# CURRICULUM VITAE

JERZY HENRYK CZEMBOR

**Date and place of birth**: 1965, Kluczbork, Poland,
**Work address**: Plant Breeding and Acclimatization Institute – National Research Institute (IHAR-PIB), Radzikow, 05-870 Blonie, Poland.
**Scientific disciplines**: agricultural sciences, plant pathology, plant physiology, genetics, integrated pest management, plant genetic resources, genebank management.
**Specialization**: phytopathology, IPM, mycology, plant genetics, molecular genetics, plant breeding, breeding for disease resistance, cereals, biotechnology, characterisation of genetic resources, evaluation of plant genetic resources for biotic and abiotic stresses, management of protection of plant genetic resources, gene bank procedures and standards, food quality and safety, environment protection, integrated plant protection, integrated pest management, organic farming, GMO, ecology, bioethics, sustainable agriculture systems, organic and regenerative agriculture.
**Specific specialization**: Powdery mildew and rusts on barley, wheat and triticale, pathogens on cereals, mechanisms of plant resistance to fungal pathogens, screening landraces and wild forms of wheat and barley for disease resistance, characterisation of barley and wheat genetic resources, molecular breeding, breeding of cereals for organic agriculture, IPM strategies for production of cereal crops, biodiversity of cereals in organic and regenerative agriculture.

**General information:**

- **Citations: 575, H-index: 11** (Web of Science - Nov 2021 )
- Prof. Jerzy H. Czembor published **more than 260** scientific papers and communications.

**RSEARCH ACTIVITY**:

***EDUCATION AND SCIENTIFIC DEGREES**:*

**1989- MS degree** (*Plant Physiology*) (5 years, 10 terms) – SGGW Agricultural University of Warsaw, Poland in cooperation with University of Stuttgart-Hohenheim, Germany, thesis title: "Evaluation of influence of growth regulator RSW 0411 on growth, development and yield formation of white lupin (*Lupinus albus* L.) cultivar Kalina";
**1990 - Postgraduate Study** (*Plant Breeding*) (2 terms, 10 courses), Krakow Agriculture University, Poland;
**1996 - Ph.D. degree** (*Plant Pathology*) (4 years, 11 terms, 28 courses) – Plant Pathology Department, Montana State University, Bozeman, USA, thesis title: "Presence and expression of resistance genes to powdery mildew of barley in selections from Tunisian barley landraces".
**2006 - Doktor habilitowany (Assistant Professor)** – (*scientific degree*) IHAR Radzikow, monograph: "Powdery mildew [*Blumeria graminis* (DC.) E. O. Speer f. sp. *hordei*] resistance in landraces of barley (*Hordeum vulgare* L.)"
**2007 – Docent** – (*position*) nomination by Minister (Ministry of Agriculture and Rural Development).
**2010 – Professor of IHAR-PIB** – (*position*) nomination by Director of IHAR, approved by Sci. Council.
**2012 – Professor of Agriculture** – (*scientific degree*) nomination by President of the Republic of Poland.

***PROFESSIONAL EXPERIENCE:***

**1989 – 1992** – research assistant, Radiobiology Dep., IHAR - Radzików;
**1992 – 1996** – Ph.D. student, Plant Pathology Dep., Montana State University, Bozeman, USA;
**1996 – 2006** – Adjunct, Plant Genetics and Plant Breeding Dep., IHAR – Radzików;
**2006 – 2010** – Docent, IHAR Radzików; 2010-2012, Professor of IHAR-PIB

