

CURRICULUM VITAE

1. Full names

Tammisola, Jussi Markku.

2. Date and place of birth

Born 25 Feb. 1944 Lappeenranta, Finland.

3. Current position

Senior Research Advisor (Biotechnology), since June 1997

Ministry of Agriculture and Forestry, Food and Health Department

Unit of Plant Production and Animal Nutrition

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4. Education and training

- D.Sc.(Agr.& For.) in Plant Breeding, Univ. of Helsinki, Jan. 1989
- Lic.Phil. in Genetics (grade¹: excellent), Univ. of Turku, Apr. 1973
Additional levels²:
 - botany (laudatur; grade: excellent),
 - mathematics (cum laude approbatur; grade: excellent),
 - biochemistry (cum laude approbatur; grade: good),
 - chemistry (approbatur; no grades applied),
 - statistics (approbatur; grade: lubenter¹)
- MSc (Genetics), Univ. of Turku, Nov. 1970
- BSc (Genetics), Univ. of Turku, Feb. 1968
- Matriculation (grade: laudatur), Jyväskylän normaalilyseo (a high school),
May 1962

Molecular Biology

- Plant Molecular Biology Course for Research Scientists, Univ. of Helsinki,
15 May - 2 Jun. 1989
- Exchange scholarship on Application of Biotechnology in Agriculture,
The Bulgarian Academy of Sciences 5-9 Jun. 1989
- Introductory Workshops on Techniques in Molecular Biology (Microbiology,
Nucleic Acids, Proteins), Hatfield Polytechnic, UK, 4-12 Sep. 1989

¹ Grade denotes the superiority of performance. From highest to lowest the grades in use for levels are: 'excellent', 'good' and 'fair'. Regarding the approbatur level, no grades are usually applied but in case of a highly excellent performance, the notation 'lubenter' may be added. According to an alternative system (pertaining to degrees) the quality evaluations are: 'laudatur', 'eximia cum laude approbatur', 'magna cum laude approbatur', 'cum laude approbatur', 'non sine laude approbatur', 'lubenter approbatur' and 'approbatur'.

² The most advanced level in graduate studies is 'laudatur', the medium one is 'cum laude approbatur' and the lowest level is 'approbatur'

Applied Mathematics

Laudatur-level courses in Applied Mathematics (Prof. O.Hellman, Univ. of Turku, Mar. 1971):

- Numeric analysis and EDP (grade 2+/3)
- Operation analysis (grade: 3/3)
- Stochastic processes (grade: 3/3)

Systems Analysis and Computing

- Parallel Architectures (Dr. Ramesh K. Agarval, Wichita State Univ.), CSC Scientific Computing Ltd, Espoo, Finland, 30-31 May 1995
- Intensive course in C programming language, INSKO, 6-8 Apr. 1992
- Introduction into UNIX, VTT, 6 Feb. 1992
- Design of program packages, Finnish State Comp. Centre (FSCC), Feb. 1975
- Partitioning into runs and files, FSCC, 3-4 Feb. 1975
- Introduction in EDP systems analysis, FSCC, 20-21 Jan. 1975
- DOS/OS -functions, IBM, 3-6 Sep. 1974
- PL/I-programming (OS), IBM, 13-21 May 1974

Informatics

- Scientific and Technical Network (STN) Commands, VTT 17 Mar. 1995
- Introduction to Online Searching in STN, VTT 28 Feb. 1995
- Statistical Systems Course, Central Statistical Office of Finland 20-24 May 1974

Languages

- Pro gradu examination in Finnish (grade: laudatur), Univ. of Turku, July 1970
- Ability to write and speak Swedish, Finnish National Committee for Domestic Languages, Apr. 1995
- Pro exercitio examination in German, Univ. of Helsinki, May 1987
- Pro exercitio examination in English, Univ. of Jyväskylä, Mar. 1974

5. Other professional appointments

University of Helsinki

- Associate Professor of Plant Breeding, 1997-

Boreal Plant Breeding (Jokioinen, Finland)

- Research Scientist (Transgene flow from barley field), Sep. 1996 - May 1997.

Widagri Consultants Ltd. (Helsinki, Finland)

- Research Designer: Constructing EU application (The Biosafety of Transgenic Barley: A Model for Other Transgenic Cereals), 1-23 Dec. 1995

The Academy of Finland (Helsinki, Finland)

The Research Council for Agriculture and Forestry (recently Council for Environment and Natural Resources)

- Junior Research Fellow (Construction and applications of DNA marker linkage map in *Betula pendula*), Aug. 1992 - July 1995

The Research Council for the Natural Sciences

- Research Technician: Computing and mathematical consulting [Univ. of Turku] in IBP research program (UNESCO), Sep. 1969 - July 1970

VTT Biotechnical Laboratory (now VTT Biotechnology and Food Research; Espoo, Finland)

- Research Fellow (Optimization in Plant Biotechnology) Aug. 1989 - July 1992

Department of Plant Breeding, Univ. of Helsinki (Helsinki, Finland)

