

**2022 International Institute for Nanotechnology Symposium**  
**Celebrating 20 Years of Big Thinking at the Nanoscale**  
Thursday, October 27, 2022  
White Auditorium

8:30 am – 9:00 am      **Registration Open** (*continental breakfast served*)

9:05 am – 9:20 am      Welcoming Remarks  
**Chad Mirkin**, Director, International Institute for Nanotechnology  
**Milan Mrksich**, Vice President for Research

**Session I – Nanotechnology's Importance to the World and Northwestern**

9:20 am – 9:25 am      Introduction  
Chad Mirkin, Director, International Institute for Nanotechnology

9:25 am – 9:50 am      **Vinayak Dravid**  
Abraham Harris Professor of Materials Science & Engineering  
Director, NU Atomic and Nanoscale Characterization Experimental Center

**Teri Odom**  
Joan Husting Madden and William H. Madden, Jr. Professor of Chemistry  
Chair, Department of Chemistry

9:50 am – 10:00 am      Q&A

**Session II – Nanotechnology and Regenerative Medicine**

10:00 am – 10:05 am      Introduction  
Evan Scott, Kay Davis Professor of Biomedical Engineering

**Guillermo Ameer**  
Daniel Hale Williams Professor of Biomedical Engineering, Professor of Surgery  
Director, Center for Advanced Regenerative Engineering and Regenerative Engineering  
Training Program

10:05 am – 10:30 am      **Samuel Stupp**  
Board of Trustees Professor of Materials Science, Chemistry, Medicine, and Biomedical  
Engineering  
Director, Simpson Querrey Institute for BioNanotechnology

10:30 am – 10:40 am      Q&A

10:40 am – 10:55 am      **BREAK**



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**Session III – Nanotechnology and Cancer**

10:55 am – 11:00 am Introduction  
Dr. Leonidas Plataniias, Director, Robert H. Lurie Comprehensive Cancer Center

11:00 am – 11:25 am **Priya Kumthekar**  
Associate Professor of Neurology & Medicine

**Alexander Stegh**  
Professor, Department of Neurosurgery and Research Director, Brain Tumor Center,  
Washington University School of Medicine in St. Louis  
Adjunct Professor of Neurology, Northwestern University

11:25 am – 11:35 am Q&A

**Session IV – Nanotechnology and Human Performance**

11:35 am – 11:40 am Introduction  
Joshua Leonard, Associate Professor of Chemical and Biological Engineering

11:40 am – 12:05 pm **John Rogers**  
Louis Simpson and Kimberly Querrey Professor of Materials Science & Engineering  
Director, Querrey Simpson Institute for Bioelectronics

**Shuai “Steve” Xu**  
Ruth K. Frenkel, MD, Assistant Professor of Dermatology  
Director of Medical Research, Querrey Simpson Institute for Bioelectronics

12:05 pm – 12:15 pm Q&A

**Session V – Nanotechnology Mimicking Living Systems**

12:15 pm – 12:20 pm Introduction  
Franz Geiger, Charles E. and Emma H. Morrison Professor of Chemistry

12:20 pm – 12:45 pm **Monica Olvera de la Cruz**  
Lawyer Taylor Professor of Materials Science & Engineering  
Director, Center for Computation & Theory of Soft Materials

**George Schatz**  
Charles E. and Emma H. Morrison Professor of Chemistry and Chemical & Biological  
Engineering

12:45 pm – 12:55 pm Q&A



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12:55 pm – 1:10 pm      Recognition of IIN Named Fellowship Awardees  
Chad Mirkin, Director, International Institute for Nanotechnology

Recognition of 2022 IIN Outstanding Researchers  
Chad Mirkin, Director, International Institute for Nanotechnology

1:15 pm – 2:15 pm      **Lunch Break**

**Session VI – Nanotechnology for Air and Water Security**

2:20 pm – 2:25 pm      Introduction  
Mercuri Kanatzidis, Charles E. and Emma H. Morrison Professor of Chemistry

2:25 pm – 2:50 pm      **William Dichtel**  
Robert L. Letsinger Professor of Chemistry

**Omar Farha**  
Charles E. and Emma H. Morrison Professor of Chemistry

2:50 pm – 3:00 pm      Q&A

**Session VII – Artificial Intelligence in Nanotechnology**

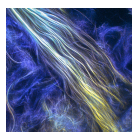
3:00 pm – 3:05 pm      Introduction  
Mark Hersam, Walter P. Murphy Professor of Materials Science & Engineering

3:05 pm – 3:30 pm      **Randall Snurr**  
John G. Searle Professor of Chemical & Biological Engineering  
Chair, Department of Chemical & Biological Engineering

**Chris Wolverton**  
Jerome B. Cohen Professor of Materials Science & Engineering

3:30 pm – 3:40 pm      Q&A

3:40 pm – 3:55 pm      **BREAK**



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**Session VIII – 2021 Kabiller Prize Winners**

- 3:55 pm – 4:00 pm Kabiller Awards Video and Kabiller Rising Star Introduction  
Shana Kelley, Neena B. Schwartz Professor of Chemistry and Biomedical Engineering
- 4:00 pm – 4:20 pm **Natalie Artzi, Kabiller Rising Star Award winner**  
Assistant Professor of Medicine, Harvard Medical School  
Principal Research Scientist, Institute for Medical Engineering & Science,  
Massachusetts Institute of Technology
- 4:20 pm – 4:30 pm Q&A
- 4:30 pm – 4:35 pm Kabiller Young Investigator Award Introduction  
Edward Hartley Sargent, Lynn Hopton Davis and Greg Davis Professor of Chemistry
- Bin Liu, Kabiller Young Investigator Award winner (IN ABSENTIA)**  
Distinguished Professor, Senior Vice Provost, National University of Singapore
- 4:35 pm – 4:40 pm Kabiller Award Winner Introduction  
Milan Mrksich, Vice President for Research
- 4:40 pm – 5:10 pm **David Walt, Kabiller Prize winner**  
Hansjörg Wyss Professor of Biologically Inspired Engineering, Harvard Medical School  
Professor of Pathology, Brigham and Women’s Hospital
- 5:10 pm – 5:20 pm Q&A
- 5:20 pm – 6:20 pm **Reception** (*Please join us for a reception outside of White Auditorium*)