

## CURRICULUM VITAE

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## EDUCATION

**2008-2009** – Postgraduate studies. Computer science. Faculty of Mathematics and Computer Science, University of Lodz.

**1995** - Doctor of agricultural sciences. Doctoral dissertation topic: The effect of pre-sowing treatment of seeds on the yield and quality of sweet pea seeds (*Lathyrus odoratus* L.) – Institute of Pomology and Floriculture, Skierniewice.

**1978-1983** – Agricultural University, Lublin. (M.Sc. in Horticulture - 1984)

**1973-1978** – Technical School of Forestry, Zagnansk

## PROFESSIONAL EXPERIENCE

**2023** – **Assistant professor, Head of the Regional Centre for Horticultural Biodiversity**, curator of genetic resources of vegetable crops – The National Institute of Horticultural Research. Skierniewice.

**2016 – 2022** – **Researcher**, curator of genetic resources of vegetable crops – The National Institute of Horticultural Science.

**2014-2015** – **Lecturer** – Szczepan A. Pieniążek University of Economics and Humanities in Skierniewice.

**2006-2010** – **Assistant Professor**, Head of Long-Term Storage at the National Centre for Plant Genetic Resources, IHAR – Radzików.

**2001 - 2005** - **Assistant Professor** at the Department of Ornamental Plant Nursery and Seed Technology, Institute of Pomology and Floriculture, Skierniewice. Research activities:

**1998 -2001** – **Assistant Professor**, Head of the Laboratory of Storage of Ornamental Plants, Department of Ornamental Plants, Institute of Pomology and Floriculture, Skierniewice. Research activities:

**1996 - 1998** - **Assistant Professor** in the Seed Laboratory, Department of Ornamental Plants, Institute of Pomology and Floriculture, Skierniewice, Poland.

**1986 - 1995** **Assistant** - Seed Laboratory, Department of Ornamental Plants, Institute of Pomology and Floriculture, Skierniewice, Poland.

**1983-1986** **Teacher** – High School of Horticulture, Lodz, Poland.

## INTERNSHIPS IN FOREIGN SCIENTIFIC INSTITUTIONS

**07.10.2006 – 14.10.2006** –Centre for Genetic Resources, Wageningen, the Netherlands

**23.02.1996-06.03.1996** – Departement de Sciences et Technologie des Semences, Laboratoire de Recherches en Physiologie Vegetale, Angers, France.

**07.01.1996-22.02.1996** – Laboratory of Applied Plant Physiology, University of Paris 6, France.

**16.10.1994-23.12.1994** – Centre for Plant Breeding and Reproduction Research (CPRO-DLO), Wageningen, The Netherlands.

**20.06.1993-05.07.1993** – Laboratory of Applied Plant Physiology, University of Paris 6, France.

**01.09.1990 -31.08.1991** – Laboratory of Applied Plant Physiology, University of Paris 6, Paris, France.

**30.08.1987 -05.09.1987** – Institute for Agricultural Qualifications and Horticultural University, Budapest, Hungary.

## **RESEARCH AND ACTIVITY IN THE DOMAIN OF THE PGR CONSERVATION**

Research on seed germination, dormancy and ageing as well as physiological, metabolic and metabolomic markers of seed quality.

Supervising a qualitative assessment of inventoried samples of seeds of active collection of vegetable genotypes of horticultural plants (INHORT, Skierniewice) – assessment of about five thousand genotypes of various species of vegetable plants.

Managing long-term seed storage laboratory at National Centre for Plant Genetic Resources (IHAR-PIB, Radzików)

Quality control of seeds during long-term storage at National Centre for Plant Genetic Resources (IHAR-PIB, Radzików)– supervising a quality assessment of approx. 25 thousand genotypes of more than 100 species of agricultural and horticultural plants.

An inventory of seeds of vegetable genotypes deposited in IHAR-PIB – restructuring of the collection.

Creating and managing a seed active collection of horticultural plant genetic resources at INHORT.

Conducting the regeneration and multiplication of vegetable genotypes collected as part of collecting missions, as well as those from inventories.

Initiating, preparing and managing an investment project of the Regional Centre for Horticultural Biodiversity co-financed by the ROP of the Lodz Voivodeship – project value PLN 6,826,500 (contribution of European funds – PLN 4,717,500).

Implementation in INHORT the GRIN-Global database system for the management of horticultural plant genetic resources.

Experience in organizing workshops and conferences, preparing teaching materials. Contributions to the organization of fourteen conferences, symposia and workshops on seed physiology and on conservation of genetic resources.