- Professor (total 7 months) 1979-1980, and 1987
- Research Associate Oct. 1971 - Aug. 1973, Feb. 1976 - Dec. 1988
- Laboratory Supervisor Sep. 1973 - Dec. 1973
- Course Lecturer May 1971 - Sep. 1971

Department of Genetics, Univ. of Turku (Turku, Finland)

- Research Associate Sep. 1969 - Dec. 1969

Central Statistical Office of Finland (Helsinki, Finland)

- Senior EDP Systems Analyst Apr. 1974 - Jan. 1976

Environmental Protection Department, Ministry of the Interior (Helsinki, Finland)

- Planning Officer Feb. 1974 - Mar. 1974

7. Membership in scientific societies

- European Association for Research on Plant Breeding (EUCARPIA) 1982-
- The Scandinavian Association of Agricultural Scientists (NJF) 1976-
- Scandinavian Association for Geneticists 1971-
- Scientific Agricultural Society of Finland 1988-
- Societas Genetica Fennica 1967-

8. Other academic and professional activities

- Member of The Finnish FAO Commission, 2004 -
- Member or deputy member of The Board for Gene Technology of Finland, 1997-
- Deputy member of The Novel Food Board of Finland, 2000 – 2003
- Member of the OECD Task Force for the Safety of Novel Foods and Feeds, 2000-
- Member of the Expert Group for Monitoring of European Corn Borer resistance to transgenic Bt-maize, 1997-
- Member of the Steering Group for Risk Assessment Research in Biotechnology, VTT, 1998 - 2004
- The Biosafety of Transgenic Barley, international working party 1995-96
- Member of the Education Commission for Biosciences, appointed by the Ministry of Education, 1975 – 1977
- Participating in about 70 scientific congresses in the fields of genetics, molecular biology, biotechnology, biosafety, statistics and biomathematics, 1970-

Faculty of Agriculture and Forestry, Univ. of Helsinki

- Faculty Council 1976-1986
- Preparatory Faculty Council 1971-73
- Compilation of Entrance Examinations for Biology 1980

Guidance in biosciences

- Evaluation committee for the doctoral thesis of Hannele Lindqvist-Kreuze (Studies on Arctic Bramble (*Rubus arcticus*) and Its Fungal Pathogens, Swedish Univ. of Agric. Sciences, Uppsala) 2002
- Nordic post-graduate course in Bioethics (as a teacher) "GM-crops and the public". Uppsala, Sweden, 24 Oct. 2001
- Examination of the doctoral thesis of Christina Antonius-Klemola (DNA fingerprinting in *Rubus* breeding, Univ. of Helsinki) 1999
- Evaluation committee for the doctoral thesis of Imad A.M. Eujayl (Use of DNA markers for genetic linkage mapping and analysis of biotic and abiotic stresses in lentil (*Lens sp.*), Univ. of Helsinki) 1998
- Opponent of the doctoral thesis of Eero Nissilä (Relationships between phenotype and genotype-environment interactions and their influence on yield in highly adapted barley germplasm, Univ. of Helsinki) 1996
- Evaluation committee for the doctoral thesis of Tongli Wang (Physiological and genetic basis of superior yield in silver birch (*Betula pendula* Roth)) 1996
- Supervision of the licentiate thesis of Satu Åkerman (PCR-based DNA markers in plant breeding, Univ. of Kuopio) 1995
- Supervision of the pro gradu work of Johanna Husman (Homogeneity of malting barley, Helsinki Tech. Univ.) 1995
- Supervision of about 15 pro gradu works, Univ. of Helsinki, 1973-1989

Forest Research Institute

- Associate Research Scientist (in two programs: Genetic foundations of forest tree breeding, and Methods of forest tree breeding and testing of breeding materials) 1996-99

Univ. of Turku

- Council of the School of Botany 1970-71
- Council of the School of Genetics 1970-71

Scandinavian Doctorate Courses in Plant Breeding (largely as a teacher)

- XII, Hyytiälä, Finland, 19-25 Jan. 1986
- VII, Sem, Norway, 19-24 Jan. 1981
- VI, Tvärminne, Finland, 21-26 Jan. 1980
- IV, Copenhagen, Denmark, 16-21 Jan. 1978
- III, Asker, Norway, 24-28 Jan. 1977

9. Research awards, research honours and major stipendiary support for research

- The Research Council for Agriculture and Forestry (99 600 Fmk, for 1992-95)
- Juho Vainio Foundation (10 000 Fmk) Mar. 1979

- Finnish Cultural Foundation (10 000 Fmk) Feb. 1978
- Emil Aaltonen Foundation (8 000 Fmk) Apr. 1977
- Finnish Cultural Foundation (12 000 Fmk) Feb. 1976
- Found. for Research of the Natural Resources in Finland (15 000 Fmk) Apr. 1974
- Betty Väänänen Award (1 000 Fmk) Apr. 1967

10. Legal convictions

None.

Helsinki, January 21, 2009
Jussi Tammissola