

CURRICULUM VITAE

Personal Information

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EDUCATIONAL BACKGROUND

Professor of the West Pomeranian University of Technology in Szczecin

Department of Meat Technology
Faculty of Food Sciences and Fisheries
West Pomeranian University of Technology in Szczecin
Position since 1st October 2019

Habilitation in Fisheries

Department of Meat Technology
Faculty of Food Sciences and Fisheries
West Pomeranian University of Technology in Szczecin
Habilitation thesis: "Intensification of tench culture (*Tinca tinca* L., 1758) in terms of nutrigenomic research"
Date of obtaining: 20th December 2017

Doctor's degree in Fisheries

Department of Aquaculture (Fish Genetics Laboratory)
Faculty of Food Sciences and Fisheries
West Pomeranian University of Technology in Szczecin
Doctoral thesis: "Application of real-time PCR and competitive ELISA assays for testing specific growth rate of tench (*Tinca tinca* L.)"
Date of obtaining: 17th November 2010

Master's degree in Biotechnology in Animal Production and Environmental Protection

Laboratory of Molecular Cytogenetics
Faculty of Biotechnology and Animal Husbandry
University of Agriculture in Szczecin
Master thesis: "Growth hormone gene polymorphism of rainbow trout (*Oncorhynchus mykiss*) in comparison to length and weight of the body".
Date of obtaining: 16th June 2006

ONGOING RESEARCH PROJECTS

- **2019 –**
Assessing the risk of infection by viral agents HVA, EVA, EVE, EVEX on the eel raised in Vietnam. Vietnamese Ministry of Education and Training. B2019-TDV-05
- **2018 –**
GAIN, Green Aquaculture Intensification in Europe - H2020-SFS-2017-2 (SFS-32-2017) Promoting and supporting the eco-intensification of aquaculture production systems: inland (including fresh water), coastal zone, and offshore.
- **2017 –**
SEAFOOD^{TOMORROW}, Nutritious, safe and sustainable seafood for consumers of tomorrow - H2020-BG-2017-8 (BG-08-2017) Innovative sustainable solutions for improving the safety and dietary properties of seafood. Blue Growth: Demonstrating an ocean of opportunities, under societal challenge Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bio economy.

COMPLETED RESEARCH PROJECTS

- **2015 – 2020**
CERES, Climate change and European aquatic **RESources** - H2020-BG-2015-2 (BG-02-2015) Forecasting and anticipating effects of climate change on fisheries and aquaculture, w ramach programu Blue Growth: Unlocking the Potential of Seas and Oceans under societal challenge Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy.
- **2016 – 2017** “Science in the service of nature – gene pools conservation of endangered and threatened mammalian species by knowledge transfer and experience sharing on the best practices in conservation genetics of teriofauna”. Bilateral Cooperation Fund within the Programme PL02 "The protection of the biological diversity and ecosystems". Role in the project: Co-investigator.
- **2016 – 2017** "Exchange of knowledge, experiences and best practices in study and control of the invasive alien species populations in Iceland and Poland". Bilateral Cooperation Fund within the Programme PL02 "The protection of the biological diversity and ecosystems". Role in the project: Co-investigator.
- **2014 – 2016**
"Active protection of noble crayfish in lakes of Pomeranian Complex Landscape Parks " financially supported by EEA and Norway grants within programme area: Biodiversity and Ecosystem Services. Role in the project: Main coordinator of laboratory works.
- **2007 – 2013**
“Development of a genetics-based system for identification of food products from fisheries and aquaculture introduced to the European Union customs area”. (Operational Program PO RYBY 2007-2013, No. 00002-61720-OR1600003/10). Role in the project: Co-investigator.
- **2007 – 2008**

“Determination of the carrier species and the infection susceptibility for Koi-Herpes-Virus infections among selected cyprinid fish species and their hybrids acquired from open waters and culture sites of the Odra River drainage”. (EU Structural Funds, No. OR 1661535-OR1600009/07). Role in the project: Co-investigator.

- **2007 – 2008**

“Specifying the molecular status of Koi Herpesvirus isolates and identifying vectors responsible for its distribution among the native species of fish, clams and crustaceans”. (EU Structural Funds, No. OR 16-61535-OR1600020/07). Role in the project: Co-investigator.

