BIOGRAPHICAL DATA FORM

Name and degree Dr. Marc Van Montagu

Born 10 November 1933

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PRESENT POSITION

- Emeritus Professor Ghent University
- Founder and Chairman of IPBO Institute for Plant Biotechnology Outreach, Ghent University

ACADEMIC EDUCATION

- M.Sc. Chemistry; Organic Chemistry (Ghent University, 1955)
- PhD, Organic Chemistry/Biochemistry (Ghent University, 1965)

PRESENT FUNCTIONS IN FUNDAMENTAL & APPLIED RESEARCH

- Advisor to the Flemish Institute for Biotechnology (VIB), Ghent, Belgium
- Member of the Agriculture Food Security and Climate Change Joint Programming (FACCE-JPI)
 Stakeholder Advisory Board, EU
- Chairman of the Scientific Advisory Panel of Futuragene
- Member of the Scientific Advisory Board of ITV Instituto Tecnológico Vale (Brazil)
- Member of the Scientific Committee of CTC Centro de Tecnologia Canavieira S.A (Brazil)

PRESENT FUNCTIONS IN SCIENCE POLICY

- President of BSBA (Black Sea Biotechnology Association)
- President of the Public Research & Regulation Initiative (PRRI), Delft, Holland and Brussels Belgium
- · Selection Committee Member, L'Oréal-UNESCO "For Women in Science", Paris, France
- Selection Committee Member, "Balzan Prizes", International Balzan Foundation, Milan, Italy
- UNIDO Goodwill Ambassador for Agrobussiness
- Member of the Executive Board of the European Federation Biotechnology (EFB)
- Goodwill Ambassador for EFB

FORMER EDUCATIONAL FUNCTIONS

Director of the Bureau d'Étude, Technical School for the Nuclear Industry, Mol, Belgium (1956-1960)

FORMER UNIVERSITY FUNCTIONS

• Full Professor ('gewoon hoogleraar'), molecular genetics, Ghent University, Belgium (until retirement on October 1, 1999)

- Director of the Department of Genetics, Flanders Institute for Biotechnology (VIB), Belgium (until retirement on October 1, 1999)
- Part-time professor at the Free University of Brussels (VUB) (until 1989)

FORMER FUNCTIONS IN FUNDAMENTAL & APPLIED RESEARCH

- Founder, Scientific Director and member of the Board of Directors of Plant Genetic Systems N.V., 1982 - 1996
- Founder and Member of the Board of Directors of CropDesign (Belgium), 1998 2004
- Member od the SAC (Science Advisory Committee) the IITA (International Institute of Tropical Agriculture) (Idaban, Nigeria), 1989-1995
- Chair, Scientific Advisory Committee Danforth Center (St. Louis USA), 1999 2010
- Scientific Advisor to Tibotech (Belgium)
- Scientific Advisor to Extracta (Rio de janeiro, Brazil), 1998-2008
- Member of the Science Board of Alellyx (São Paulo, Brazil), 2003-2009
- Biotechnology advisor to ICARDA (Interantional Center for Agriculture Research in Dry and Arid Areas) (Aleppo, Syria)
- Scientific advisor to CIB-CSIC (Centro de Investigaciones Biologicas), Madrid, Spain.
- Member of the Board of Governors and of the Scientific Advisory Board of the Weizmann Institute of Science, (Rehovot, Israel), 2001-2010
- Member of the SAC (Science Advisory Committee) of the Institute of Molecular Biology and Biotechnology (Heraklion, Crete)
- Member of the International Advisory Board at King Abdulaziz University (Jeddah, Kingdom of Saudi Arabia), 2010-2012
- Member of the Board of Directors of Avesthagen (Bangalore, India), 1999 2010
- Member of the council of Scientific Advisor of the International Center for Genetic Engineering and Biotechnology (ICGEB), Trieste, Italy, up to 2013