**2003 – 2006** – Coordinator of EU Centre of Excellence "Crop Improvement Centre for Sustainable Agriculture" – CICSA at IHAR Radzikow.
**2008 – 2015** – Head of Laboratory of Applied Genetics, PGS
**2011 – 2015** – Head of Department of Plant Breeding and Genetics, ZGiHR
**2013 – 2016** – Coordinator –„Cereals" projects in "Basic Research for Biological Improvement in Crop Production, Polish Min. of Agriculture - IHAR-PIB projects (Area 4).
**2013 – 2016** – Coordinator –„Cereals" projects in „Creation and Use of Biological Improvement in Plant Breeding" - IHAR-PIB 25 statutory projects (Area 1).
**2016 – 2018** – Head of National Centre for Plant Genetic Resources (Polish GeneBank), KCRZG
**2016 – 2018** – Coordinator of National Crop Plant Genetic Resources Protection Program.
**2016 – 2018** – Coordinator Protection of Plant Genetic Resources (Area 1) in Programme „Creation of scientific basis for biological improvement and plant genetic resources protection as source of innovation and support of sustainable agriculture and national food security." at IHAR-PIB Radzikow funded by Ministry of Agriculture and Rural Development. 21 projects in 7 WP
**2016 – 2018** – Head of Laboratory of Plant Collection and Evaluation, PGiOR
**2019 – 2021** – Head of Independent Laboratory of Applied Biology, SPBS
**2022 – present** – Leader of Research Team (former Independent Lab SPBS) – Department of Biochemistry and Biotechnology

***DIDACTICS:***

**Ph.D. projects:**

Prof. J.H. Czembor was supervisor (promoter) of 2 Ph.D. projects:

**2010 - Ph.D. thesis** by Aleksandra Pietrusinska, IHAR Radzikow, title: Introduction of resistance gene *Lr41* for leaf rust (*Puccinia recondita* f.sp. *tritici)* and resistance gene *Pm21* for powdery mildew (*Blumeria gramnis* f.sp. *tritici*) into winter wheat.
**2012 - Ph.D. thesis** by Olga Domeradzka, IHAR Radzikow, title: Pathogenicity of powdery mildew (*Blumeria graminis* (DC.) Speer) on triticale (x *Triticosecale* Wittm.) in Poland.

**Ph.D. School**: Member of Committee for the development of young scientific staff carrying out Ph.D. projects in the discipline of agriculture and horticulture at the Doctoral School "AgroBioTech Phd" (resolution of the Scientific Council IHAR-PIB 2/XX/08 of 9.09.2021).

**Lectures and seminars:**
Presentation of over 115 lectures and seminars for scientists, breeders, agricultural advisors, politicians, farmers, entrepreneurs, teachers and students.

***THEMATIC BLOCS – SPECIFIC RESEARCH AREAS***

**1.** Identification of new sources of resistance to powdery mildew, leafrust and net blotch in barley landraces and *Hordeum spontaneum.* Selection of single plant resistant lines from barley landraces to major pathogens and investigation of genetic basis of their resistance (identification of new resistance genes for barley resistance breeding). Differential lines with specific resistance genes and set of differentia pathogen isolates are used.
In general: **Plant Genetic Resources as source of resistance to biotic stresses.**

**2.** Identification of new sources of resistance of barley to abiotic stresses especially caused by drought conditions.
In general: **Plant Genetic Resources as source of resistance to abiotic stresses.**

**3.** Application of Molecular markers (MAS) for identification of resistance genes to *Blumeria graminis* f.sp. *hordei*, *Blumeria graminis* f.sp. *tritici*, *Puccinia hordei*, *Puccinia triticina*.
In general: **MAS, Molecular breeding**

**4.** Introduction of effective resistance genes to *Blumeria graminis* f.sp. *hordei*, *Blumeria graminis* f.sp. *tritici*, *Puccinia hordei*, *Puccinia triticina* – using both classical and molecular methods.
In general: **Pre-breeding of cereals for resistance to major pathogens**

**5.** Monitoring of pathogenicity changes in population of fungi: *Blumeria graminis* f.sp. *hordei*, *Blumeria graminis* f.sp. *tritici*, *Puccinia hordei*, *Puccinia triticina*, *Puccinia striiformis*, *Pyrenophora spp. Rhynchosporium secalis)* – causing economically important diseases: powdery mildew of wheat, barley and triticale; wheat leaf and yellow rust; barley leaf rust; net blotch and leaf scald.
In general: **Monitoring of fungal pathogen populations**

**6.** Identification of powdery mildew resistance genes in new barley cultivars in Polish Register. Resistance genes deployment strategies in time and space for effective and durable protection of barley, wheat and triticale to major diseases.
In general: **Genetic resistance in IPM strategies for cereals**

**7.** Pest management in barley and wheat under ecological and sustainable agriculture conditions. Application of integrated pest management (IPM) principles in wheat and barley protection strategies.
In general: **Integrated Pest Management (IPM)**