RESEARCH PUBLICATIONS

- Śmietana N., **Panicz R.**, Sobczak M., Eljasik P., Śmietana P. 2020. Validation of real-time PCR reference genes of muscle metabolism in harvested spiny-cheek crayfish (*Faxonius limosus*) exposed to seasonal variation. *Animals* 10(7), 1140. DOI: 10.3390/ani10071140
- Hofsoe-Oppermann P., Kielpińska J., **Panicz R.**, Bergmann SM 2020. Detection of white sturgeon iridovirus (WSIV) in wild sturgeons (Actinopterygii: Acipenseriformes: Acipenseridae) in Poland. *Journal of Veterinary Research* 00-00. *in press*
- Deconinck D., Volckaert F., Hostens K., **Panicz R.**, Eljasik P., Faria M., Monteiro K., Robbens J., Derycke S. 2020. A high-quality genetic reference database of European commercial fishes reveals substitution fraud of processed Atlantic cod (*Gadus morhua*) and common sole (*Solea solea*) at different steps in the Belgian supply chain. *Food and Chemical Toxicology*. DOI: 10.1016/j.fct.2020.111417
- Keszka S., **Panicz R.**, Stepanowska K., Biernaczyk M., Wrzecionkowski K., Zybała M. 2020. Characteristics of gray seal (*Halichoerus grypus*) diet in the mouth of the Vistula River (Mewia Łacha natural reserve, southern Baltic Sea), based on osteological and molecular studies of scat samples. *Oceanology* 62 (3): 00-00. DOI: 10.1016/j.oceano.2020.04.005
- **Panicz R.**, Eljasik P., Śmietana N., Sadowski J., Biernaczyk M. 2020. New invertebrate species as potential CyHV-3 reservoirs: a case study of common carp mortalities in hyperthermal conditions. *Journal of Fish Diseases*. DOI: 10.1111/JFD.13177
- Barbosa V., Maulvault A., Anacleto P., Santos M., Mai M., Oliveira H., Delgado I., Coelho I., Barata M., Araujo-Luna R., Ribeiro L., Eljasik P., Sobczak M., Sadowski

- J., Tórz A., **Panicz R.**, Dias J., Pousao-Ferreira P., Carvalho M., Martins M., Marques A. 2020. Enriched feeds with iodine and selenium from natural and sustainable sources to modulate farmed gilthead seabream (*Sparus aurata*) and common carp (*Cyprinus carpio*) fillets elemental nutritional value. Food and Chemical Toxicology. 140.111330. DOI: 10.1016/j.fct.2020.111330
- Eljasik P., **Panicz R.**, Sobczak M., Sadowski J., Barbosa V., Marques A., Dias J. 2020. Plasma biochemistry, gene expression and liver histomorphology in common carp (*Cyprinus carpio*) fed with different dietary fat sources . Food and Chemical Toxicology. 140, 111300 . DOI: 10.1016/j.fct.2020.111300
 - Sobczak M., **Panicz R.**, Eljasik P., Sadowski J., Tórz A., Żochowska-Kujawska J., Barbosa V., Domingues V., Marques A., Dias J. 2020. Quality improvement of common carp (*Cyprinus carpio* L.) meat fortified with n-3 PUFA. Food and Chemical Toxicology. 139, 111261. DOI: 10.1016/j.fct.2020.111261
 - **Panicz R.**, Napora-Rutkowski Ł., Keszka S., Skuza L., Szenejko M., Śmietana P. 2019. Genetic diversity in natural populations of noble crayfish (*Astacus astacus* L.) in north-western Poland on the basis of combined data from SSR and AFLP. PeerJ 7: e7301. DOI: 10.7717/peerj.7301
 - **Panicz R.**, Eljasik P., Sobczak M., Sadowska J., Keszka S. 2019. Molecular and quality meat characteristics of new fish species introduced to the EU market. EJPAU. 22 (2), # 02. DOI: 10.30825/5.ejpau.172.2019.22.2
 - Hofsoe-Oppermann P., Kiełpińska J., **Panicz R.**, Bergmann SM 2019. Detection of white sturgeon iridovirus (WSIV) in sturgeons from aquaculture facilities located in Poland, Germany and Italy. Acta Ichthyologica et Piscatoria. 49 (3): 257-264. DOI: 10.3750/AIEP/02568
 - **Panicz R.**, Sadowski J., Eljasik P. 2019. Detection of Cyprinid herpesvirus 2 (CyHV-2) in symptomatic ornamental types of goldfish (*Carassius auratus*) and asymptomatic common carp (*Cyprinus carpio*) reared in warm-water cage culture. Aquaculture. 504: 131-138. DOI:10.1016/j.aquaculture.2019.01.065
 - Więcaszek B., Sobiecka E., Keszka S., **Panicz R.**, Górecka K., Linowska A., Król S. 2019. Record of three new fish species and their parasite fauna from the Pomeranian Bay (Bornholm Basin, Baltic Sea). Acta Ichthyologica et Piscatoria. 49(1): 65-73. DOI:10.3750/AIEP/02392

