

PIET BORST

CURRICULUM VITAE

25.01.2010

Name : BORST, Piet
Present position : Staff member of The Netherlands Cancer Institute
Birth date : July 5th, 1934
Birth place : Amsterdam, The Netherlands
Nationality : Dutch
Sex : Male
Married to : Jinke C.S. Houwing (since 1957)
Children : Sophie Regine (born 1960)
: Jacob Gerard Gerbrant (born 1961)
: David Wessel Marc (born 1966)
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Education:

1946-1952 Barlaeus Gymnasium, Amsterdam
1952-1958 &
1961-1962 Medical studies, University of Amsterdam
1958-1961 Trained as biochemist in the Laboratory of Physiological Chemistry (now Laboratory of Biochemistry), University of Amsterdam, under the supervision of Prof. E.C. Slater
1961 PhD (cum laude), University of Amsterdam
1963 MD, University of Amsterdam
1963-1964 Additional training in molecular biology in the Biochemistry Department of New York University under the supervision of Prof. S. Ochoa.

Major research interests: Gene expression in eukaryotes; biogenesis of cell organelles; antigenic variation in trypanosomes; multidrug resistance in cancer cells.

Positions held:

1958-1961 Research assistant, Laboratory of Biochemistry, UvA *
1963-1964 Post-doctoral research fellow, Biochemistry Department, New York University
1964 Senior Research assistant, Laboratory of Biochemistry, UvA
1965-1969 Associate-professor of Physiological Chemistry, UvA
1966-1983 Head of the Section for Medical Enzymology, Laboratory of Biochemistry, UvA (since 1973 named Section for Medical Enzymology and Molecular Biology)
1969-1974 Professor of Physiological Chemistry, UvA
1972-1980 Director of the Institute of Animal Physiology, UvA
1974-1983 Professor of Biochemistry and Molecular Biology, UvA
1979-1981 Chairman of the Laboratory of Biochemistry, UvA
1983-1999 Research Director of the Netherlands Cancer Institute, Amsterdam
1983-2005 Professor of Clinical Biochemistry, UvA (part time)
1987-1999 Chairman Board of Directors of The Netherlands Cancer Institute -Antoni van Leeuwenhoek Hospital, Amsterdam
1999- Staff member of The Netherlands Cancer Institute

* UvA = University of Amsterdam

Major awards

- 1963 Rockefeller Foundation Fellowship
- 1981 Royal Dutch/Shell-prize for the Life Sciences (Netherlands)
- 1984 Paul-Ehrlich und Ludwig-Darmstaedter Prize, Germany (shared with Prof. George Cross)
- 1984 F.M.V.V. Prize of the Dutch Federation of Medical Scientific Societies
- 1989 Howard Taylor Ricketts Award of the University of Chicago, USA
- 1990 Dr. G. Wander award of the Wander Foundation in Bern, Switzerland
- 1990 Gold medal of the Genootschap voor Natuur-, Genees- en Heelkunde in Amsterdam
- 1992 Dr. H.P. Heineken prize for biochemistry and biophysics of the Royal Netherlands Academy of Sciences
- 1992 Gold medal of the Robert Koch Foundation in Cologne, Germany
- 1993 Prof.dr P. Muntendam prize of the Dutch Cancer Society
- 1999 Commander in the Order of the Dutch Lion, Amsterdam
- 1999 Silver Medal of merit of the City of Amsterdam
- 1999 Medal of the University of Amsterdam for exceptional contributions to the university
- 2000 Hamilton Fairley Award for Clinical Research, European Society for Medical Oncology, Hamburg.
- 2003 Honorary degree of Leiden University
- 2007 The distinguished Service Award, awarded at the Miami Nature Biotechnology Winter Symposium, Miami Beach, Florida, USA.
- 2007 Honorary Commander of the British Empire (CBE)
- 2007 Honorary degree (Doctor of Laws) of the University of Dundee, Scotland

Membership of academies

- 1978 Royal Netherlands Academy of Arts and Sciences
- 1983 Hollandsche Maatschappij der Wetenschappen (the second Dutch academy)
- 1986 Foreign member of the Royal Society of Great Britain
- 1989 Academia Europaea
- 1991 Foreign associate National Academy of Sciences, Washington, U.S.A.
- 1995 Foreign honorary member of the American Academy of Arts and Sciences, U.S.A.