**8.** Crop Plant Genetic Resources (PGR) Protection: description and evaluation of crop and wild plant populations, study of variation and genetic structure of selected species, molecular studies to describe plant biodiversity, preparation of initial materials (pre-breeding) of selected species for practical breeding.
In general: **Crop Plant Genetic Resources (PGR) - description and evaluation**

**9.** Development of bioinformatic management system of national crop plant genetic resources and its use of in the process of agricultural advisory services
In general: **Bioiformatic Platform of crop PGR for agricultural advisory services**

**10.** Characterization and assessment of wheat and barley genetic resources
In general: **Wheat and barley genetic resources**

**11.** Biodiversity of cereals in organc and regenerative agriculture systems
In general: **Biodiversity of cereals**

***CURRENT MAIN SCIENTIFIC INTERESTS*** (Objectives of Independent Laboratory od Applied Biology, SPBS, IHAR-PIB Radzików)

**1.** Characterization and application of crop plant genetic resources in plant breeding,
**2.** Investigation of genetic parameters of economically important traits of agricultural plants,
**3.** Improvement of plant breeding methods by application of molecular and bioinformatic techniques,
**4.** Monitoring of pathogens for the purposes of resistance breeding
**5.** Development of initial materials (pre-breeding) for breeding of cereals.

***RESEARCH PROJECTS AND INVESTIGATIONS:***

***National projects***

**1989-1992:** Breeding and genetic study of field bean (*Vicia faba*) – co-author of 2 cultivars: Sonet and Rajan;

**1996-2017: 1-1-04-3-02** "Evaluation of pathogenicity of major pathogens of barley and protection of barley using genetic resistance" Statutory project IHAR-Radzików, Poland;

**1998-2001:** State Committee for Scientific Research (KBN) **grant no. 5 P06A/032/14** titled "Resistance genes to powdery mildew (*Erysiphe graminis* DC f.sp. *hordei* Marchal) of barley in populations of barley landraces from Morocco and development RAPD markers for these genes" - as winner of TV show competition "Nobel for Pole" (votes of TV spectators) organised by Polish Public TV and KBN.

**2001-2005:** Creation of prebreeding material of malting spring barley of high quality. Polish Ministry of Agriculture and Rural Development (PMARD) **grant No. PRhn 4040-139.**

**2003-2007:** Creation of prebreeding material of feeding spring barley resistant to powdery mildew and leaf rust. PMARD **grant No. PRhn 4040-140.**

**2004- 2007:** Creation of prebreeding material of winter wheat resistant to powdery mildew, brown rust, yellowrust and with high quality. PMARD **grant No. PRhn 4040-131.**

**2003-2007:** Creation of prebreeding material of winter barley resistant to powdery mildew and net blotch. PMARD grant **No. PRhn 4040-111.**

**2008-2009:** Introduction to winter wheat genes for resistance to leaf rust and powdery mildew. Promotor grant for PhD of Olga Pietrusinska, Ministry of Science and Higher Education grant **No. N N310 147035**

**2008-2013:** Determination of interaction between resistance to biotic stresses and economical value characteristics in spring barley. Programme: Basic Research for Biological Progress in Crop Production.; Funded by the Ministry of Agriculture and Rural Development. **4-1-04-3-03 (38).**

**2008-2013:** Search for new sources of resistance to pathogenic fungi in spring barley Programme: Basic Research for Biological Progress in Crop Production.; Funded by the Ministry of Agriculture and Rural Development. Proj. No. **4-1-04-3-04 (39).**

**2008-2013:** Investigations on interaction between economical high value characteristics and resistance to biotic and abiotic stresses in winter barley. Programme: Basic Research for Biological Progress in Crop Production.; Funded by the Ministry of Agriculture and Rural Development. **4-1-04-3-01 (40).**

**2008-2013:** Evaluation and use of primitive forms biodiversity in improvement of barley resistance to economically important diseases.. Programme: Improving Plants for Sustainable agro-ecosystems, High Quality Food and Crop Production for non-food purposes. Funded by Ministry of Agriculture and Rural Development. Proj. No. **3-2-00-0-3, WP 2.3.**

