

Bringing

Discovery to Life

Scientist Biography



Alla Reznik, PhD.

Scientist
Canada Research Chair in Physics
of Molecular Imaging

EDUCATION

- Masters degree, 1985, Kiev State University, Radio-Physics Department, Kiev, Ukraine
- Post-Graduate Courses, 1991, National Academy of Sciences of Ukraine, Institute of Semiconductor Physics, Kiev, Ukraine
- Ph.D. degree, 2000, Technion - Israel Institute of Technology, Physics Department, Haifa, Israel
- Post-doctorate, 2003, University of Toronto, Department of Medical Biophysics, Toronto, Canada

APPOINTMENTS AND AFFILIATIONS

- Assistant Professor, Department of Physics, Lakehead University; 2008-Present
- Research Associate, Imaging Research Group, Sunnybrook Health Sciences Centre; 2004-2008
- Senior Physicist, Physics Department, GE Medical Systems Functional Imaging, Israel; 2000-2003
- Researcher, Solid State Institute, Technion, Israel; 1995-1997
- Researcher, Department of Theoretical and General Physics, Kiev Polytechnic Institute, Ukraine; 1986-1994

RESEARCH AREAS OF FOCUS

Dr. Reznik has been investigating the properties of wide band-gap semiconductors for more than 15 years. She is an expert in photoconducting materials for x-ray and gamma-ray detector application.

In the last five years Dr. Reznik has been actively collaborating with NHK Science & Technical Laboratories (Japan) on the development of the solid state technology for a new generation of Positron Emission Tomography (PET) imagers based on amorphous selenium avalanche photosensors.

The goal of this research is to improve sensitivity for cancer detection, enabling diagnosis in the early stages of cancer. As part of the Thunder Bay Regional Research Institute team Dr. Reznik will continue to work on the development of advanced radiation imaging detectors for a variety of biomedical applications, beginning with breast cancer.

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