



**NOVA SOUTHEASTERN  
UNIVERSITY**  
**Trans-MEC Research Symposium**

South Florida

**Translational Medicine, Engineering, and Computing (Trans-MEC)  
Research Symposium**

**Theme:** “Multi-disciplinary, bench-to-bedside, highly collaborative, and computational intensive research”

**Where:** Nova Southeastern University – Knights Auditorium - DeSantis Building

**When:** Thursday: March 9, 2017 – 8:30am to 2:00pm

**Co-Chairs:**

Richard Jove, Ph.D.  
Director, [Cell Therapy Institute](#)  
Distinguished Research Professor  
Nova Southeastern University

Yair Levy, Ph.D.  
Professor of Information Systems and  
Cybersecurity  
Head, [Levy CyLab](#)  
College of Engineering and Computing  
Nova Southeastern University

**Topics:**

- Translational medicine
- Cell therapy
- Optimal Treatment Courses for Complex Chronic Illnesses
- Biomedical engineering
- Computational modeling and simulation analysis of bioreactors and its implications in engineered tissue formation
- Systems Biology
- Neuro-Immune Medicine
- Artificial Intelligence Applied to Biomedical Research
- Computational translational medical research
- Computational biochemistry
- Cybersecurity and social engineering
- Medical device security
- Molecular Biology and Genomics to Understanding the Deep Sea and Marine Organisms
- Clinical systems biology
- Network security
- Immunotherapy and cancer research
- Big-data and interpretation of big data in medical research

## Schedule:

|                     |                                      |   |
|---------------------|--------------------------------------|---|
| 8:30am - 9:00am -   | Arrival, registration, and breakfast |   |
| 9:00am - 9:10am -   | Dean Dr. Yong Tao                    | College of Engineering and Computing (CEC) - Welcoming note   |
| 9:10am - 9:20am -   | Dr. Richard Jove                     | Cell Therapy Institute - Welcoming note   |
| 9:20am - 9:40am -   | Dr. Vladimir Beljanski               | Stem cell based therapy for advanced cardiovascular diseases  |
| 9:40am - 10:00am -  | Dr. Shannon Murray                   | Reversal of tumor induced immune suppression for cancer therapy   |
| 10:00am - 10:20am - | Coffee break                         |   |
| 10:20am - 10:40am - | Dr. Adil Duru                        | Genetically modified immune cells for cancer immunotherapy  |
| 10:40am - 11:00am - | Dr. Manuel Salinas                   | Computational modeling and simulation analysis of bioreactors and its implications in engineered tissue formation |
| 11:00am - 11:30am - | Dr. Travis Craddock                  | Harnessing Multi-system Regulation to Identify Optimal Treatment Courses for Complex Chronic Illnesses            |
| 11:30am - 11:50am - | Dr. Wei Li                           | Artificial Intelligence Applied to Biomedical Research and Network Security                                       |
| 12:00pm - 1:00pm -  | Lunch (provided)                     |   |
| 1:00pm - 1:20pm -   | Dr. Yair Levy                        | Cybersecurity and Social Engineering  |
| 1:20pm - 1:40pm -   | Dr. Joe Lopez                        | Applying Molecular Biology and Genomics to Understanding the Deep Sea and Marine Organisms                        |
| 1:40pm - 1:50pm -   | Dr. Yair Levy                        | Concluding remarks  |