



**Member Laboratories:**  
Cea iBiTec-S SCBM  
Cea iBiTec-S SIMOPRO  
Cnrs UMR 8076  
Cnrs UMR 8113  
Cnrs UMR 8122  
Cnrs UMR 8182  
Cnrs UMR 8612  
Cnrs UPR 2301  
Inserm UMR-S 769  
Inserm UMR-S 914  
Inserm UMR-S 981  
Inserm UMR-S 996  
Inserm UMR-S 999  
Inserm UMR-S 1012  
Inserm UMR-S 1030

**Coordinating Partner:**  
Campus Paris Saclay  
FONDATION DE COOPERATION SCIENTIFIQUE

**Partner Institutions:**



**Inserm**

Institut national  
de la santé et de la recherche médicale



ASSISTANCE  
PUBLIQUE HÔPITAUX  
DE PARIS



**GUSTAVE  
ROUSSY**  
CANCER CAMPUS  
GRAND PARIS

**Contact:**  
Dr. Rodolphe Fischmeister  
Coordinator LabEx LERMIT  
Inserm UMR-S 769  
Faculté de Pharmacie  
Université Paris-Sud  
5, Rue Jean-Baptiste Clément  
92296 Châtenay-Malabry Cedex  
France  
Tel.: +33-1-46.83.57.71  
Fax: +33-1-46.83.54.75  
rodolphe.fischmeister@inserm.fr  
[www.labex-lermit.fr](http://www.labex-lermit.fr)

## International Chair of Therapeutic Innovation

### PLENARY LECTURE

# Artificially Intelligent Nanotechnology for Non-Invasive Diagnosis

by

**Pr. Hossam Haick**

**Technion - Israel Institute of Technology, Israel**

**Date : vendredi 11 juillet 2014 à 14h30**

**Lieu :** Faculté de Pharmacie  
Salle AB 19/5  
5 rue Jean-Baptiste Clément  
Châtenay-Malabry

[http://www.pharmacie.u-psud.fr/fr/la\\_faculte/plan-d-acces.html](http://www.pharmacie.u-psud.fr/fr/la_faculte/plan-d-acces.html)

**Contact:** [aurelie.lando@u-psud.fr](mailto:aurelie.lando@u-psud.fr)

**Prof. Hossam Haick**

**The Department of Chemical Engineering and Russell Berrie Nanotechnology  
Institute, Technion – Israel Institute of Technology, Israel**



**Prof. Hossam Haick** received his B.Sc. and Ph.D. in Chemical Engineering from the Ben-Gurion University (1998) and Technion - Israel Institute of Technology (2002), respectively. After a postdoctoral period at the California Institute of Technology – Caltech, he moved back to Technion as an Assistant Professor in 2006. The research interests of Prof. Haick include nano-array devices for screening, diagnosis and monitoring of disease, nanomaterial-based chemical (flexible) sensors, electronic skin, breath analysis, volatile biomarkers, and molecule-based electronic devices. Prof. Haick has made a significant mark through his development of a nano-array technology to detect cancer, which earned him a wide variety of awards and grants, including the prestigious Marie Curie Excellence Award in 2006 and ERC Award in 2010. More recently,

Prof. Haick leads a European consortium of eight universities and companies for the development of advanced generation of nanosensors for screening, diagnosis and monitoring of lung cancer.

Prof. Haick has received several awards for his research, including a Knight of the Order of Academic Palms (Chevalier dans l'Ordres des Palmes Académiques), the MIT's Technology Review list of the world's 35 leading young scientists for 2008, the Horev Chair for Leaders in Science and Technology, the "Innovation and Entrepreneurship" Prize in Chemical Engineering, the Discovery Program Award of the Bill & Melinda Gates Foundation, the OXYGEN Prize, the Norman and Barbara Seiden Prize, the Israel-France Award for Academic Excellence, the Herschel Rich Innovation Award, the Minerva Short-Term Research Award, the Bergmann Award for Excellent Young Scientists, the CREATE Award, the Al-Qendil Prize, and the YMCA and Rotary Honorary Decorations. In addition, Prof. Haick was selected for the lists of "50 sharpest mind in Israel" of the TheMarker (2013), "Ten Most Promising Young Israeli Scientists" of Calcalist (2010), "Young Israelis of the Year" of the Jerusalem Post" (2010), "50 Leading Israelis for 2007" and "four saluted Israeli scientists" (2007) of Yedioth Aharonot. Other honors and awards include the Fulbright fellowship, 'Israel Ministry of Science and Technology' awards, Prof. Avrahami prize, and CNR-IMIP prize.

Besides his achievements in research, he received a wide variety of prizes for excellence in teaching (top 4%). Prof. Haick is the recipient of the prestigious "Yanai Prize for Academic Excellence". He also serves as an associate editor of the Journal of Translational Engineering in Health and Medicine, review editor of the Frontiers in Pharmacology of Anti-Cancer Drugs, and member of the editorial board of several peer-reviewed journals, such as Journal of Nanoscience Letters, Hybrid Materials, Dataset Papers in Physical Chemistry, and Frontiers in Respiratory Pharmacology. Prof. Haick serves as an advisory consultant to the Chemical Abstracts Service (CAS) – the world's authority for chemical information – and as a senior scientific advisory member of several national and international companies and institutes

During the last five years he published 182 articles in peer reviewed journals, 7 book chapters and 15 papers in conference proceedings, and issued 28 patents.