMC UNL UNL UNMC UNMC UNMC UNMC
Project Ag Aware: SBIRT in agricultural work settings	Christine Chasek, UNK	Shinobu Watanabe Galloway Sandy Cook Fong Susan Harris Broomfield Chandran Achutan Aaron Yoder	UNMC UNO UNL UNMC UNMC

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Multi scale study of cellular concrete tailored with time dependent rheological behavior	Jiong Hu	Yong Rak Kim Florin Bobaru Mahmoud Shakouri	UNL UNL UNK
Performance tradeoffs in agile arboreal locomotion	Nathaniel Hunt, UNO	James Wilson Carl Nelson	UNO UNL
Engineering optimal 3D bioprinted bone scaffolds for the treatment of craniotomy associated infection	Tammy Kielian, UNMC	Bin Duan Yongfeng Lu Bai Cui	UNMC UNL UNL
Pipe pile based micro scale compressed air energy storage for buildings with intermittent renewable energy resources	Seunghee Kim, UNL	Wei Qiao Youngki Jang	UNL UNO
Pre clinical study of nano engineered fibrin fibronectin matrix for healing large wounds and chronic wounds	Yuguo Lei, UNL	William Velander Mark Carlson	UNL UNMC
Targeted nanoparticulate delivery of hedgehog inhibitor and siAPE1 for treating medulloblastoma	Ram Mahato, UNMC	Kishor Bhakat Forrest Kievit	UNMC UNL
Characterizing the evolution of gene function over a billion years of plant and algal diversification	Jeffrey Mower, UNL	Heriberto Cerutti Thomas Clemente Frank Kovacs Dawn Simon	UNL UNL UNK UNK
Signaling in marmoset oxytocin receptors: From cells, brain imaging, to behavior	Aaryn Mustoe UNO	Jeffrey French Yutong Liu Wallace Thoreson Myron Toews	UNO UNMC UNMC UNMC
Overcoming antibiotic resistance with teixobactin analogs	Hector Palencia, UNK	Austin Nuxoll Paul Fey Andy Zhang	UNK UNMC UNO

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Multi physical and multi phase analysis and modeling of in situ capping system for sediment rehabilitation	Jae Sung Park, UNL	Jongwan Eun	UNL
		Yusong Li	UNL
		Jong Hoon Youn	UNO
Sustainable adoption of Mobile Health (mHealth) on equitable health outcomes in Nebraska	Sajda Qureshi, UNO	John Windle	UNMC
		Timi Barone	UNO
		Yi Qi	UNL
		Marina Clarke	UNMC
Leaky gut in inducing gut bacterial dysbiosis to promote mucosal inflammatory diseases	Amar Singh, UNMC	Amanda Ramer Tait	UNL
		Dundy Bastola	UNO
		Geoffrey Talmon	UNMC
A novel task to decrease step width variability in older adults	Nicholas Stergiou, UNO	Iraklis Pipinos	UNMC
		Julie Masters	UNO
		Kendra Schmid	UNMC
Coming to the plains: Latinx stories in central Nebraska	Michelle Warren, UNK	Lory Janelle	UNL
		Benjamin Malczyk	UNK
		Jacob Rosdail	UNK
		Isabel Velázquez	UNL
Shape recoverable nanofiber aerogels for minimally invasive delivery of 3D ordered and functional tissues	Jingwei Xie, UNMC	Laurinda Weisse	UNK
		Yuguo Lei	

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