**2008-2013:** Monitoring of pathogenicity changes in populations of fungi (*B. graminis, P. recondita, P. striiformis, Pyrenophora* spp., *Rhynchosporium secalis*) causing economically important cereal diseases – powdery mildew of wheat, barley and triticale, wheat leaf and yellow rust, barley leaf rust and net blotch and leaf scald on barley. Programme: Improving Plants for Sustainable agro-ecosystems, High Quality Food and Crop Production for non-food purposes. Funded by Ministry of Agriculture and Rural Development. Proj. No. **3-6-00-0-07, WP 6.7.**

**2014-2020:** Interaction between powdery mildew (*Blumeria graminis* f.sp. *hordei*) resistance determined by mlo gene and economical value characteristics in winter barley. Programme: Basic Research for Biological Progress in Crop Production.; Funded by the Ministry of Agriculture and Rural Development Proj. No. **4-1-04-3-01 (27).**

**2014-2018:** Efficiency of pyramiding resistance genes to powdery mildew (*Blumeria graminis* f.sp. *tritici*) and leaf rust (*Puccinia triticina*) in winter wheat. Programme: Basic Research for Biological Progress in Crop Production.; Funded by the Ministry of Agriculture and Rural Development. **4-1-04-3-02 (9).**

**2015-2020:** Broadening of the barley genetic pool. Program PW IHAR-PIB "Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security." Funded by the Ministry of Agriculture and Rural Development **2-2-00-0-02 (PW 2.2.)**

**2015-2020:** Monitoring of population pathogenicity changes of biotrophic pathogens of cereals. Program PW IHAR-PIB "Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security."Funded by the Ministry of Agriculture and Rural Development **3-3-00-0-02 (PW 3.2.)**

**2015-2018:** Application of DNA markers in breeding of wheat. Statutory project IHAR-Radzików, Poland **1-1-01-4-02**

**2016-2018: Coordinator of research Area 1**. "Protection of Crop Genetic Resources" in Programme "Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security." at IHAR-PIB Radzikow. Funded by Ministry of Agriculture and Rural Development. (21 projects in 7 WP)

**2016-2018: Task 1.1** Coordination of activities related to the protection and sharing of crop genetic resources. (**Coordination**) Area 1. "Protection of Crop Genetic Resources" in Programme "Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security." at IHAR-PIB Radzikow. Funded by Ministry of Agriculture and Rural Development.

**2016-2018:** Coordination of activities related to the protection and sharing of crop genetic resources. Area 1. "Protection of Crop Genetic Resources" in Programme "Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security." at IHAR-PIB Radzikow. Funded by Ministry of Agriculture and Rural Development. **3-1-00-0-01**

**2016-2018: Task 1.2** Collection and conservation of collections in the field, in vitro and cryopreservation, characterization, evaluation, documentation and distribution of genetic resources and information on crops, their wild relatives and accompanying species. (**Coordination**) Area 1. "Protection of Crop Genetic Resources" in Programme "Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security." at IHAR-PIB Radzikow. Funded by Ministry of Agriculture and Rural Development.

**2016-2018:** Characterisation and molecular diagnostics of specific crop plant genetic resources and associated weeds. Area 1. “Protection of Crop Genetic Resources” in Programme “Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security." at IHAR-PIB Radzikow. Funded by Ministry of Agriculture and Rural Development. **3-1-02-0-08**

**2016-2018:** Collecting, characterisation, evaluation, documentation and distribution of genetic resources of oats. Area 1. “Protection of Crop Genetic Resources” in Programme “Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security." at IHAR-PIB Radzikow. Funded by Ministry of Agriculture and Rural Development. **3-1-02-0-13**

**2016-2018:** Conducting services in the frame of research services in task 1.2 (Coordination of research services in 12 institutions) **3-1-02-0-15**

**2016-2018: Task 1.4.** Management of the central long-term storage of genetic resources, management of the herbarium. (**Coordination**) Area 1. “Protection of Crop Genetic Resources” in Programme “Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security." at IHAR-PIB Radzikow. Funded by Ministry of Agriculture and Rural Development.

**2016-2018: Task 1.5** Management of the central database and sharing of information on crop plants. (**Coordination**) Area 1. “Protection of Crop Genetic Resources” in Programme “Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security." at IHAR-PIB Radzikow. Funded by Ministry of Agriculture and Rural Development.

