

## INVITED LECTURE, MONDAY 16 JUNE 2014

11:00 – 11:30

### HOW DIAGNOSIS AND MANAGEMENT OF LUNG DISEASES CAN BENEFIT FROM ADVANCED SPACE TECHNOLOGIES



#### **Mariano Bizzarri, PhD, M.D.**

Professor of Biochemistry in the Department of Experimental Medicine, University *La Sapienza*, Roma, Italy

Email: [mariano.bizzarri@uniroma1.it](mailto:mariano.bizzarri@uniroma1.it) – [mariano.bizzarri@asi.it](mailto:mariano.bizzarri@asi.it)

Phone: +39 06 49766603 – 06 856781-04 mobile ph.: +39-3386125188

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**Mariano Bizzarri PhD, M.D.** is Associate Professor of Biochemistry in the Department of Experimental Medicine the University *La Sapienza*, in Roma (Italy). He is visiting professor at the State University of Tomsk (Russia). Graduate *magna cum laude* in 1980 of the University of Roma, La Sapienza, Faculty of Medicine. He was appointed as member of the Italian Space Agency (ASI) Scientific Committee in 2005 and he was elected President of that Committee in 2011. He is a co-founder of the *Italian Society for Space Biomedicine and Biochemistry* (2006) and the ASI Telemedicine program (Telesal, 2006). He is head of the Interdepartmental Systems Biology Center ([www.sbglab.org](http://www.sbglab.org), 2009), member of the Space Research Interdepartmental Center of the University La Sapienza (CRAS), and of the Life Science Board of the European Space Agency. Prof. Bizzarri is the Editorial Director of *Space Magazine* ([www.spacemagazine.it](http://www.spacemagazine.it)), and member of the Editorial board of several scientific, peer-reviewed journals . He has authored hundreds of scientific and philosophical essays, as well as of dozen of scientific and popular books.

Professor Bizzarri's main research fields can be summarized as follows:

- Tumor microenvironment
- Systems Biology approach in the integrative understanding of cell and tumour biology
- Proteomic and metabolomic analysis of cells in microgravity
- Cytoskeleton and fractal shape analysis in Biology and in Space Biology
- Biophysical study of complex systems in Biology
- Fractal and mathematical integrative analysis of biological and clinical images and dynamics data
- Development of micro-electronic sensor devices in biochemistry and clinical settings