- Keszka S., **Panicz R.** 2018. Atlantic sturgeon *Acipenser oxyrinchus* and alien sturgeon species in Polish waters: can biometric analysis assist species discrimination and restoration? *Acta Biologica*, 25, 5–18. DOI: 10.18276/ab.2018.25-01.
- **Panicz R.**, Sadowski J., Hofsoe-Oppermann P., Półgęsek M. 2018. A new identification method for *Clarias gariepinus*, *Clarias macrocephalus* and their hybrids using PCR-RFLP. *EJPAU* 21(4), #05. DOI:10.30825/5.EJPAU.164.2018.21.4
- Adamkowska N., Kiełpińska J., **Panicz R.**, Śmietana P. 2018. Detection of *Aphanomyces astaci* in spiny-cheek crayfish from selected water reservoirs of north-western Poland. *Medycyna Weterynaryjna*. 74(6): 3398-3400. DOI: 10.21521./mw.6006
- Więcaszek B., Sobecka E., **Panicz R.**, Keszka S., Górecka K., Linowska A. 2018. First record of the deep-water shark *Etmopterus spinax* (Chondrichthyes: Etmopteridae) from the southern Baltic Sea (Pomeranian Bay). *Oceanologia*. 60(3): 426-430. DOI: 10.1016/j.oceano.2018.02.001
- Śmietana N., **Panicz R.**, Śmietana P. 2017. Raki słodkowodne w Polsce – potencjał surowcowy, wartości odżywcze, aspekty technologiczne. *Przemysł spożywczy*. 71(7): 33-36. DOI: 10.15199/65.2017.7.7
- **Panicz R.**, Drozd R., Drozd A., Nędzarek A. 2017. Species and sex-specific variation in antioxidant status of tench (*Tinca tinca*), well catfish (*Silurus glanis*) and sterlet (*Acipenser ruthenus*) reared in cage culture. *Acta Ichthyologica et Piscatoria*. 47(3): 213-223. DOI: 10.3750/AEIP/02093
- Nguyen T.T., Jin Y., Kiełpińska J., Bergmann S.M., Lenk M., **Panicz R.** 2017. Detection of *Herpesvirus anguillae* (AngHV-1) in European eel *Anguilla anguilla* (L.) originating from northern Poland-assessment of suitability of selected diagnostic methods. *Journal of Fish Diseases* 1717-1723. DOI: 10.1111/jfd.12689
- **Panicz R.**, Klopp C., Igielski R., Hofsoe P., Sadowski J., Collier Jr. J.A. 2017. Tench (*Tinca tinca*) high-throughput transcriptomics reveal feed dependent gut profiles. *Aquaculture*. 479: 200-207. DOI: 10.1016/j.aquaculture.2017.05.047
- **Panicz R.**, Żochowska-Kujawska J., Sadowski J., Sobczak M. 2017. Effect of feeding various levels of poultry by-product meal on the blood parameters, filet composition and structure of female tenches (*Tinca tinca*). *Aquaculture Research*. 48: 5373-5384. DOI: 10.1111/are.13351

- Kempter J., Kiełpiński M., **Panicz R.**, Prüffer K., Keszka S. 2017. Development of the method for identification of selected populations of torpedo scad, *Megalaspis cordyla* (Linnaeus, 1758), using microsatellite DNA analyses. CELFISH PROJECT- Part 4. Food Chemistry. 221: 944–949.
- **Panicz R.**, Keszka S., Rybczyk A., Zawal A. 2016. Molecular study of crucian carp - an invasive species in the lakes of the Leszno Lakeland. Acta Biologica. 23: 00-00.
- Keszka S., **Panicz R.** 2016. Produkty rybołówstwa i akwakultury importowane do UE z Afryki. Trendy, gatunki, zagrożenia. Przemysł spożywczy. 70(12): 08-11.
- Nguyen T.T., Kempter J., **Panicz R.** 2016. Presence of *Herpesvirus anguillae* (AngHV1) DNA in the native ichthyofauna of north-western Poland, EJPAU 19(4), #06.
- **Panicz R.** 2016. Validation of reference genes for RT-qPCR analysis of growth hormone receptor and growth hormone expression in the tench (*Tinca tinca*) fed substituting poultry meal for fish meal. Aquaculture. 465: 179-188.
- Kempter J., Kiełpiński M., **Panicz R.**, Keszka S. 2016. Microsatellite DNA-based genetic traceability of alfonsino (*Beryx splendens* Lowe, 1834) populations. Project CELFISH – Part 2. Acta Ichthyologica et Piscatoria. 46 (4): 287–291.
- Keszka S., **Panicz R.** 2016. RASFF - analiza najczęstszych zagrożeń ze strony produktów rybołówstwa i akwakultury w latach 2014-2016. Przemysł spożywczy. 70: 8-11.
- Nguyen T.T., Kempter J., **Panicz R.** 2016. Monitoring zagrożeń węgorza europejskiego (*Anguilla anguilla*) wirusem AngHV1 w północno-zachodniej Polsce. Medycyna Weterynaryjna. 72(9): 564-566.
- **Panicz R.**, Keszka S. 2016. First occurrence of thinlip grey mullet, *Liza ramada* (Risso, 1827) in the Odra River estuary (NW Poland) – genetic identification. Oceanologia. 58(3):196-200.
- Skuza L., Keszka S., **Panicz R.**, Śmietana P. 2016. Molecular characterization of the noble crayfish (*Astacus astacus* L.) population from Pomeranian lakes (north-western Poland) based on mitochondrial DNA. Knowledge and Management of Aquatic Ecosystems. 417, 13.
- **Panicz R.**, Sadowski J., Schütze H., Bergmann S.M. 2015. Temperature influence on key players of the somatotropic axis of tench, *Tinca tinca* (Actinopterygii: Cypriniformes: Cyprinidae). Acta Ichthyologica et Piscatoria 45 (4): 00–00. (accepted).

