3-29-2023

Agenda/Program: Frank Reidy Research Center for Bioelectrics Retreat 2023

Frank Reidy Research Center for Bioelectrics, Old Dominion University

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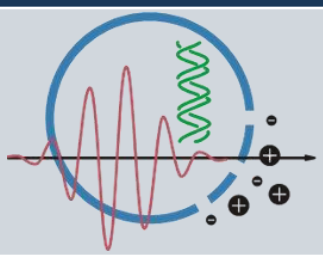
Frank Reidy Research Center for Bioelectrics

RETREAT 2023

PROGRAM

March 29th 2023

Address: 4550 East Beach Drive, Norfolk, VA



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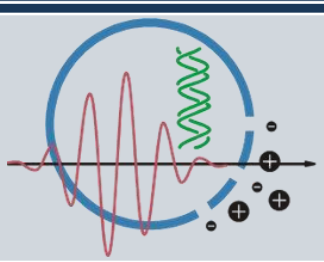
RETREAT 2023
PROGRAM

Time	Session
08:45 – 09:15	Breakfast
09:15 – 09:30	Welcome
09:30 – 10:45	Postdocs & Principal Investigators I
10:45 – 11:05	Coffee Break
11:05 – 12:35	Young Investigators
12:35 – 13:15	Lunch
13:15 – 13:30	Group Photo
13:30 – 14:45	Principal Investigators II
14:45 – 15:15	Coffee Break
15:15 – 16:00	Principal Investigators III
16:00 – 16:30	Invited Speaker, Funding Opportunities
16:30 – 16:55	Awards, Schoenbach Scholarship
16:55 – 17:00	Farewells



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Postdocs & Principal Investigators I

09:30 – 10:45

Time	Presenter, *Title*
09:30 – 09:40	Mantas Silkunas, *Visualization of the Dynamic World of Individual Membrane Lesions in Live Electroporated Cells*
09:40 – 09:50	Giedre Silkuniene, *The alpha-1 subunit of membrane Na,K-ATPase is targeted by nsPEF*
09:50 – 10:00	Vitalii Kim, *Effect of the electric field vector change on the efficacy of nanosecond pulse trains*
10:00 – 10:15	Olga Pakhomova, *Identification of ion channels affecting membrane permeabilization by nsPEF*
10:15 – 10:30	Claudia Muratori, *Immunogenic stress and death in cancer cells treated with nanosecond pulsed electric fields*
10:30 – 10:45	Chunqi Jiang, *Selected research activities in the Plasma and Pulsed Power Laboratory*

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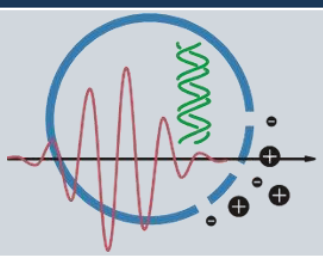

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Young Investigators
11:05 – 12:35

Time	Presenter, *Title*
11:05 – 11:15	Michael Osei-Nkansah, *HSP90 Inhibitors Protective Effects on Endothelial Barrier Function Are Directly Related to HSP70 Levels*
11:15 – 11:25	Emily Gudvangen, *Smooth Muscle Cell Charging With Pulsed Electric Field is Dependent on Cell Orientation*
11:25 – 11:35	Tierney Day, *KVX-053, a PTP4A3 Inhibitor, as a New Therapeutic Agent Against LPS-induced Lung Injury*
11:35 – 11:45	Aislin West, *The Effect of Pulsed Electric Field on IFN-β Production*
11:45 – 11:55	Kamal Asadipour, *Losartan in Combination with the Nanosecond Pulsed Electric Fields Cleared Orthotopic B16F10 Melanoma and Induce in situ Vaccination*
11:55 – 12:05	Matthew Bavuso, *Pathological Indicators Associated with Extracellular Vesicle Size and Concentration May Be Linked to Differences in miRNA Cargo*
12:05 – 12:15	Noel Miller, *Effect of Human Coronary Artery Cell-derived and Adipose-Derived Extracellular Vesicles on Proliferation, Migration, and Permeability in the Presence and Absence of Inflammation*
12:15 – 12:25	Alexandra E. Chittams-Miles, *Combination Treatment of Methicillin-Resistant Staphylococcus aureus with Antibiotics and nsPEF Increases Bacterial Inactivation*
12:25 – 12:35	Zobia Minhas, *Mechanisms of Synergistic Effect Between Nanosecond Electric Pulse and Nonthermal Plasma to Treat Pancreatic Cancer*

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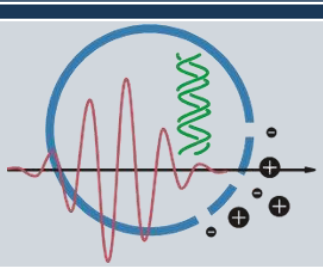

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Principal Investigators II

13:30 – 14:45

Time	Presenter, *Title*
13:30 – 13:45	Iurii Semenov, *Excitation and permeabilization of hippocampal neurons by bipolar pulses*
13:45 – 14:00	Siqi Guo, *Tumor immune microenvironment modification by nanosecond electric pulses*
14:00 – 14:15	John D Catravas, *Overview of Projects in the Catravas Lab*
14:15 – 14:30	Ruben M. L. Colunga Biancatelli, *HSP70 is a critical regulator of HSP90 inhibitor effectiveness in preventing HCl-induced chronic lung injury and pulmonary fibrosis in mice*
14:30 – 14:45	Pavel A Solopov, *The PTP4A3 inhibitor, KVX-053, ameliorates alcohol-exacerbated SARS-CoV-2-induced ARDS*

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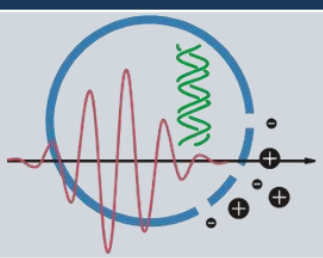

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Principal Investigators III

15:15 – 16:00

Time	Presenter, *Title*
15:15 – 15:30	Hai-Lan Chen, *Inflammation regulation by cold plasma-activated solution*
15:30 – 15:45	Michael Kong, *Killing microbes at the right dose*
15:45 – 16:00	Michael Stacey, *The role of laminopathies in understanding the effects of nanosecond pulsed electric fields on the nucleus*

Invited Speaker

16:00 – 16:30

Time	Presenter, *Title*
16:00 – 16:30	Jackie Stein, *How to Find Funding Opportunities and Assess Them for Fit*

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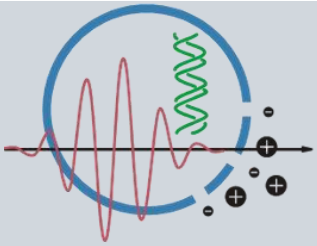

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Organizing Committee:

Chair:

Michael Stacey

Members:

Christiana Dimitropoulou

Vitalii Kim

Olga Pakhomova

Giedre Silkuniene

Mantas Silkunas

Pavel Solopov