**2016-2018: Task 1.6** Broadening the diversity of species and varieties of agricultural and herbal plants in rural areas and raising public awareness of the importance of plant genetic resources. (**Coordination**) Area 1. “Protection of Crop Genetic Resources” in Programme “Creating the scientific basis of the biological progres and conservation of plant genetic resources as a source of innovation to support of sustainable agriculture and national food security." at IHAR-PIB Radzikow. Funded by MRiRWent.

**2018-2022: AGROBANK** „Development of bioinformatic management system of national genetic resources of useful plants and development of social and economic resources of Poland throughout the protection and use of these means in the process of providing agricultural consulting services”, financed by the National Center for Research and Development (NCBiR) as part of the contest for open projects within the frame of the strategic program of scientific research and development "Social and economic development of Poland in the conditions of globalizing markets” - **GOSPOSTRATEG.**

Project R&D (scientific) Coordinator and participant in tasks: Phase A: 1, 2, 4; Phase B: 6, 7, 8.

**Phase A 1-18 months:**

**Task 1.** Conducting basic research on the characterization and assessment of genetic resources of crop plants that are crucial for Polish agriculture and food production.

**Task 2.** Conducting applied research regarding natural conditions important from the point of view of crop plants that are of key importance for Polish agriculture and food production.

**Task 4.** Conducting applied research on the relations between knowledge collected during the implementations of tasks 1, 2 and 3 in phase A, in order to develop a comprehensive diagnosis of problems, to develop a strategy to achieve the optimal state of operations and to develop specific solutions and activities in the proposed directions - i.e. development of detailed assumptions of the bioinformatic

management system of national genetic resources of crop plants that are of key importance for Polish agriculture and food production.

**Phase B -19-36 months:**

**Task 6.** Organizing domestic and foreign study visits allowing to collect information on the functioning of good practices.

**Task 7.** Pilot/implementation of the solutions resulting from phase A in practice - the creation of an IT system and its launch.

**Task 8.** Conducting social campaigns and organizing media events intended to convince the public to the proposed solutions.

**2019 -** Molecular analysis of Mlo resistance in barley mutants. Statutory project IHAR-PIB Radzików, Poland **1-1-04-3-01**

**2020 -** Influence of pathogen infection causing leaf diseases of barley on fluorescence indicators at seedling and adult stages. Statutory project IHAR-PIB Radzików, Poland **1-1-04-2-01**

**2020-2021 -** The Regenerative Agriculture Revolution – project of European Institute of Innovation and Technology for Food (**EIT Food**) and CDR Brwinów - branch Radom. Co-funded by the EU. **Subcontractor**

**2021 -** Expanding the genetic pool of wheat and barley with effective genes conditioning physiological, phenotypic, yield-forming characteristics and resistance to economically important diseases. Statutory project IHAR-PIB Radzików, Poland **1-1-00-1-01**

***International projects***

**1997 - 2000: COST ACTION 817** "Population studies of airborne pathogens on cereals as a means of improving strategies for disease control",
**WG1**- Survey on Virulence and Aggressiveness. Subgroup - Barley Powdery Mildew,
**WG4**- Host Resistance - Partial Resistance;

**2000-2002:** Danish-Polish grant "Development of an Internet Decision Support System for Cereal Diseases and Potato Blight in Poland, 2001-2002"

**2001-2002:** European Union project "Evaluation and Conservation of Barley Genetic Resources to Improve their Accessibility to Breeders in Europe" - **GENRES** PL98-104;

**2003–2006:** Coordinator of **EU Centre of Excellence CICSA** "Crop Improvement Centre for Sustainable
Agriculture" - at IHAR Radzików.
**WP2** – Workshops and Seminars
**WP3** – Capacity building
**WP5** – Promotion
**WP6** - Coordination

**2004-2008: COST ACTION 860 SUSVAR** "Sustainable low-input cereal production: required varietal characteristics and crop diversity" (Management Committee, WG-1, WG-5);
**MC Management Committee**;
**WG-1** The agro-ecosystem: Define ideotypes (ideal combination of traits for low-input farming) in collaboration with farmers and implement in VCU;
**WG-5** Plant-disease complex interactions: An interpretation of the complex in low-input systems.

