

## PROFESSOR CLAUDIO FRANCESCHI

### CURRICULUM VITAE

MD cum laude, Alma Mater Studiorum University of Bologna (UNIBO), Italy (1967). Full Professor of Immunology at the Universities of Padua (1980-86), Modena (1986-1998) and UNIBO from 1998 until Oct 31st 2013. At present Professor Emeritus at UNIBO and Associate member of the IRCCS Institute of Neurological Sciences of Bologna, Bellaria Hospital, Bologna, Italy. Founder and Director of the Interdepartmental Center for Studies on Bioinformatics and Biocomplexity "Luigi Galvani", UNIBO (2001-2006; 2012). Director of the Department of Experimental Pathology, UNIBO (2010-2012). Scientific Director of Italian National Research Center for Aging (INRCA, IRCCS) (1996-2005), a public national institution of the Italian Ministry of Health devoted to aging research and care of the elderly (7 geriatric hospitals in Italy, 1500 total employees, 400 researchers and MDs and a research Department of Gerontology in Ancona, Italy). Professor Franceschi has published more than 720 papers on peer reviewed journals which, according to Google Scholar, received a total of 46102 citations (July 2017), h-index: 103 (July 2017). MAJOR RESEARCH ACHIEVEMENTS: i) discovery of the most important characteristics of immunosenescence in humans (accumulation of memory T cells, shortage of naive T cells, shrinkage of T cell repertoire, activation of innate immunity, role of CMV infection); ii) conceptualization of the "remodelling theory of aging", "inflammaging" and "liquid immune self", "immunobiography"; iii) pioneering studies on immune response and stress throughout evolution, from invertebrates to humans; iv) pioneering studies on genetic, epigenetic, metabolomic, metagenomic, glycomic studies of human longevity on centenarians (100+), semi-supercentenarians (105+) and their offspring as a model of successful aging and longevity; v) identification of nuclear genes and mtDNA polymorphisms associated to human longevity, Alzheimer disease and type 2 diabetes (T2D); vi) identification of new biomarkers of aging (gut microbiota; N-glycans; DNA methylation of ELOVL2 gene; inflamma-miRs; metabolomic and lipidomic markers).

COORDINATOR of the following European large collaborative projects:

1. PROPAG-AGEING (Aging and Parkinson disease, 2015-2019; 6M€);
2. ADAGE (Alzheimer disease within an aging perspective; 2016-2018; 1.4 M€);
3. NUAGE (New dietary strategies for the elderly, 2011-2016; 9M€);
4. GEHA (GEnetics of Healthy Aging, 2004-2010; 7.2M€).

PARTNER/WP LEADER of the following European projects:

1. PROTEOMAGE (Proteomics and aging, 2006-2011; 492K€);
2. RISTOMED (Nutrition and healthy aging, 2008-2011; 234K€);
3. MARK-AGE (Biomarkers of human aging, 2008-2013; 606K€);
4. MYOAGE (Age-related muscle weakness, 2008-2012; 563K€);
5. MIMOMICS (Advanced statistics of genomics and aging, 2012-2016);
6. IDEAL (Developmental determinants of aging and longevity, 2011-2016; 660K€);
7. COBRA (FP7, HIV and aging, 2012-2016; 491K€);
8. MISSION-T2D (Immune System Simulator for T2D, 2012-2015; 330K€);
9. HUMAM (iPS from centenarians and T2D patients fibroblasts to produce hepatocytes and beta cells, 2013-2017; 514K€);
10. MYNEWGUT (diet, physical activity and gut microbiome changes lifelong, 2015-2018; 262K€)

NESTLÉ INSTITUTE OF HEALTH SCIENCE SPONSORIZED PROJECT:

PRO-AGE (Omics for Frailty, 2015-2018; 190K)

MEMBERSHIPS TO EDITORIAL BOARDS OF INTERNATIONAL JOURNALS:

1987- present Aging Clinical and Experimental Research (Associate Editor);  
1997-present Experimental Gerontology;  
1998-present Mechanisms of Ageing and Development;  
2002- present Aging Research Reviews;  
2009-present AGING (USA);  
2013-present Aging Cell.

AWARDS/PRIZES:

- February 2005: Award for research on Human Longevity by Associazione PROFUTURA, Bologna;
- June 2006: Leadership and Excellence Award at the 4th International Bologna Meeting on Affective, Behavioural, and Cognitive Disorders in the Elderly;
- August 2008: Laurea Honoris Causa in Medicine, Universidad Nacional de Córdoba (Argentina);
- March 2012: Annual Hayflick Lecturer 2012, University of Alabama at Birmingham's Center for Aging;
- June 2012: The Oxygen Club of California Award: Aging Research Award;
- August 2013: Honorary Professorship in Immunology, University of Nottingham, UK.