## NanoFlorida 2025 International Conference

March 14-16, 2025 FIU Ernest R. Graham Center

Friday, March 14		
5:30 – 5:45PM	Registration	
5:45 – 5:50PM	Welcome Reception The Faculty Club inside the Graham Center	
5:45- 5:50	Welcome and Introduction	
5:50 - 7:00PM	<b>Bridging the Gap: Perspectives and Challenges in University-Industry Collaboration</b> <i>Moderator: Dr. Shyam Mohapatra &amp; Dr. Heidi Mansour</i>	
5:50 - 6:00	Mr. Robert Hacker, Co-Founder & Director StartUP FIU	
6:00 - 6:10	Dr. Dipanjan Pan, Professor Pennsylvania State University	
6:10 - 6:20	Dr. Ezharul Hoque Chowdhury, Founder NanoFlex LLC	
6:20 - 6:30	Mrs. Erin Kidder, Director Johnson & Johnson	
6:30 - 7:00	Q & A	
7:00 - 7:30PM	Closing remarks and Reception	

Saturday, March 15		
7:30 – 8:00AM	Registration, Poster Setup and Breakfast Graham Center Ballroom	
8:00 – 9:15AM	Conference Inauguration	
0.00 - 7.137 NVI	Moderators: Dr. Heidi Mansour & Dr. Nezih Pala	
8:00 – 8:15	Dr. Shyam Mohapatra, President of FAN Univ. of South FL - Opening Remarks	
8:15 – 8:25	Dr. Andres Gil, Senior Vice President of Research and Dean University Graduate School FIU- Opening Remarks	
8:25 – 8:35	<b>Dr. Yesim Darici, Associate Provost for Faculty Success Initiatives</b> FIU - Opening Remarks	
8:35 – 8:45	<b>Dr. Stephen Black, Associate Dean for Herbert Wertheim College of Medicine</b> FIU - Opening Remarks	
<i>Keynote</i> 8:45 - 9:15	<b>Dr. Dipanjan Pan, Professor</b> Pennsylvania State University - "Advanced 2D Nanomaterials for Next Generation Biodiagnostics Application"	
9:15 - 11:15AM	Session 1: Nanosynthesis Applications	
	Moderators: Dr. Swadesh Santra & Dr. Subhra Mohapatra	
9:15 - 9:35	<b>Dr. Reginald Rogers, Jr., Associate Professor</b> <i>Univ. of Missouri - "Responsible</i> Development of Nanotechnology for Educating the Next Generation of Scientists and Engineers"	
9:35 - 9:55	<b>Dr. Jiabing Fan, Assistant Professor</b> Univ. of Maryland Eastern Shore - "Engineering Mesenchymal Stem Cell-Derived Exosome Mimetics for Bone Regeneration"	

