

Professor Dr. Per Brandtzaeg

Per BRANDTZAEG

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Biographical Sketch

Professor Per Brandtzaeg obtained his postgraduate training in microbiology, immunology and pathology at the Medical Center, Univ. of Alabama at Birmingham, AL, USA (1962-64) and received his PhD in immunology at the Univ. of Oslo (1971). He is the former Head of the *Faculty Division, Rikshospitalet University Hospital, Oslo*, and the founder (1965) of the *Laboratory for Immunohistochemistry and Immunopathology (LIIPAT)*, Institute and Department of Pathology, which is devoted to research on mucosal immunity. He is also the founder (2001) of a thematic research network called the *Center for Vaccinology and Immunotherapy (CEVI)* at the University of Oslo, with a focus on basic mechanisms of importance for active and passive immunization. In 2007, CEVI obtained status as a *Center of Excellence* funded by the Research Council of Norway. Professor Brandtzaeg's main research interest is in the immunobiology and immunopathology of mucous membranes. He obtained the top score of leading European scientists in the field of mucosal immunology in a worldwide peer judgement carried out by the US National Academy of Sciences *Immunology Benchmarking Panel* in 1998, and has been one of Norway's most cited researchers over the last two decades. He has received several major national and international science awards, and is Commander of the Royal Norwegian Order of St. Olav.

Brief Curriculum Vitae

Personal data

Born 9 June 1936 in Bergen, Norway.

Degrees and Research Profile

Postgraduate training in microbiology, immunology and pathology (MS), Med. Center, Univ. of Alabama at Birmingham, AL, USA (1962-64). PhD in immunology, Univ. of Oslo (1971). Research interest: basic mucosal immunology and immunopathology; chronic mucosal inflammation, allergy and immunodeficiency; and malignant and reactive disorders of mucosal and peripheral lymphoid tissue.

Personal Research Prizes

13 awards, including the Robert-Feulgen Prize (Göttingen, 1980); the Besredka Prize in Mucosal Immunity (Paris, 1984); AMICON Med. Res. Prize (Antwerp, 1987); Anders Jahre's Nordic Senior Med. Res. Prize (Oslo, 1988); Acta Otolaryngol. Prize for Outstanding Res. (Salzburg, 1995); Norwegian Res. Council's Prize for Outstanding Res. (Oslo, 1998); the Fridtjof Nansen Award for Outstanding Res. (Oslo, 2003); Swedish Dental Society's Internat. Prize (Stockholm, 2003); Rikshospitalet's Prize for Outstanding Res. (Oslo, 2004); Garnet Immunoglobulin Prize of Czech Immunologic Soc. (Prague, 2006); Fernström Foundation Nordic Prize (Lund, 2014).

Awards for Research Funding

12 awards, including Res. Team Support from Res. Council of Norway, 1992 (NOK 2.5 mill) and 1998 (NOK 2.4 mill); Medinnova Innovation Prize, 1997; Res. Prize of the Univ. of Oslo, 1998 (NOK 1.5 mill); Team Support from Rikshospitalet, 2002 (NOK 600 000), 2004 (NOK 1.0 mill), and Helse Sør/Rikshospitalet, 2005 (NOK 910 000); and 2006 (NOK 1.7 mill).

Other Distinct Honours

Some 25 international honorary lectures. Honorary Prof., Old Univ. of Herborn, Germany, 1984; Honorary Doctor, Univ. of Århus, Denmark, 1991; Audience of King Harald 5 of Norway, 1996; Medal of the Faculty of Med., Univ. of Oslo, 1998; Guest of Honour, 4th Internat. Symp. Tonsils and Adenoids, Ghent, Belgium, 1999; Honorary Doctor, Univ. of Bergen, Norway, 2000; Honorary Doctor of Medicine, Freie Universität Berlin, Germany, 2000; Commander of the Royal Norwegian Order of St. Olav, 2006; Audience of King Harald 5 of Norway, 2006; Distinguished Sci. Achievement Award, Soc. Mucosal Immunology, 2009.

Elect and Honorary Memberships

Swedish Soc. for Gastroenterol. (*hon.*); Norwegian Soc. for Pathol. (*hon.*); Norwegian Dental Assoc. (*hon.*); Norwegian Soc. for Immunol. (*hon.*); Norwegian Soc. for Allergology and Immunopath. (*elect*); Norwegian Acad. of Sciences and Letters (*elect*); Royal Norwegian Soc. for Science (*elect*); Deutsche Akademie der Naturforscher Leopoldina (*elect*).