FORMER FUNCTIONS IN SCIENCE POLICY

- President Internationa Concil of Science (ICSU), Paris (1986-1988)
- Chair of Cobiotech/ACOGEB, ICSU Bodies for Biotech Research (1996-2003)
- Board of Trustees of IITA (Ibadan, Nigeria)(1991-1996)
- Selection Committee Member, 'King Baudouin International Development Prize' (1990-1998)
- Advisory Board (EGLS) of EU Commissioner Ph. Busquin, DG Science and Technology, European Commission, Brussels, Belgium (2000-2004)
- President of EFB (European Federation of Biotechnology) central office Barcelona, Spain (2003-2015)
- Belgian Representative in the Biosciences Steering Panel of EASAC- (The European Academies Scientific Advisory Council). Leopoldina Academy, Halle, Germany

HONORS

- Baron, title granted by Baudouin I, King of the Belgians 1990
- Foreign Associate, The National Academy of Sciences of the USA 1986
- Belgian Royal Academy of Sciences 1987
- Academia Europea 1989
- Agricultural Academy of Russia 1991
- The Academy of Engineering of Sweden 1992
- Agricultural Academy of France 1992
- The Royal Academy of Overseas Sciences, Belgium -1997
- Italian Academy of Sciences dei XL 1998
- American Academy of Microbiology 1999
- Third World Academy of Sciences (TWAS) 2001
- Foreing correspondent, Brazilian Academy of Sciences 2013
- Doctor Honoris Causa of the Universities of Helsinki (Finland) -1990; Compiegne (France) 1995; Rio de Janeiro (Brazil) -1997; Liege (Belgium) 1997; Brussels ULB (Belgium) -1997; Habana (Cuba) 1999; Sofia (Bulgaria) 2004; and UIMP, Santander (Spain) 2015.
- Francqui Chair at the Catholic University of Louvain, Faculty of Medicine (Belgium) -1971- 1972; Free
 University of Brussels, Faculty of Medicine (Belgium) 1986 -1987; and Catholic University of Louvain,
 Faculty of Sciences (Belgium) 1994 1995

- Theodor Bücher Medal (FEBS) 1999
- Iran Agriculture Gold Medal 2015

PRIZES

- Rank Prize for Nutrition (The United Kingdom) 1987
- IBM-Europe Prize (France) -1988
- The Charles Leopold Mayer Prize (Academy of Sciences, France) 1990
- Dr. A. de Leeuw-Damry-Bourlart Prize (five yearly prize of the belgian national fund for scientific research) - 1990
- Japan Prize (Japan) 1998
- Genome Valley Excellence Award 2009 (BioAsia, India) 2009
- The World Food Prize 2013

ACHIEVEMENTS

Fundamental Research

- Discovery of the gene transfer mechanism between agrobacterium tumefaciens and plants
- Pioneering contributions on plant gene discovery and regulation
- Major contributions in the studies of plant molecular mechanisms of response to abiotic stresses (high light, ozone, cold, salt and drought)
- Major contributions in the identification of arabidopsis genes involved in growth, development and flowering (cell cycle)

Applied Research

- Development of methods to alter agrobacterium into an efficient delivery system for gene engineering in plants
- Founder of two start-up biotech companies Plant genetic Systems (PGS) and Crop Design)
- Construction of the first plants producing the Bt (bacillus thuringensis) insecticide (at PGS)
- Construction of the first herbicide tolerant plants (at PGS)
- Engineering of poplar trees with improved pulping qualities (altered lignin composition)
- Included in Reed Exhibitions' list of the Top 100 Living Contributors to Biotechnology
- Included in the 2015 Scientific American Worldview of the 100 visionaries who continue to reshape biotechnology and the world

Education

 Education of more than 100 PhD students, several of them now occupying leading positions in plant biotechnology research, business or management all over the world

Publications

- Scientific journals with review process: 623; Chapters in books and proceedings of conferences with review process: 256; Journals without review process: 248. (Total list of publications downloadable at: http://ipbo.vib-ugent.be/team/marc-van-montagu)
- Ranked as the most cited scientist in the field of Plant & Animal Science until 2004
- The totality of the scientific publications has received more than 50.000 citations h-index: 125