9:55 - 10:15	<b>Dr. Mandip Sachdeva, Professor</b> FAMU - "Bioengineered PDL1 targeted exosomes for Cancer Immunotherapy"
10:15 - 10:35	<b>Dr. Mei He, Associate Professor</b> <i>Univ. of FL</i> ( <i>Live Virtual</i> ) - "Nanotechnology and Extracellular Vesicles for Precision Therapeutic Development"
10:35 - 10:55	<b>Dr. Jason C. White, Director</b> The Connecticut Experiment Station - "Nanobiotechnologybased Strategies for Enhanced Phosphorus and Nitrogen Delivery to Crop Species"
10:55 - 11:15	<b>Dr. Nitin Kumar Singhal, Scientist</b> National Agri-Food Biotechnology Inst (Virtual-live) - "Administration of PCK-1 siRNA and G-ELNs improves insulin sensitivity and glucose metabolism in Type 2 diabetes mellitus experimental model"
11:15AM - 12:15PM	Session 2: Artificial Intelligence Applications
	Moderators: Dr. Sylvia Daunert & Dr. Mandip Sachdeva
11:15 - 11:35	<b>Dr. Prem Chapagain, Professor</b> FIU - "AI-driven biomolecular structure modeling and simulations"
11:35 - 11:55	<b>Dr. Saif Islam, Professor</b> <i>University of California, Davis</i> - "Nanostructure-enhanced AI: Unlocking the Power of Light for Precision Healthcare and Cybersecurity Innovations"
11:55 - 12:15	<b>Dr. Shyam Mohapatra, Professor</b> <i>Univ. of South FL - "Convergence of Nanotechnology and Artificial Intelligence: What's in the Future"</i>
12:15 – 1:15PM	
12:15 - 1:05	FAN meeting (8th Street Kitchen)
1:15 -1:25PM	Photo session
1:25 – 2:25PM	Session 3: Nano Devices
	Moderators: Dr. Sapna Deo & Dr. Jack Judy
1:25 - 1:45	<b>Dr. Wei Gao, Professor</b> California Inst. of Technology (Virtual-live) - "Skin-Interfaced Wearable Biosensors"
1:45 - 2:05	<b>Dr. Ajeet Kaushik, Assistant Prof</b> FL Polytechnic Univ "Electrochemical Sensing of Microplastics in Point-of-care Settings"
2:05 - 2:25	<b>Dr. Yvonne Perrie, Professor</b> <i>Univ. of Strathclyde - "Developing mRNA-LNP vaccines: Considerations of formulation and function"</i>
2:25 – 4:15PM	Session 4: Student Oral Presentations
	Moderators: Christia Lomas, Chair & Vianessa Andion Camargo, Co-Chair, Student Organizing Committee
2:25 - 2:35	Jorge David Tovar Castro Univ. of Miami - "Intranasal Vanilloid Nanodrugs"
2:35 - 2:45	Elise Neubarth FAU - "Development of a Portable Device"
2:45 - 2:55	Navdeep Kaur Univ. of South FL - "Impact of Marigold-Silver Nanoparticles"
2:55 - 3:05	Nina Erwin Univ. of FL - "Nano-transfection for Cargo Loading"
3:05 - 3:15	Sandeep Ramteke FIU - "Study and Investigation of particle-wall interactions"
3:15 - 3:25	Sandeep Padakanti FAMU - "Pharmacokinetic Evaluation and Computational Modeling"
3:25 - 3:35	Oscar Sang UCF - "Nano-scale Spectroscopy and Imaging"
3:35 - 3:45	Santosh Khatri FIU - "Conductive Pulse-Based Nanopore Sensing"
3:45 - 3:55	Unaisah Vorajee FSU - "Surface Passivation of Blue-Emitting Perovskite Nanoplatelets"

3:55 - 4:05	Dr. Karthick Mayilsamy Univ. of South FL - "Sh-RNA Dendriplexes for Treatment"
4:05 - 4:15	Coffee Break
4:15 - 5:15PM	Global Academy of Nanotechnology Ceremony
5:15 - 7:00PM	Poster Sessions

Sunday, M	Sunday, March 16		
8:00 – 8:30AN	Registration and Breakfast Graham Center Ballroom		
8:30 – 8:35	Dr. Shyam Mohapatra, Dr. Heidi Mansour & Dr. Nezih Pala - Opening Remarks		
8:35 – 10:40AM	Session 5: Nanoscale Interactions		
	Moderators: Dr. Arti Vashist & Dr. Anthony McGoron		
8:35 - 8:55	<b>Dr. Tejal Desai, Professor</b> Brown University ( <b>Pre-recorded lecture</b> ) - "Nanostructured Materials for Therapeutic Delivery"		
8:55 - 9:15	<b>Dr. Mustafa Culha, Professor</b> Augusta Univ. & SUNUM (Virtual-live) - "Hexagonal boron nitrides in nanomedicine and nanophotonics"		
9:15 - 9:35	<b>Dr. Steven Lenhert, Associate Professor</b> FSU - "Lipid-based molecular recognition"		
9:35 - 9:55	<b>Dr. Sakhrat Khizroev, Professor</b> <i>Univ. of Miami - "MagnetoElectric NanoParticles for Precision Biomedical Applications"</i>		
9:55 - 10:15	<b>Dr. Avi Schroeder, Associate Prof</b> Israel Inst of Technology (Virtual-live) - "Braintargeted liposomes for treating Parkinson's disease"		
10:15 - 10:35	<b>Dr. Jay Panyam, Dean</b> <i>Univ. of Washington</i> ( <i>Virtual-live</i> ) - "Anticancer Nanovaccines for Reprogramming the Immune System"		
10:35 - 10:40	Break		
10:40 - 11:40AM	Wrap up and Closing Remarks Moderators: Dr. Heidi Mansour, Dr. Nezih Pala, & Dr. Shyam Mohapatra		
11:40AM - 12:00PM	Lunch		