Lectures at (recent) major symposia, special lectureships, etc.

- 2003 28th Meeting of the FEBS, lecture: “Antigenic variation in *Trypanosomes*”, Istanbul, Turkey, October 20-25.
- 2003 4th FEBS Advanced Lecture Course, lecture: “The MRP family”, Gosau, Austria, March 1-8.
- 2003 International Summer School on “Molecular Mechanisms in Homeostasis and Disease”, lecture: “Mechanisms of antigenic variation in parasites”, Spetses, Greece, August 29 – September 8.
- 2003 International Summer School on “Molecular Mechanisms in Homeostasis and Disease”, lecture: “ABC Transporters in Health and disease”, Spetses, Greece, August 29 – September 8.
- 2004 The 24th International Symposium of the Sapporo Cancer Seminar Foundation: “Pharmacogenetics in Cancer Chemotherapy: Recent Advances in ABC Transporters and Analyses”, lecture: “MRP2, 3, 4 and 5 in health and disease”, Sapporo, Japan, June 20-22.
- 2005 1st Pharmaceutical Sciences Fair & Exhibition, lecture: “Multidrug resistance proteins: versatile transporters of anionic drugs and metabolites”, Nice, France, 12-17 June.
- 2005 30th FEBS Congress & 9th IUBMB Conference, lecture: “Multidrug resistance proteins: versatile transporters of anionic drugs and metabolites”, Budapest, Romania, July 2 – 7.
- 2005 GRC on Multidrug Efflux systems, lecture: “Mammalian multidrug resistance proteins: versatile transporters of anionic drugs and metabolites”, Oxford, UK, August 28 – September 1.
- 2006 FEBS Special Meeting, lecture: “How important are drug transporters in drug resistance of real tumors?”, Innsbruck, Austria, March 4-10.
- 2006 Gordon Research Conference: “Host –Parasite Interactions”, lecture: “Base-J and gene regulation in *T. brucei*”, Salve Regina University, Newport, USA, June 25 – 30.
- 2006 International Summer School 2006. ”Molecular and Cell Biology at Spetsai: Past, Present and Future –

- A Forty Years' Anniversary", lecture: Molecular genetics of antigenic variation in trypanosomes and other eukaryotic parasites." Spetsai, Greece, September 1-5.
- 2006 Symposium "20 years MDR1", lecture: "MDR of a real tumor caused by Pgp", Bethesda, USA, 20 September.
- 2007 Miami 2007 Winter Symposium "Innate immunity and novel vaccines", lecture : "Immune Evasion by Trypanosomes", Miami, USA, January 27-31.
- 2007 International Summer School 2007: "Molecular mechanisms of regeneration from stem cells to organ development, function and regeneration", lecture: "Mechanisms of drug resistance in tumors: "The role of apoptosis resistance and of tumor stem cells", Spetses, Greece, September 1-7.
- 2007 The 8th Int. ISSX Meeting, lecture: "The role of MRPs in the Cellular Efflux of glucuronides: studies with KO mice." Sendai, Japan, October 9-12.
- 2008 2nd FEBS Special Meeting: "ABC Cassette (ABC) Transporter Proteins: From Multidrug Resistance to Genetic Diseases", lecture: "A realistic mouse tumor model to assess the contribution of ABC transporters to MDR in cancer", Innsbruck, Austria, March 5.
- 2008 19th Annual Molecular Parasitology Meeting, Marine Biological Laboratory (MBL), keynote lecture: "J, etcetera", Woods Hole, USA, September 24.
- 2009 KNAW Symposium "Does peer review still have a future?" Column: "It could be worse", Royal Netherlands Academy of Arts and Sciences, Amsterdam, Netherlands, November 30.

