

## Special Seminar in Bioengineering:

# “MicroLiver Technologies: Design and Application of Metabolic Programming”

**Yaakov Nahmias, Ph.D.**  
**Director, Center for Bioengineering**  
**The Hebrew University of Jerusalem, Israel**

August 1, 2011

10:00 AM – 11:00 AM

Location: 215 Shillman

Host: Prof. Shashi Murthy



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### **ABSTRACT**

My group is focused on the development of high throughput microfabricated platforms for the study of liver development, regeneration, and metabolism. We are interested in Metabolic Programming: understanding how liver cells process information and make metabolic decisions. Our goal is to control patient's metabolism using this approach. We look toward the development of the next generation of drugs for the treatment of metabolic diseases such as diabetes, obesity, and atherosclerosis.

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### **SPEAKER BIOGRAPHY**

Dr. Yaakov Nahmias received his B.Sc. in Chemical Engineering and Biology from the Technion, Israel Institute of Technology, graduating Magna Cum Laude. He completed his PhD at the University of Minnesota with Prof. David Odde, and his postdoctoral training at Harvard Medical School with Prof. Martin Yarmush. In 2006, he became an independent investigator at Harvard Medical School, winning a prestigious NIH Research Scientist Career Award (K01). In 2009, Dr. Nahmias moved to the Hebrew University of Jerusalem, where he won a major ERC Starting Grant. In 2010, Nahmias became a Golda Meir Fellow and a Panel Member of the ERC Starting Grant (LS9 – Biotechnology). He is the editor of Microdevices in Biology and Medicine and the founder of the Methods in Bioengineering conference series. His work is published in the leading journals of the field including: Nature Protocols, Proceedings of the National Academy of Sciences, Nature Medicine, and Nature Biotechnology. Dr. Nahmias is the head of the microLiver Technologies ( $\mu$ LT) Laboratory with over \$5.2 million in independent research funding. As of 2010 he is serving as the Director of the Center of Bioengineering in the Service of Humanity at the Hebrew University of Jerusalem, and the head of its Bioengineering Program.

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