

# 国家纳米科学中心

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尊敬的高明远老师：

您好，由中国国家自然科学基金委与以色列基金委共同支持，国家纳米科学中心承办的“中-以纳米生物材料和结构双边研讨会”兹定于 2008 年 10 月 27 日—10 月 28 日在北京召开。本次会议将由来自以色列的十八位专家学者以及国内相关领域的专家学者共同参加。希望通过会议的召开能够加强中以双方在纳米生物材料与结构研究方面的交流，推动双边的进一步合作。

感谢您接受我们的邀请参加本次会议并作会议报告。我们将承担您在北京会议期间的食宿以及国内交通费。敬请您于 2008 年 10 月 5 日之前将您的个人英文简历以及报告摘要发送至 [fengk@nanoctr.cn](mailto:fengk@nanoctr.cn)。再次感谢您对本次会议的支持！

此致

敬礼

王琛

国家纳米科学中心

二〇〇八年九月二十六日

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# **China-Israel Joint Symposium on Nanobiomaterials and Structures**

## **Program**

**Monday 27<sup>th</sup> October, 2008**

**(Note to the speakers:** Please prepare your presentation in 20 minutes, and leave 5 minutes for questions and discussions.)

08:10-08:30 Symposium Registration

08:30-08:40 Opening remarks addressed by Dr. Yinglan Zhang from National Science Foundation China & Dr. Ezra Shoshani from the Israeli Embassy to P.R.C.

**08:40-09:30 General Review** (chaired by Professor Dr. Junlin Yang from NSFC)

08:40-09:05 High light of Nano Technology Research in Israel  
Professor Ori Chesnovsky, Tel Aviv University

09:05-09:30 Recent Progress of Nano Technology Research in China  
Professor Chen Wang, National Center for Nanoscience and Technology, China (NCNST)

### **Session I Bioeffect of Nanomaterials**

#### **Part i Chairman: Professor Yechezkel Barenholz**

09:30-09:55 Cancer Nanotechnology: New Approach to Treat Cancer  
Professor Yuliang Zhao, Institute of High Energy Physics, CAS

09:55-10:20 Bioinspired Polydiacetylene Films  
Dr. Amir Berman, Ben-Gurion University Can Ferromagnetic

10:20-10:45 Nanoparticles Function as Enzyme  
Professor Xiyun Yan, Institute of Biophysics, CAS

**10:45-11:00 Coffee Break**

#### **Part ii Chairman: Professor Xianda Yang**

11:00-11:25 ATP Biosynthesis Driven by Molecular Motor FoF1-ATPase Assembled in Microcapsule  
Professor Junbai Li, Institute of Chemistry, CAS

11:25-11:50 Nano-Structured Biosynthetic Hydrogel Biomaterials Engineered for Regeneration and Tissue Engineering  
Professor Dror Seliktar, Faculty of Biomedical Engineering Technion – Israel Institute of Technology

11:50-12:15 Nano-C60 Sensitizes Chemotherapeutic Killing of Cancer Cells through Autophagy Modulation  
Professor Longping Wen, University of Science and Technology of China

**12:15-13:30 Lunch**

## **Session II Nanostructures for Medical Labeling and Characterization**

### **Part i Chairman: Professor Ori Chesnovsky**

13:30-13:55 Carbon Nanotubes Conjugated to Tumor Lysate Protein Enhance the Efficacy of an Anti-tumor Immunotherapy Magnetic Nanocrystals: from Preparations to Bio-applications  
Professor Xianda Yang, Peking Union Medical College, Beijing

13:55-14:20 An Electronic Antigen and Its Pair Antibody  
Professor Uri Sivan, Technion – Israel Institute of Technology

14:20-14:45 Magnetic Nanoparticles: Functional Tools for Bio and Clinical Applications  
Professor Hongchen Gu, Shanghai Jiaotong University

14:45-15:10 Semiconductor Nanocrystals as Tunable Fluorescent Materials and Their Use in Biological Sensing and Medical Labeling  
Professor Uri Banin, Hebrew University