Professional Activities and Academic Appointments

1962-1964	Graduate student for MSc degree in medical microbiology and immunology, Dept. of Microbiology, Med. Center, Univ. of Alabama at Birmingham, AL, USA.
1964-1967	Career Res. Awardee of the Univ. of Oslo, Oslo, Norway.
1965-1976	Leader of Laboratory for Immunohistochemistry, Dept. of Pathology, Rikshospitalet, Oslo.
1967-1973	Res. Fellow, Norwegian Cancer Society.
1971	Ph.D. in immunology, Univ. of Oslo.
1974-1976	Ass. Prof. of Microbiology, Faculty of Dentistry, Univ. of Oslo.
1974-1976	Consultant in Immunohistochemistry, Dept. of Pathology, Rikshospitalet, Oslo.
1977-1982	Assoc. Prof. of Pathology, Faculty of Med., Univ. of Oslo, Rikshospitalet.
1983-2006	Prof. of Pathology, Faculty of Med., Univ. of Oslo, Rikshospitalet.
1977-2006	Head, Lab. for Immunohistochemistry and Immunopathology (LIIPAT), Dept. of Pathology, Rikshospitalet, Oslo.
1990-2004	Chairman, Inst. of Pathology, Faculty of Med., Univ. of Oslo, Rikshospitalet, Oslo.
1997-2003	Head of Dept. Group for Laboratory Med., Rikshospitalet University Hospital, Norwegian Radium Hospital and Akershus University Hospital, Faculty of Med., Univ. of Oslo.
2002-2004	Thematic Res. Leader, 'Centre for Vaccinology and Immunotherapy' (CEVI), Faculty of Med., Univ. of Oslo.
2004-2006	Head, Faculty Division, Rikshospitalet Univ. Hosp., Faculty of Med., Univ. of Oslo.
2006-present	Professor, Department of Pathology, Oslo University Hospital, Rikshospitalet.

Editorial Boards

Has served as Managing Editor for Scand. J. Immunol. and on the Editorial Board of 8 other international journals. Served as referee for ~80 different international journals, including *Nature* and *Science*.

Additional Administrative and Academic Activities

1972-1974	Board member, Inst./Dept. of Pathology, Rikshospitalet, Oslo.
1975	Board member, Dental Faculty, Univ. of Oslo.
1978-2004	Board member, Inst. of Pathology, Rikshospitalet, Oslo.
1978-1981	Board member, Univ. Library, Oslo.
1977-1982	Member of Budget Committee of the Faculty of Med. at Rikshospitalet, Univ. of Oslo.
1982-1984	Chairman of same Budget Committee.
1979-1990	Deputy Board Member, Faculty of Med., Univ. of Oslo.
1981-1982	Chairman, Organizing Committee for founding the Norwegian Soc. for Immunology.
1982-1986	President of the Norwegian Soc. for Immunology.
1986-1988	Member of Review Group for Immunology, Microbiology, Pathology and Anatomy, RMF, Norwegian Res. Council for Science and the Humanities (NAVF).
1986-1992	Board member of the Scandinavian Soc. for Immunology.
1987-2004	Consultant, Allergenlab, Nycomed Pharma AS, Oslo (from 1998, AS Med-Lab, Fürst Medical Laboratory, Oslo).
1988-1993	Member of Res. Committee, Faculty of Med., Univ. of Oslo.
1989-1990	Board Member, Faculty of Med., Univ. of Oslo.

1989-1993 Deputy Chairman of Res. Committee, Faculty of Med., Univ. of Oslo.

1989-1995 Chairman, Board of Biotechnology Centre in Oslo.

1989-1993 Member of the Project Managing Group on Basic Research on AIDS, Commission of the European Communities.

1989-1998 Member of University Planning Committee for a new Rikshospital.

1990-1993 Councillor, International Soc. for Mucosal Immunology.

1990-2006 Chairman, Board of Phototechnical Dept., Univ. of Oslo, Rikshospitalet, Oslo.

1990 Consultant, MEDOC1 (winning architectural project for a new Rikshospital).

1990-93 Member of Steering Group for HIV/AIDS Research Programme, RMF, Norwegian Res. Council for Science and the Humanities (NAVF).

1990-1992 President of the Scandinavian Soc. for Immunology.

1990-1995 Member of Res. Committee, Medical Innovation (Medinnova), Rikshospitalet, Oslo.

1990-1997 Deputy Board Member, Dept. Group for Laboratory Med., Rikshospitalet and the Norwegian Radium Hospital.

1991-1993 Deputy member of the Collegium's Committee for Scientific Education, Univ. of Oslo.

1991-1993 Member of Board and Steering Group, RMF, Norwegian Res. Council (NAVF).

1991-1993 Chairman, Review Group for Immunology, Microbiology, Pathology and Anatomy, RMF, Norwegian Res. Council (NAVF).

1991-1993 Chairman, Steering Group for Research on SIDS, Norwegian Res. Council (NAVF).

1992-1996 Network Leader, European Med. Res. Council (EMRC) Clinical Network for Gastroenterological Immunology.

1992-1993 President-Elect, Internat. Soc. for Mucosal Immunology.