Author or co-author of twenty-three scientific publications and thirteen publications from scientific conferences.

Author of one monograph and co-author of nine books and monographs.

Author of thirty-five articles on ornamental plant production, seed production and seed technology in Polish horticultural magazines.

Author of eleven presentations in English and fifteen presentations in Polish on scientific conferences and workshops.

### **ADDITIONAL EXPERIENCE AND QUALIFICATIONS**

Experience in agricultural, horticultural and forestry sciences. Extensive theoretical and practical knowledge of seed physiology and the principles of seed germination, conditioning and storage.

Knowledge of international standards in seed testing and seed technology.

Carrying out work leading to the development and implementation of standards for the quality of ornamental plant seeds and technical regulations for the production, field control and certification of ornamental plant seeds. Extensive practical experience in the preparation and application of standards in the field of seed testing and qualification - cooperation with the Seed Inspection.

Knowledge of international and national regulations and FAO and AEGIS standards for the collection, storage and distributing of genetic material.

Carrying out the implementation of the Multilateral Access and Benefit Sharing System (MLS) under the International Treaty on Food and Agriculture Genetic Resources (ITPGRFA) and the application of the Standard Material Transfer Agreement (SMTA) in the IHAR-PIB and INHORT genetic resources collections covered by the International Treaty (ITPGRFA).

Representing the Institute of Horticulture – INHORT in expert work in the field of cooperation with the Ministry of Agriculture and Rural Development and FAO.

Knowledge of database management systems (DBMS) – postgraduate studies at the Faculty of Mathematics and Computer Science of the University of Lodz.

Participation in the development of the EGISET database system project in the field of seed storage management in the KCRZG Long-Term Seed Storage (IHAR).

Implementation of the GRIN-Global database system for the management of genetic resources of the Institute of Horticulture – National Research Institute.

### **RESEARCH AND INVESTMENT PROJECTS**

Researcher in research grant No. 5 P06C 017 11: Effect of cultivation conditions on yield and quality of seeds of *Callistephus chinensis* and *Verbena hybrida*.

Researcher in the research grant no. 5 S303 011 05: The effect of solid matrix priming of horticultural seeds on seed germination and plant development of selected ornamental plants.

Manager of the project "Regional Centre for Horticultural Biodiversity as a centre integrating *ex situ* protection of biodiversity of the Łódź Voivodeship". RPLD.05.04.01-10-0001/18-00. The project was co-financed by the European Regional Development Fund under the Regional Operational Programme of the Łódź Voivodeship for 2014-2020 – project value PLN 6,826,500 (contribution of European funds – PLN 4,717,500).

### **EXPERT ACTIVITY**

Representative of the Republic of Poland in the Ninth Session of the Intergovernmental Technical Working Group on Plant Genetic Resources for Food and Agriculture, 23-28 July 2018, Rome, Italy;

Representative of the Republic of Poland in the Tenth Session of the Intergovernmental Technical Working Group on Plant Genetic Resources for Food and Agriculture, 22-24 June 2021, online session;

Representative of the Republic of Poland in the Thirteen Meeting of the Ad Hoc Open-Ended Working Group to Enhance the Functioning of the Multilateral System, Rome, Italy, 1 – 4 April 2025

**References of 5 relevant publications:**

Chojnowski M., Corbineau F., Côme D. 1997. Physiological and biochemical changes induced in sunflower seeds by osmopriming and subsequent drying, storage and aging. *Seed Science Research*. 7:323-331.

Kapusta E. Chojnowski M. 2019. Old varieties for home gardens. Vegetable plants. Lettuce. 28 pp. ISBN 978-83-65903-17-4. (in Polish)

Chojnowski M., Skorupińska A. 2020. Activity of 1-aminocyclopropane-1-carboxylic Acid Oxidase in Germinating Seeds of China Aster (Nees). *Journal of Horticultural Research*. 28: 2. 11-20.

Chojnowski M. 2021. Managing of Seed Collections of Vegetable Plant Genetic Resources. *Zeszyty Naukowe Instytutu Ogrodnictwa. Monografie i Rozprawy*. 60 pp. ISBN 978-83-65903-89-1. (in Polish)

Boniecka J., Dziurka M., Chojnowski M. 2025. Guanosine tetraphosphate (ppGpp) content: a potential marker of tomato (*Solanum lycopersicum* L.) seed quality. Submitted to *Physiologia Plantarum*.