

# Prof. Dr. Baianu Ion

(August 18, 1947 - February 10, 2013

66 years



Ion Baianu, 65, of Urbana Illinois passed away at 8:40 p.m. on Sunday, February 10, 2013 at his residence.

He was **born** August 18, 1947 in T. Logresti Romania to parents Constantine and Simona Baianu. On May 12, 1979 he married Kimiko Saito and had two children, Christina Baianu of San Francisco California and Stephen Baianu of Los Angeles, California.

## **Education:**

- 1964 - 1969 Faculty of Medicine and Pharmacy of Bucharest, University of Bucharest, Bucharest Physics.
- 1971 – 1974 Biophysics, Queen Elizabeth College, University of London, London Physics.
- 1980 - 2011 College of ACES & College of Engineering, University of Illinois at Urbana-Champaign, Urbana FSHN and NPRE Departments.

Prof. Ion Baianu attended the University of London, received his PhD and was Senior Fellow at The Cavendish Laboratory-University of Cambridge 1977-1979, Permanent Convocation Member of London University Senate, Member of the A.R. Academy of Arts and Sciences.

He was also a Professor of Food Chemistry at the University of Illinois at Champaign-Urbana, United States of America for thirty years.

[Prof. I. C. Baianu - InTech Open Access Publisher - Open Science ...](http://www.intechopen.com/profiles/32540/i-c-baianu)

<http://www.intechopen.com/profiles/32540/i-c-baianu>

## **Research Interests:**

Physical chemistry of foods, Near Infrared/ MidIR and High-Resolution NMR for quality improvements; NIR and Fluorescence Microspectroscopy developments for Biotechnology, Plant Genomics, FT-NIR/ IR chemical imaging applications to metabolic studies, oncogenesis, cancers and related biochemistry. In addition, he made research contributions to structure determinations of proteins and membranes by NMR, X-ray/Neutron Diffraction, and FT-IR/NIR and hyperspectral techniques, including cross-correlation spectroscopy techniques.

Dr. Baianu **enjoyed** teaching at both undergraduate and graduate levels; his classes focused on applications of physical chemistry in foods and food process engineering as well as biochemical, molecular and biophysical aspects of cancers and heart disease prevention.

In his spare time he enjoyed art museums, painting, music, chess, walking and traveling.

**Experience:**

- 1977 - 1979 [University of Cambridge](#)

Magnetic Resonance and structural studies of noncrystalline solids, spin-wave excitations in disordered solids and quantum theory of electrons in solids.

- 1980 - current [University of Illinois at Urbana-Champaign](#)

NMR and FT-NIR/IR Micro- and nano- spectroscopy and Chemical Imaging early detection of cancer cells, tumors, Alzheimer' s disease, developing embryos, protein activity, translational genomics and interactomics, cell signaling in cancers, agricultural biotechnology, nano-materials and single molecule detection and imaging.

**Publications: (the most important)**

- Book Chapter: **Translational Oncogenomics and Human Cancer Interactomics: Advanced Techniques and Complex System Dynamic Approaches** by I. C. Baianu in the book "[Bioinformatics - Trends and Methodologies](#)" edited by Mahmood A. Mahdavi, ISBN 978-953-307-282-1, InTech, November 11, 2011
- [Special Issues | Journal of Obesity & Weight Loss Therapy | OMICS ...](#)  
<http://omicsgroup.org/journals/specialissue-obesity-weight-loss-therapy-open-access.php> - 74k - Cached - Similar pages.

Materials provided by Prof. Dr. Ruxandra Vidu (18-X-2013)  
and Dr. Carmen Sabau (22-IX-2014).