**2005-2011:** partner in **EU Integrated Project BIOEXPLOIT** "Exploitation of natural plant biodiversity for the production of pesticide-free food" (WP-4, WP-5);
**WP-4** To explore biodiversity on loci associated with disease resistance in wheat and potato accessions in gene banks;
**WP-5** To design durable disease resistance through marker assisted breeding.

**2006-2010:** partner in **EU network ENDURE** "European Network for Durable Exploitation of crop protection strategies"(IA2, IA3, RA2);
**IA2** Creation of a virtual laboratory (centre) for research into crop protection;
**IA3** Human resource exchange;
**RA2** Designing innovative crop protection strategies.

**2006 – present: EuroWheat** – internet based platform supporting integrated pest management in wheat.

**2010-2014, 2015-2019, 2020-2024**: member of **ENDURE European Research Group** (**ENDURE ERG**) – a platform to ensure the sustainability of crop protection in Europe through scientific excellence, interdisciplinary research, and international partnership including policy makers and all stakeholders;

**2014-2016:** member of **C-IPM ERANET** "Coordinated Integrated Pest Management in Europe". (The overall objective of the C-IPM - to create synergy in projects of national research programs, of European initiatives and activities of the private sector in the field of integrated pest management, to ensure a higher level of implementation of integrated plant protection products among European farmers)
**WP1** – Development a strategic research agenda on IPM in Europe;
**WP2** – Mapping and analysis of existing research based on future needs;
**WP5** – Development and funding joint transnational calls.

***OTHER ISSUES***

Prof. J.H. Czembor published **more than 260** scientific papers and communications.
**Citations: 575, H-index: 11** (Web of Science http://apps.webofknowledge.com/ - Nov 2021 )
Prof. J.H. Czembor is a member of several domestic and international **scientific associations** as well as an **expert for the EC (since 2002)** in 6, 7 Framework Programmes, Horizon2020 and Horizon Europe; for EC, Directorate-General for Agriculture and Rural Development; for Technopolis Group reviewing COST Actions (more than 300 projects).
- Reviewer of research proposals for The National Centre for Research and Development (**NCBR**).

**2008 – present**: Poland representative (**2008 – 2017**) in **EUCARPIA** (European Association for Research on Plant Breeding).
**2016 – 2018**: Poland Coordinator in **ECPGR** (European Cooperative Programme for Plant Genetic Resources),
**2016 – present**: member of 3 ECPGR working groups: **WG Barley; WG Wheat, WG On-farm Conservation and Management**

Prof. J.H. Czembor was invited speaker and chairperson on several national and international conferences.

**2011 –** Head of Organizing Committee of conference of experts **under the aegis of the Polish Presidency of the EU** on "Sustainable use of pesticides and integrated pest management in East-Central Europe and the Baltics", September 4-6, 2011, IHAR-PIB, Radzikow, Poland.

**2017 –** Member of Scientific Committee for the EFPP-SFPconference in Dunkirk, 29May-2 June

**2011-2013:** Poland representative in **SCAR CWG** on "Integrated pest management for the reduction of pesticide risks and use" – 3 documents:

1. Report - SCAR Collaborative Working Group on integrated pest management for the reduction of pesticide risks and use "ANALYSIS OF RESEARCH AND EXTENSION NEEDS FOR THE DEVELOPMENT OF IPM", 17.04.2013, 70 p.
2. Report – "SURVEY ON PEST MONITORING SYSTEMS ACROSS EUROPE within the realm of integrated pest management from the SCAR CWG on IPM", 16.08.2013, 46 p.
3. SCAR Collaborative Working Group on Integrated pest management for the reduction of pesticide risks and use - Executive Summary of 2011-2013 activities, 20.05 2013, 18 p.

**Reviewer and editor** in number of scientific journals (e.g. Crop Science, European Journal of Plant Pathology, Frontiers in Microbiology, Frontiers in Genetics, Frontiers in Ecology and Evolution, Agronomy MDPI, Agriculture MDPI, Plants MDPI, Crop and Pasture Science)

**- Editor in special issues:**

1. **"Barley Genetic Resources: Advancing Conservation and Applications for Breeding"**
   Guest Editors: Prof. Dr. Jerzy H. Czembor, Prof. Dr. Alan Schulman and Prof. Dr. Guoping Zhang
   https://www.mdpi.com/journal/agronomy/special_issues/Barley_Genetic_Resources

