

## Anna Kancelista

Department of Biotechnology and Food Microbiology  
Faculty of Food Sciences and Technology, Wrocław University of Environmental and Life Sciences  
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### EDUCATION

- **01.10.2005 – 25.06.2012**  
PhD Studies *specialization in biotechnology*  
Department of Biotechnology and Food Microbiology, Wrocław University of Environmental and Life Sciences, Wrocław, Poland  
Scientific advisor: Prof. Danuta Witkowska  
  
PhD thesis: Biodegradation of lignocellulosic wastes by filamentous fungi
- **03.2004 – 06.2005**  
Agricultural University of Wrocław, Poland  
MSc at the Faculty of Food Science  
Scientific advisor: Prof. Anna Rodziejewicz  
Specialization: *Fermentation Technology and Food Microbiology*  
Diploma thesis: Interaction and feather keratin degradation by keratinophilic yeast and filamentous fungi in mixed cultures
- **10.2000 – 02.2004**  
Agricultural University of Wrocław, Poland  
BSc at the Faculty of Food Science

### WORK EXPERIENCE

- **01.10.2013 – present**  
Department of Biotechnology and Food Microbiology, Wrocław University of Environmental and Life Sciences  
  
Assistant Professor
- **28.01.2010-30.09.2013**  
Department of Biotechnology and Food Microbiology, Wrocław University of Environmental and Life Sciences  
  
Researcher in the project “Polish *Trichoderma* strains in plant protection and organic waste management”

### PARTICIPATION IN GRANTS AND PROJECTS

- **01.2010 – 03.2015**  
“Polish *Trichoderma* strains in plant protection and organic waste management”  
The Project was co-financed by the European Union through the European Regional Development Fund within the Innovative Economy Operational Program, 2007-2013 (UDA-POIG.01.03.01-129-09)
- **05.2013 - 09.2014**  
“Developing of phage preparations against multi drug resistant bacterial infections for use in livestock animals”  
Innovative Economy Programme
- **2013**  
“Microwave-vacuum drying of food yeast”  
National Science Centre, Poland (N N313 771240)

### PEER REVIEWED PUBLICATIONS

- Kancelista A., Tril U., Stempniewicz R., Piegza M., Szczech M., Witkowska D. Application of Lignocellulosic Waste Materials for the Production and Stabilization of *Trichoderma* Biomass. Pol. J. Environ. Stud., 2013, 22 (4), 1083-1090.
- Witkowska D., Stolaś J., Kancelista A., Piegza M. Lytic capability of *Trichoderma* moulds in the presence of phytopathogenic biomass. Acta Scientiarum Polonorum, Biotechnology, 2009, 8 (2), 17–25.

- Rywińska A., Juszczyk P., Kancelista A., Biesiadecka A., Robak M., Niedbalska J. Simultaneous production of lipases and citric acid from crude glycerol by *Yarrowia lipolytica*. Chemical Engineering and Equipment, 2009, 3, 105-106.
- Piegza M., Stolaś J., Kancelista A., Witkowska D. Influence of *Trichoderma* strains on the growth of pathogenic moulds in biotic test on untypical carbon sources. Acta Scientiarum Polonorum, Biotechnology, 2009, 8(1), 3-14.
- Kancelista A., Witkowska D. Biosynthesis of some lytic enzymes in medium containing waste corn cobs by filamentous fungi from *Trichoderma* genus. Acta Scientiarum Polonorum, Biotechnology, 2008, 7 (1), 17-25.

## PATENTS

- Szczech M., Witkowska D., Kancelista A., Piegza M., Gajewska E., Małolepsza U. The method of selection of the active isolates from the genus *Trichoderma*, Patent Application No. P397659, 30.12.2011
- Witkowska D., Szczech M., Kancelista A., Stempniewicz R., Paślawska M., Piegza M., Sobolewski J. Biopreparation for vegetable seed treatment, a method and composition of its producing, Patent Application No. P408647, 24.06.2014