**15:10–15:30 Coffee Break**

**Part ii                    Chairman: Professor Wei Liang**

- 15:30-15:55    Magnetic Nanocrystals: from Preparations to Bio-applications  
Professor Mingyuan Gao, Institute of Chemistry, CAS
- 15:55-16:20    Nanolayers Role in Tuning Semiconductors Electronic Properties and  
Probing Biomolecular Recognition Events  
Professor Shlomo Yitzchaik, Hebrew University
- 16:20-16:45    Nanotechnology for the Photodynamic Detection and Therapy of  
Cancer  
Professor Jiyao Chen, Fudan University
- 16:45-17:10    Self-organization of Complex Nanotube Patterns on Crystals Surfaces  
Dr. Ernesto Joselevich, Weizmann Institute

**18:00-20:00    Reception**

**Tuesday 28<sup>th</sup> October, 2008**

**Session III            Nano-Medicine**

**Part i                    Chairman: Professor Hongchen Gu**

- 08:30-08:55    Nanotechnology Employed to Circumvent Malignant Tumor  
Resistance to Chemotherapy  
Professor Xingjie Liang, NCNST
- 08:55-09:20    Liposomes as Nano- sized Micro-environments. Membrane- localized  
Photosensitization: Uptake, Topography and Photochemistry within  
Membranes  
Professor Benjamin Ehrenberg Bar Ilan University
- 09:20-09:45    Self-assemble Nanocarriers of Vinorebine with Pegylated Phospholipid  
for Enhancing Its Antitumor Activity in Vitro and In Vivo  
Professor Wei Liang, Institute of Biophysics

09:45-10:10 The Application of Nanoparticles to Antibacterial, Antibiofilms, and Antiviral Applications  
Professor Aharon Gedanken, Bar Ilan University

**10:10-10:30 Coffee Break**

**Part ii Chairman Professor Benjamin Ehrenberg**

10:30-10:55 The Therapeutical Potential of Pluripotent Stem Cells (ES or iPS) for Major Diseases  
Professor Duanqing Pei, Guangzhou Institute of Biomedicine and Health, CAS

10:55-11:20 Engineering of Nano & Micronscaled Particles for Biomedical Applications: Imaging, Targeting & Cancer Therapy  
Professor Shlomo Margel, Bar Ilan University

11:20-11:45 Polymeric Nanoparticles for siRNA Delivery  
Professor Jun Wang, University of Science and Technology of China

11:45-12:10 From Nanotechnology and NanoBio to Nano-drugs: Our Liposome Experience  
Professor Yechzkel Barenholz, Hebrew University

**12:10-13:30 Lunch**

**Session IV Nano-Bio Systems**

**Part i Chairman: Professor Aharon Gedanken**

13:30-13:55 Towards Artificial Genetic Systems On a Chip  
Dr. Roy Bar Ziv, Weizmann Institute

13:55-14:20 Towards a Bionic Eye: Carbon Nanotube Based Micro Electrode Arrays for Retinal Interfacing Applications  
Dr. Yael Hanein, Tel Aviv University

14:20-14:45 Artificial Photosynthesis:-An Alternative Way to Solve the Energy Problem  
Professor Chunhong Yang, Institute of Botany, CAS

14:45-15:10 Nanotechnology in Biological Membrane Environments  
Professor Raz Jelinek, Ben Gurion University

**15:10-15:30 Coffee Break**

**Part ii Chairman: Professor Jiyao Chen**

15:30-15:55 State-of-the-Science Electron Microscopy of Nanostructured Systems  
Professor Yeshayahu Talmon, Technion-Israel Institute of Technology

15:55-16:20 Single-molecule Studies of Amyloid  $\beta$  Peptide Folding and Molecular Binding Behavior by Using STM  
Professor Chen Wang, NCNST

16:20-16:45 Floating Tip Nanolithography  
Professor Yehiam Prior, Weizmann Institute

16:45-17:00 Closing Remarks  
Professor Ori Chesnovsky, Tel Aviv University  
Professor Chen Wang, NCNST

**17:30-19:00 Dinner**

**19:00-20:30 Roundtable Discussions on Future Cooperation**

**Tuesday 29<sup>th</sup> Lab Tour**

**Tuesday 30<sup>th</sup> City Tour**