1994-1996 President, Internat. Soc. for Mucosal Immunology.

1994-2003 Chairman, Group X (Medicine), Norwegian Academy of Sciences and Letters.

1995 Member of Panel 6, Evaluation of Medical Research in Lithuania, Res. Council of Norway.

1997-2006 Deputy Board Member, Centre for Med. Studies, Moscow (Faculty of Med., Univ. of Oslo).

1997-2002 Member of Advisory Board to the Collegium, Univ. of Oslo.

1997-2003 Member of Steering Board, Faculty of Med., Univ. of Oslo.

1998-2002 Member of the European Concerted Action Programme PASSCLAIM (Process for the Assessment of Scientific Support for Claims on Foods), EU and ILSI Europe.

2000-present Member of Scientific Advisory Board, MucoVax BV, Polsbroek/Leiden, The Netherlands.

2002-present Member of Scientific Advisory Board, Lactrys (a spin-out company from TNO Prevention and Health), Leiden, The Netherlands.

2003-present Member of Scientific Advisory Board, Eurocine AB, Karolinska Science Park, Stockholm.

2004 Member of Programme Planning Committee for Global Health Res., Res. Council of Norway.

2004-2006 Member of the joint Research Committee, Rikshospitalet-Radiumhospitalet/Medical Faculty.

2006-present Member of International Advisory Board, Mucosal Immunity and Vaccine Centre (MIVAC), Sahlgrenska Academy and Univ. of Göteborg, Sweden.

2007-2011 Member of Scientific Council, Inst. Pasteur, Paris, France.

2008-2011 Member of Advisory Board of the EU project MetaHIT.

2008-present Member of the Supervisory Board of the German DFG/BMBF Cluster of Excellence "Inflammation at Interfaces".

2010-2011 Member of the Scientific Committee of the Forward Look Initiative "Gene-Environment Interaction in Chronic Disease", European Science Foundation.

2010-present Member of the Norwegian Scientific Committee for Food Safety, Panel on Genetically Modified Organisms.

2012-present Member of the Scientific Advisory Board for the Laboratory of Excellence (Labex) for Inflammatory Diseases (INFLAMEX), Paris.

Evaluation Boards

Member of several faculty committees. Has evaluated some 20 doctoral dissertations and many applications for academic positions in Norway and abroad. Has served as consultant to: Res. Council of Norway; Internat. Life Science Inst. (ILSI) Europe; National Health and Med. Res. Council of Australia; National Science Foundation, Washington; Danish Med. Res. Council; Med. Res. Council of Canada; Med. Res. Council (MWO) and Technology Foundation STW, The Netherlands; Schweizerischer Nationalfonds zur Förderung der wissenschaftlichen Forschung; German Federal Ministry of Science, Education, Res. and Technology (BMBF); WellBeing, Health Res. Charity for Women and Babies, UK; Wellcome Trust, UK; Med. Res. Council (MRC), UK; Austrian Science Fund (FWF); Internat. Scientific Panel for Evaluation of the MEXP Unit of Christian de Duve Inst. of Cellular Pathology, Brussels (1998); Intelligence Strategy Organization (ISO), Health Care Group®, Westport, CT; Swedish Foundation for Strategic Res.; German Res. Council; Inst. Pasteur and AERES, France; Broad Med. Res. Program, Broad Foundation, USA.

Postgraduate Teaching and Invited Lectures

Supervised 40 PhD students with completion of doctoral dissertations. Participated in organization of some 50 international meetings and chaired approx. 150 sessions. Given approx. 400 teaching contributions at postgraduate courses and 835 invited lectures for various universities and scientific societies, in addition to numerous brief reports and poster presentations.

Publications

2 theses, 8 monographs, 132 chapters, 617 full refereed articles (396 original primary papers and 221 reviews), 98 brief scientific communications, 198 various articles in newspapers etc., and approx. 750 abstracts. Over the last two decades one of the leading Norwegian scientist on the Google Scholar list with more than 44,800 citations in total (**h-index** = 110, after 2011 increased **h-index** 49). Many articles have appeared in internationally high-rated journals such as: *Nature* (8), *Nature Rev Immunol* (1), *Science* (1), *Lancet* (7), *Nature Immunol* (2), *J Clin Invest* (2), *J Exp Med* (6), *Gastroenterology* (20), *Am J Resp Crit Care Med* (3), *Immunol Rev* (2), *Blood* (6), *Immunol Today/Trends Immunol* (8), *Gut* (30), *PNAS, USA* (2), *Nature Rev. Gastroenterol. Hepatol.* (2), *Arthritis Rheum* (1), *Thorax* (1), *Mucosal Immunol* (4), *Allergy* (3), *Am J Pathol* (6), *J Immunol* (23), *JBC* (4), *J Virol* (1) and *Eur J Immunol* (13).