

Chemical Sensors for Breath Analysis

Overview

The Short Course explores chemical sensors in breath analysis provides and covers knowledge on chemical sensors, data analysis and breath analysis for lung cancer detection as well as established medical practices for lung cancer detection.

The main objective is to give an overview of the available technologies and current research with a focus on practical applicability and real life problems.

The short course is ideal for medical scientists, clinicians and industrialists who want to get a head start on chemical sensors in breath analysis, and for researchers and engineers who want to use their technology in lung cancer breath analysis.

Friday, June 14, 2013

Nir Peled	A Comprehensive Review of Lung Cancer - Understanding the unmet	09:00 - 10:30
	need in Lung Cancer diagnosis.	
	An overview on lung Cancer from clinical perspective emphasizing the unmet need in the diagnostic avenue. Challenges, practical issues and a wish list from the medical practitioner	
	Coffee break	10:30 – 10:45
Hossam Haick	Chemical Sensors	10:45 – 12:15
	Overview of chemical sensor technologies and their applicability to breath analysis. Advantage and disadvantages of the different technologies in breath analysis applications.	
	Lunch	12:15 – 13:45
Santiago Marco	Data Analysis for Chemical Sensors Introduction to data analysis for chemical sensors. Filtering, extraction, statistical methods, pattern recognition. Good practices and pitfalls.	13:45 – 15:15
	Coffee break	15:15 – 15:30
Jan Mitrovics	Practical examples and hands-on demonstration of chemical sensors and sensor arrays.	15:30 – 17:00
	Life demonstration of different chemical sensor systems	

Organizers:

Prof Santiago Marco Dr Jan Mitrovics

University of Barcelona, Spain JLM Innovation GmbH, Germany

Additional Lecturers: Prof Hossam Haick Dr. Nir Peled

Technion Institute of Technology, Israel Sheba Medial Center, Israel

For further information visit: <u>www.olfactionsociety.org/course/breath2013</u> or contact Dr Jan Mitrovics (<u>jan.mitrovics@jlm-innovation.de</u>)



Connecting biology & technology