2. **"Crop Powdery Mildew"**
   Guest Editors: Prof. Dr. Diego Rubiales and Prof. Dr. Jerzy Henryk Czembor
   https://www.mdpi.com/journal/agronomy/special_issues/crop_powdery_mildew

3. **"Barley Genetic Resources: Advancing Conservation and Applications for Breeding - Series II"**
   Guest Editors: Prof. Dr. Jerzy H. Czembor
   https://www.mdpi.com/journal/agronomy/special_issues/E81BE379Z7

4. **"Exploring Cereal Biodiversity for Climate Change Mitigation in Agricultural Production"**
   Guest Editors: Prof. Dr. Jerzy Henryk Czembor
   https://www.mdpi.com/journal/agriculture/special_issues/78032SHZS8

Elected **member of Science Council of HAR-PIB** in years 2O12- 2021., in 4 terms (XVI – XIX) and member of Economic and Organizational Commission in 2 terms (XVI i XVII).

Member of the Team (representative of IHAR-PIB) for the **Development of the Strategic Plan for the Common Agricultural Policy** (CAP) for the years 2023-2027. (Ordinance No. 72. of Minister of Agriculture and Rural Development of 13 September 2019 OJ MRiRW.2019. Dz.Urz.MRiRW.2019.78).

**PUBLICATIONS**


**Czembor J.H.,** Talbert L.E. **1997**. Evaluation of STS-PCR and RFLPs as molecular markers for the *Mla* locus conferring powdery mildew resistance in barley. *Plant Breeding and Seed Science* **41(2):** 1-14.

**Czembor J.H.**, Czembor H.J. **1998**. Powdery mildew resistance in cultivars of spring barley from Polish Register. *Plant Breeding and Seed Science* **42(2):** 87-99.

**Czembor J.H.**, Czembor H.J. **1999.** Powdery mildew resistance in cultivars of winter barley from Polish Register. *Plant Breeding and Seed Science* **43(1)**: 65-75.

**Czembor J.H. 1999**. Resistance to powdery mildew in barley landraces from Tunisia. *Plant Beeding and Seed Science* **43(2):** 49-63.

**Czembor J.H.**, Czembor H.J. **1999**. Resistance to powdery mildew in barley landraces collected from Jordan. *Plant Breeding and Seed Science* **43(2):** 65-80.

**Czembor J.H.**, Johnston M.R. **1999**. Resistance to powdery mildew in selections from Tunisian barley landraces. *Plant breeding* **118(6):** 503-509.
https://doi.org/10.1046/j.1439-0523.1999.00382.x IF: 1.391

**Czembor J.H.**, Czembor H.J. **2000**. Powdery mildew resistance in selections from Moroccan barley landraces. *Phytoparasitica* **28(1):** 65-80.
https://doi.org/10.1007/BF02994024 IF: 1.15

**Czembor J.H. 2000**. Resistance to powdery mildew in populations of barley landraces from Morocco. *Genetic Resources and Crop Evolution* **47:** 439-450.
https://doi.org/10.1023/A:1008732919426 IF: 1.538

**Czembor J.H.**, Czembor H.J., **2000**. Powdery mildew resistance in barley landraces from Morocco. *Journal of Phytopathology* **148(5):** 277-288.
https://doi.org/10.1046/j.1439-0434.2000.00507.x IF: 0.937

**Czembor J.H. 2000**. Resistance to powdery mildew in populations of barley landraces from Morocco. *Australasian Plant Pathology* **29:** 137-148.
https://doi.org/10.1071/AP00022 IF: 0.781

**Czembor J.H. 2000**. Sources of powdery mildew resistance in barley landraces from Morocco. *Archives of Phytopathology and Plant Protection* **33(2):** 111-130.
https://doi.org/10.1080/03235400009383336 IF: 0.45

**Czembor J.H. 2000**. Sources of powdery mildew resistance in barley landraces collected from Algeria and Tunisia. *Cereal Rusts and Powdery Mildews Bulletin.*
http://www.crpmb.org/2000/0607czembor

**Czembor J.H. 2000**. Resistance to powdery mildew in barley (*Hordeum vulgare* L.) landraces from Egypt. *Plant Genetic Resources Newsletter* **123:** 52-60.

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