Editorial functions:

- 1972-1982 Editor Biochimica et Biophysica Acta
- 1978-1983 Editor Plasmid
- 1979-1988 Advisory Editor International Review of Cytology
- 1980- Advisory Editor Laboratory Techniques in Biochemistry and Molecular Biology
- 1981-1983 Editor EMBO Journal
- 1982-1987 Managing Editor Biochimica et Biophysica Acta
- 1983-1988 Associate Editor of Cell
- 1985- Editor Trends in Genetics
- 1986-1988 Member Editorial Board of Nucleic Acids Research
- 1986- Member Editorial Board of Molecular and Biochemical Parasitology
- 1989-1992 Editor The New Biologist
- 1990- Member Editorial Board Current Opinion in Genetics and Development
- 1990-1995 Advisory Editor European Journal of Cancer
- 1993-1999 Member Board of Reviewing Editors Science
- 1993-1996 Member Editorial Board The FASEB Journal
- 1993- Columnist NRC Handelsblad
- 1997- Member Editorial Board Drug Resistance Updates
- 1999- Member Genome Biology Advisory Board.
- 2000-2004 Member Editorial Board Proc. Natl. Academy of Sciences, USA

Membership of international professional organizations

- 1974- Member European Molecular Biology Organization (EMBO)
- 1986- Member American Association for Cancer Research
- 1989- Member of the Human Genome Organization
- 1994- Member European Biomedical Research Association

Major Dutch advisory and organizational functions

- 1973-1977 Member FUNGO council
- 1977-1979 Member of the "Commissie belast met het Toezicht op de Genetische Manipulatie" (The Dutch Recombinant Advisory Committee)
- 1978-1983 Member Selection Committee Beyerinck Medal
- 1978-1983 Member Selection Committee Dr. H.P. Heineken Prize
- 1979-1982 Member of the ad-hoc Committee Recombinant DNA (the Dutch Recombinant Advisory Committee)

- 1981-1984 Member Evaluation Committee Biotechnology of the Dutch Organization for the Advancement of Pure Research (ZWO)
- 1981-1987 Member of the Scientific Council of the Royal Academy for the Fight Against Cancer
- 1989-1992 Member of the Medical Research Council of the Netherlands Scientific Research Organisation (NWO-gebiedsbestuur voor de medische wetenschappen)
- 1996 Member of the International Evaluation Committee Dutch Research Councils (NWO)
- 1999- Member Board Sylvia Tóth Foundation
- 2000-2001 Member “Committee Knowledge/Infrastructure Genomics” to advise the Minister of Economic Affairs (Economische Zaken) and Education, Culture and Science (OC &W)
- 2001-2002 Health Council Committee on stem cells for transplantation (Gezondheidsraad); chairman
- 2005 Member NWO Taskforce National Programme for Investments in Large Scale Research Facilities 2005
- 2007- Member “Innovation Platform”, a small think tank chaired by the Dutch prime-minister
- 2007- Member Comité van Aanbeveling Wetenschapsoriëntatie Nederland (WON)
- 2008- Member Advisory Board Bionanoscience

Major international scientific and organizational functions

- 1978-1984 Elected Member EMBO Council (1982-1984 vice chairman)
- 1985-1991 Member of the Scientific Advisory Committee of the EMBL, Heidelberg (1988-1991, chairman)
- 1985-1990 Member of the Scientific Advisory Committee Basel Institute for Immunology
- 1986-1993 Member Scientific Advisory Board Research Institute of Molecular Pathology, Vienna
- 1991-2004 Member of the Scientific Committee of the Foundation Louis Jeantet, Genève (since 1997 president)
- 1992-1998 Member of the Scientific Committee of the Swiss Institute for Experimental Cancer Research (ISREC), Epalinges/Lausanne
- 1994-2000 Member of the Scientific Advisory Committee of the Imperial Cancer Research Fund, London
- 1999-2005 Member Scientific Advisory Board of the Zentrum für Molekulare Biologie, Heidelberg
- 2000-2005 Member External Scientific and Strategic Committee (CEOSS) Institut Pasteur, Paris (since 2004 chairman)
- 2000-2006 Member Supervisory Board Schering A.G., Berlin
- 2004-2008 Chairman Scientific Advisory Board Fritz-Lipmann Institut (formerly IMB), Jena
- 2005- Member Science Advisory Group London Research Institute Lincoln’s Inn Fields Laboratories,
- 2005- Member Board of Scientific Governors of The Scripps Research Institute, USA.
- 2006- Chairman Scientific and Clinical Advisory Board Agendia, Amsterdam.

Search committees directors international institutes

- 2004-2005 Research Institute of Molecular Pathology (IMP), Vienna (chair)
- 2004-2008 Fritz-Lipmann Institut (formerly IMB), Jena (chair)
- 2005 Institut Pasteur, Paris