



Biosketch

Arne Stensvand

Date of birth: 20. November 1962

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Degrees:

1989: Cand. agric., horticulture, Norwegian University of Life Sciences (NMBU)

1994: Dr. scient., plant pathology, NMBU

Academic career:

1989-1993: Doctoral student, plant pathology, NMBU/NIBIO

1993-2002: Researcher at NIBIO

2002 to present: Senior researcher (full professor level) at NIBIO

2003-2004: Director of research at NIBIO

2005 -2011: Research manager/group leader at NIBIO

2008 -2016: Adjunct professor (prof. II, 10% teaching appointment) in plant pathology at Department of Plant Sciences, NMBU

2017 to present: Professor (50% position) in plant pathology at Department of Plant Sciences, NMBU

2010-2011: Research leader for Fruit and Berry research at NIBIO, 30% position

2012: Research leader and Department chair at Department of Plant Pathology at NIBIO

2013-2015: Research leader and Department chair at Department of Fungal Diseases at NIBIO

Professional memberships:

1. The American Phytopathological Society
2. Nordic Association of Agricultural Scientists
3. North American Strawberry Growers Association

Participated in the following COST-actions:

1. COST-Action 836, Integrated berry production (1998-2002)
2. COST-Action 863, Euroberry research: From genomics to sustainable production, quality and health (2005-2008)

Long-time visits at foreign research institutions:

1. 1986-87 (12 months): Exchange student, North Carolina State University, Department of Horticulture, USA
2. 1990 (1 month): Mycology course at Centraalbureau voor Schimmelcultures, Baarn, The Netherlands
3. 1991-92 (12 months): Doctoral student at Cornell University, New York State Agricultural Experiment Station (Geneva), Department of Plant Pathology, USA
4. 2000 (3 months): Research visit at Cornell University, New York State Agricultural Experiment Station (Geneva), Department of plant Pathology, USA

Administrative and international responsibilities:

1. Member of the board for integrated fruit production for eastern Norway, 1991-1993
2. Member of the board (treasurer) of the researchers union at Bioforsk, 2000-2003

3. Coordinator of the working group Plant protection in sustainable strawberry production, under section IV (Plant Protection) of the Nordic Association of Agricultural Workers (NJF), 2000-2010; group convener for scientific workshops in the Nordic and Baltic countries with three year intervals.
4. Coordinator of the subgroup Pome fruit diseases, part of the working group Integrated protection of fruit crops, IOBC/WPRS, 2005 to present; group convener for scientific meetings in Avignon, France (2008), Hasselt, Belgium (2011), Stellenbosch, South Africa (2014), Thessaloniki, Greece (2016), Jurmala, Latvia (2016).
5. Various positions as research leader, department (section) head, and research director at NIBIO.
6. Member of the board for Department of Plant and Environmental Sciences at NMBU, 2005-2010
7. Expert member of COST - Food and Agriculture Domain Committee (appointed by the Norwegian Research Council), 2008 - 2015
8. Editorial work: Member of the editorial board of Acta Agriculturae Scandinavica Section B Soil & Plant Science, 2009-2016; Associate editor for European Journal of Plant Pathology, 2012 to present; Associate editor for Plant Disease, 2013-2015
9. Referee for the following journals: Phytopathology (USA), Plant Disease (USA), European Journal of Plant Pathology (The Netherlands), Journal of Phytopathology (Germany), Journal of Agricultural and Food Chemistry (USA), Agriculturae Conspectus Scientificus (Croatia), BioControl (The Netherlands), Australian Journal of Agricultural Research (Australia), Australasian Plant Pathology (Australia), Crop Protection (USA), Acta Agriculturae Scandinavica (Sweden), Journal of Plant Diseases and Protection (Germany), PLOSone (USA)
10. Referee for project proposals for "Miljøstyrelsens program for Bekæmpelsesforskning" (Denmark, 2004), Evaluation of COST project for Département fédéral de l'intérieur DFI, Secrétariat d'Etat à l'éducation et à la recherche SER (Switzerland, 2007), "Forskningsrådet Formas" (Sweden, 2008), Expert committee for evaluation of proposals for COST- projects (Belgium, 2009), Project reviewer for Ministry of Science and Technological Development, the Republic of Serbia (2012-2016), Reviewer for the National Research Foundation of South Africa (2015).

