

## *Curriculum Vitae*

Ubaldo Bottigli graduated at Pisa University on 1976 on high energy physics.

- 1977-1981 Fellow CNEN and Pisa University
- 1981-1988 Junior Researcher at Pisa University
- 1988-1991 Associated Professor of Medical Physics at Cagliari University.
- 1991-2000 Associated Professor of Medical Physics at Pisa University.
- 1995-1997 Applied Physics National Scientific Committee Coordinator of the Pisa Section of INFN (National Institute of Nuclear Physics )
- 1996-1997 Paid Scientific Associated at CERN (European Center of Nuclear Research)
- 1997-2000 Director of the Health Physics School at Pisa University
- 2000-2005 Full Professor of Physics at Sassari University.
- 2002 Applied Physics National Scientific Committee Coordinator of the Cagliari Section of INFN (National Institute of Nuclear Physics)
- 2003-2008 President of the Applied Physics National Scientific Committee of INFN (National Institute of Nuclear Physics )
- 2005 Full Professor of Medical Physics at Siena University.

Ubaldo Bottigli has participated to some high energy physics experiments and medical physics collaborations with increasing responsibilities. From 1990 Ubaldo Bottigli has started, in exclusive way, an experimental activity in physics applied to the medicine and biology, the main topics have been:

- innovative software (neural networks and algorithms) for computer aided diagnosis in cardiology, mammography, and pneumology;
- development of digital imaging techniques based on semiconductor detectors. The improvement with respect to the standard film plus screen method being the much lower contrast attainable;
- production and transport of monochromatic x-ray beams for biomedical imaging;
- ionizing radiation damages on cryopreserved cells.