## PARTICIPATION IN CONFERENCES

- Kancelista A., Witkowska D., Stempniewicz R., Łaba W., Paślawska M., Piegza M., Wilczak A., Grzegorzczak M., Szczech M. The biological activity of *Trichoderma harzianum* SK 75 strain in biopreparations preserved in the fountain and freeze drying. Scientific Conference Microorganisms in the protection and management of organic wastes, Nieborów, Poland, 26-28.11.2014 – lecture
- Stempniewicz R., Kancelista A., Paślawska M., Łaba W., Piegza M., Szczech M., Witkowska D. The effect of storage on viability and enzymatic activity of *Trichoderma atroviride* SK 25 strain in dried biopreparations. Scientific Conference Microorganisms in the protection and management of organic wastes, Nieborów, Poland, 26-28.11.2014 – poster
- Łaba W., Witkowska D., Klepacz J., Kancelista A., Piegza M., Szczech M. Selection of freeze-drying parameters and protective factors for the preservation of two isolates of filamentous fungi *Trichoderma*. Scientific Conference Microorganisms in the protection and management of organic wastes, Nieborów, Poland, 26-28.11.2014 – poster
- Paślawska M., Kancelista A., Stempniewicz R., Piegza M., Witkowska D. *Trichoderma* fungal biomass drying using a microwave under reduced pressure. XII International Scientific Conference „Theoretical and applied problems of agricultural engineering” Polanica Zdrój, Poland, 24-27.06.2013 - poster
- Stempniewicz R., Kancelista A., Łaba W., Buska K., Piegza M., Szczech M., Witkowska D. Production of *Trichoderma* spores on lignocellulose waste materials and their preservation by lyophilization. Scientific Conference Organic waste - problems and ways of developing, Falenty, Poland, 20-21.09.2012 – lecture
- Kancelista A., Stempniewicz R., Paślawska M., Piegza M., Szczech M., Witkowska D. Production of *Trichoderma* spores on lignocellulose waste materials and their preservation by microwave-vacuum drying. Scientific Conference Organic waste - problems and ways of developing, Falenty, Poland, 20-21.09.2012 – poster
- Piegza M., Kancelista A., Stempniewicz R., Szczech M., Witkowska D. The influence of selected factors on sporulation and biosynthesis of extracellular hydrolases by *Trichoderma* fungi. Scientific Conference Organic waste - problems and ways of developing, Falenty, Poland, 20-21.09.2012 – poster
- Szczech M., Witkowska D., Piegza M., Kancelista A. Parasitize of spore of pathogenic fungi in the soil by *Trichoderma* sp. XIII International Scientific Conference Organic Farming - present state and prospects of development, Techniques, technologies, food production. Puszczykowo, Poland, 12-14.10.2011 – poster
- Witkowska D., Piegza M., Kancelista A., Stempniewicz R., Szczech M. Lytic abilities of filamentous fungi *Trichoderma* in production of hydrolases important in agriculture. Scientific Conference *Trichoderma* and other fungi in Science and Practice, Radziejowice, Poland, 29-30.09.2011 – lecture
- Szczech M., Małolepsza U., Witkowska D., Gajewska E., Piegza M., Pietrowska E., Kancelista A., Oskiera M. The selection of *Trichoderma* fungi for use in agriculture. Scientific Conference *Trichoderma* and other fungi in Science and Practice, Radziejowice, Poland, 29-30.09.2011 – poster

- Kancelista A., Piegza M., Witkowska D., Jarczewska D., Wojech R., Golachowski A. Influence of corn cobs waste pre-treatment on the enzymatic hydrolysis efficiency. V Vedecka konferencia s medzinaodnou ucastou, Bezpecnost a kvalita surovin a potravín. Nitra, Slovakia, 3-4.02.2010 – poster
- Witkowska D., Piegza M., Kancelista A., Jurkiewicz M. Enzymatic hydrolysis of *Yarrowia* cells as a valuable protein source. IV Vedecka konferencia s medzinaodnou ucastou, Bezpecnost a kvalita surovin a potravín. Nitra, Slovakia, 27-28.01. 2009 – poster
- Kancelista A., Witkowska D., Piegza M., Okręglicka K. Degradation of ligninocellulose waste from food industry by *Aspergillus niger* XP enzymes. IV Vedecka konferencia s medzinaodnou ucastou, Bezpecnost a kvalita surovin a potravín. Nitra, Slovakia, 27-28.01. 2009 – lecture
- Kancelista A., Piegza M., Witkowska D. *Trichoderma hamatum* C-1 strain as biocontrol agent and valuable producer of lignocellulose-lytic enzymes. 34th International Conference of Slovak Society of Chemical Engineering. Tatranske Matliare, Slovakia, 21-25.05.2007 – poster
- Kancelista A. , Witkowska D. *Trichoderma harzianum* T33 strain as potential producer of cellulases and xylanases in submerged cultures. EuroBiotech, Krakow, Poland, 20-22.09.2010 – poster
- Piegza M., Szlączka K., Siepka E., Kancelista A., Witkowska D. The effect of organic biopolymers on the efficiency of lytic enzymes biosynthesis with selected *Trichoderma* strains. XV Young Staff Session of the Scientific Section of the Polish Society of Food Technologists, Wrocław, Poland, 20-21.05.2010 – poster
- Kancelista A. Hydrolysis of lignocellulose wastes from food industry with hydrolases of *Trichoderma* strain. XIII Young Staff Session of the Scientific Section of the Polish Society of Food Technologists, Łódź, Poland, 28-29.05.2008 – lecture
- Piegza M., Kancelista A., Witkowska D., Stolaś J. Interactions between *Trichoderma harzianum* T33 and plant pathogenic fungi. 3rd National Congress of Biotechnology, Poznań, Poland, 09.09-12.09.2007 – poster
- Łaba W., Rodziewicz A., Kancelista A., Baranowska K. Keratinase production during utilization of feather keratin by two *Bacillus* strains. Biotechnology 2006, Ceske Budejovice, Czech Republic, 15-16.02.2006 – poster
- Kancelista A., Rodziewicz A., Łaba W., Karbownik W. Feather keratin biodegradation by keratinophilic bacteria, yeast and fungi in dual cultures. Biotechnology 2006, Ceske Budejovice, Czech Republic, 15-16.02.2006 – poster

#### TEACHING EXPERIENCE

- Laboratory classes in: Biochemistry, Microbiology, Enzymology

#### LANGUAGES

- English – intermediate
- German – primary
- Russian – primary

#### SKILLS

Lignocellulose hydrolysis, lignocellulose pretreatment, filamentous fungi cultures, solid state cultures, enzymes biosynthesis, analysis of enzymatic activity, biochemical characterization of enzymes, protein purification, preservation of microorganisms (especially freeze- and fountain drying), microorganisms growth analysis with Bioscreen, standard biochemical and microbiological analysis.