Research and extension work:

Main responsibilities: Research, teaching and advisory (extension) of fungal diseases in top fruit (tree fruits), small fruit (berries) and ornamentals. My work has included basic and applied research to improve disease management in Norwegian fruit and ornamental production. The main diseases/crops I have been working on are apple scab (*Venturia inaequalis*), pear scab (*Venturia pirina*), grey mould (*Botrytis cinerea*) and powdery mildews in several crops, brown rot (*Monilinia laxa*) in sweet cherry, anthracnose (*Colletotrichum* spp.) in sweet- and sour cherry, apple and strawberry, *Phytophthora* diseases in strawberry and raspberry, and fungal diseases of Christmas trees and cut foliage. The emphasis has been on biology and epidemiology of the parasitic fungi and to develop integrated control measures. Through various projects, I cooperate with scientists in other groups at NIBIO and NMBU. In field trials, I also cooperate closely with various grower advisory groups throughout the country and internationally. I have worked closely together with a research group at Cornell University, USA, since 1991, focusing on apple scab and powdery mildews in strawberry, roses and other greenhouse crops. This collaboration is currently extended to include research collaboration with University of Florida and the Lighting Research Center at Rensselaer Polytechnic Institute. NIBIO has an emphasis on applied research, and an important part of my responsibility has been knowledge transfer to growers and the advisory services. Bioforsk has a national responsibility for research support for the agricultural industry and for the food safety authorities. Thus, I have given lectures at numerous courses, meetings and field days for growers, advisors and plant inspectors. From 2017, I have a split appointment between NIBIO and NMBU (50 % at each).

Teaching/student advisory

1. Courses: Teaching at several courses in plant pathology and plant protection at NMBU from 1993 to present, at BSc, MSc and PhD levels.
2. Supervisor (local or main supervisor) for 12 MSc and 8 PhD students from 1994 to present

3. Opponent/evaluator for 10 PhD candidates in Norway, Sweden and Denmark from 1994 to present

Project participation

Project manager for 18 externally financed projects from 1994 to present

Participation in selected relevant projects over the recent 5 years as work package leader/task leader/cooperator:

1. EUBerry: The sustainable improvement of European berry production, quality and nutritional value in a changing environment; EU project call FP7-KBBE-2010-4, 2011-2013; Project Director: Bruno Mezzeti, Universita Politecnica Delle Marche (Ancona)
2. Friske epletre som grunnlag for auka norsk fruktproduksjon (Healthy apple trees as a basis for increased Norwegian fruit production); financed by the Foundation for Research Levy on Agricultural Products, and the fruit industry, 2013-2015; Project Director: Jorunn Børve, NIBIO
3. An energy dynamic Norwegian greenhouse industry (VeksthusDynamikk); financed by Foundation for Research Levy on Agricultural Products, and the greenhouse industry, 2013-2016; Project Director: Hans R. Gislerød, NMBU
4. Plant quality adapted to a modern and sustainable Norwegian strawberry and apple industry (PlantQuality); financed by Foundation for Research Levy on Agricultural Products, and the fruit industry, 2013-2016; Project Director: Anita Sønsteby, NIBIO
5. SMARTCROP - Innovative approaches and technologies for Integrated Pest Management (IPM) to increase sustainable food production; financed by the Bionær program, Research Council of Norway; Project Director: Ingeborg Klingen, NIBIO
6. Strategic management of multiple diseases in strawberry nurseries and production fields in the eastern U.S.; financed by Specialty Crops Research Initiative (SCRI/USDA), 2015 to 2019; Project Director: Natalia Peres, University of Florida; participants from 7 US states and Norway
7. The novel use of light to suppress a broad group of plant pathogens affecting sustainable production of organically grown crops; financed by Organic Agriculture Research and Extension Initiative (OREI/USDA), 2015-2018; Project Director: David M. Gadoury, Cornell University
8. TreHelse: Trehelse i steinfrukt (Trea health in stone fruit); financed by Foundation for Research Levy on Agricultural Products, and the fruit industry, 2015-2015; Project Director: Jorunn Børve, NIBIO
9. GoodBerry: Improving the stability of high-quality traits of berry in different environments and cultivation systems for the benefit of European farmers and consumers, 2016-2019; financed through EU/Horizon 2020 Sustainable Food Security; Project Director: Sonia Osorio, University of Malaga, Spain
10. OptiBær: Optimalisert strategi for bruk av plantevernmidler i norsk bærproduksjon (Optimized use of pesticides in Norwegian berry production), 2016-2019; financed by The Research Council of Norway; Project Director: Jan K. Henriksen, Norwegian Agricultural Extension Service.

Number of publications

1. Peer reviewed journals: 75
2. Other international scientific publications (published proceedings and meeting abstracts from oral and poster presentations, etc.): 137
3. Published oral or poster presentations at Nordic or national meetings: 93
4. Miscellaneous reports/books/book chapters: 15
5. Extension publications (in grower journals, leaflets, etc.): 307