

## **Antonio Lanzavecchia, MD**

*Date of birth:* October 9, 1951

*Nationality:* Italian, Permanent resident of Switzerland

*Current position:*

Director, Institute for Research in Biomedicine

Professor, D-BIOL, ETH-Zürich

*Institutional address:*

Institute for Research in Biomedicine

Università della Svizzera italiana

Via Vincenzo Vela 6

6500 Bellinzona, Switzerland



### **Education**

1970 Liceo classico, Varese, Italy

1970 Almo Collegio Borromeo, University of Pavia, Italy

1976 Medical Doctor with honors, University of Pavia, Italy

1979 Specialist in Pediatrics, University of Pavia, Italy

1982 Specialist in Infectious Diseases, University of Pavia, Italy

### **Positions**

1981-1987 Assistant Professor, University of Genoa, Italy

1983-1990 Member of the Basel Institute for Immunology, Basel, Switzerland

1987-1998 Associate Professor of Immunology, University of Genoa, Italy

1990-1999 Permanent Member of the Basel Institute for Immunology, Switzerland

1999-2006 Visiting Professor, University of Siena, Italy

1999-date Director, Institute for Research in Biomedicine, Bellinzona, Switzerland

2009-date Professor of Human Immunology, ETH Zurich, Switzerland

### **Research activities**

T and B cell cloning and T-B cooperation / Antigen capture, processing and presentation / T cell targeting with bispecific antibodies / HLA polymorphism, T cell restriction and alloreactivity / Formation and stability of peptide-MHC complexes / Allelic exclusion and dual-receptor T and B cells / Monocyte-derived dendritic cells / Toll like receptors in dendritic cell and B cell activation / T cell activation and differentiation / The cellular basis of immunological memory / Broadly neutralizing antibodies and vaccine design / Affinity maturation and antibody diversification.

### **Memberships**

European Molecular Biology Organisation (EMBO)

Italian Society for Immunology

The Henry Kunkel Society

Royal College of Physicians

Swiss Society for Allergology and Immunology, honorary member

American Society for Immunology, honorary member

Swiss Academy of Medical Sciences, honorary member

U.S. National Academy of Sciences, foreign associate

### **Honors**

EMBO gold medal, 1988

Cloëtta Award, 1999

Cavaliere della Repubblica, 2001

Premio Ercole Pisello, 2014

## Editorial activities

1997-2005 Board of Reviewing Editors, Science, USA  
1989-2005 Editorial Board and Executive Committee Member, Eur. J. Immunol.  
1992-2006 Advisory Editor, Journal of Experimental Medicine  
2005-present Corresponding Member, Annual Review of Immunology

## Selected patents

Potent T Cell Modulating Molecules (US2004/0162411 A1)  
Monoclonal antibody production by EBV transformation of B cells (WO2004076677)  
Human cytomegalovirus neutralizing antibodies and use thereof (WO2008084410)  
Neutralizing anti-influenza virus antibodies and uses thereof (WO2010010467)  
Methods for producing antibodies from plasma cells (WO2010046775)

## Selected lectures

Art Stern Memorial Lecture, The Wistar Institute, Philadelphia, 1995  
Wellcome Visiting Professorship, St. Jude, Memphis, 1999  
Heremans Lecture, University of Brussels, 2000  
Grabar Lecture, French Society for Immunology, 2000  
The NIH Wednesday Afternoon Lecture, Bethesda, 2000  
Arthur Levin memorial Lecture, Guy's King's St. Thomas, London, 2000  
The Henry G. Kunkel Lecture, Johns Hopkins University, Baltimore, 2002  
The Jack Pepys Lecture, British Society for Immunology, 2002  
The Henry G. Kunkel Lecture, Rockefeller University, New York, 2007  
The Dan Campbell Memorial Lecture, Asilomar, 2009  
The Charles A. Janeway Jr. Memorial Lecture, Yale University, 2009  
The Kishimoto Foundation Lecture, Osaka University, 2012  
The the 19th annual Norman Heatley Lecture, Oxford, 2012  
The Eberly Distinguished Lectureship in Immunology, University of Pittsburg, 2014

## Appointments

2005-2013 Scientific Advisory Board Member, Centre d'Immunologie Marseille Luminy  
2006-2014 Scientific Advisory Board Member, Istituto Nazionale di Genetica Molecolare  
2006-2009 Scientific Director, IDI-IRCCS, Roma  
2004-present Co-founder and Chief Scientific Advisor, Humabs BioMed, Bellinzona  
2014-2016 President, Fondazione per la Ricerca Biomedica, Regione Lombardia

## Current funding

ERC, BROADimmune: Structural, genetic and functional analyses of broadly neutralizing antibodies against human pathogens (2015-20)  
BMGF, Development of a nanoparticle RSV-MPV vaccine candidate (2014-17)  
NIH, HIVRAD, Defense-in-depth against mucosal HIV clade C invasion (2016-21)  
BMGF, Generation of novel HIV bnAbs from lymph node B cells (2014-17)  
SNSF-SINERGIA, Tuning of immune homeostasis by viral infections (2013-16)  
EU-H2020, EHVA, European HIV vaccine alliance (2016-19)  
EU-IMI, ABIRISK: Anti-Biopharmaceutical Immunization (2012-17)  
EU-FP7, ADITEC: Advanced Immunization Technologies (2011-16)

**Publications** n = 304; total citations = 76607; h-index = 121; i10-index = 263  
<http://scholar.google.com/citations?user=lcq610IAAAAJ&hl=en>