- Kielpinski M., Kempter J., **Panicz R.**, Mikolajczyk K., Keszka S. 2015. Genetic traceability of selected populations of the yellowstripe scad (*Selaroides leptolepis*) based on the analysis of microsatellite DNA. *Acta Ichthyologica Et Piscatoria* 45 (3): 299-305. DOI: 10.3750/AIP2015.45.3.08
- **Panicz R.**, Zych S., Grzesiak W. 2014. A novel polymorphism within intron B of growth hormone gene (gh2) of the rainbow trout, *Oncorhynchus mykiss*. *Polish Journal of Natural Sciences* 28(2): 153-160.
- Drozd R., **Panicz R.**, Jankowiak D., Hofsoe P., Drozd A., Sadowski J. 2014. Antioxidant enzymes in the liver and gills of *Tinca tinca* from various water bodies. *Journal of Applied Ichthyology*. 30: 2–6.
- Kielpinski M., Kempter J., **Panicz R.**, Keszka S. 2014. Genetic identifiability of selected populations of Indian mackerel, *Rastrelliger kanagurta* (Actinopterygii: Perciformes: Scombridae)—CELFISH Project—Part 1. *Acta Ichthyologica et Piscatoria*. 44 (2): 145–152.
- Kempter J., Hofsoe P., **Panicz R.**, Bergmann S. M. 2014. First detection of anguillid herpesvirus 1 (AngHV-1) in European eel (*Anguilla anguilla*) and imported American eel (*Anguilla rostrata*) in Poland. *Bulletin of the European Association of Fish Pathologists* 34(3): 87-94.
- Kempter J. , Hofsoe P. , Neumann A. , **Panicz R.** , Keszka S. 2013. Intra and inter-stock variability in sterlet (*Acipenser ruthenus*) as assessed with biometric and genetic analyses, *EJPAU* 16(3), #01.
- Rząd I., Hofsoe P., **Panicz R.**, Nowakowski J.K. 2013. Morphological and molecular characterization of adult worms of *Leucochloridium paradoxum* Carus, 1835 and *L. perturbatum* Pojmańska, 1969 (Digenea: Leucochloridiidae) from the great tit, *Parus major* L., 1758 and similarity with the sporocyst stages. *Journal of Helminthology*. 88(04): 506-510.
- Rząd I., Sitko J., Kavetska K., Kalisińska E., **Panicz R.** 2013. Digenean communities in the tufted duck [*Aythya fuligula* (L., 1758)] and greater scaup [*A. marila* (L., 1761)] wintering in north west of Poland. *Journal of Helminthology*. 87, 230–239.
- Kempter J., Kielpiński M., **Panicz R.**, Sadowski J., Mysłowski B., Bergmann S. M. 2012. Horizontal transmission of koi herpes virus (KHV) from potential vector species to common carp. *Bulletin of the European Association of Fish Pathologists.*, 32(6): 212-219.
- **Panicz R.**, Hofsoe P., Sadowski J., Mysłowski B., Półgęsek M. 2012. Morphometric and molecular characterisation of *Cyprinus carpio* × *Carassius auratus* hybrids. *Aquaculture International*. 21(4): 751-758.
- Mysłowski B., **Panicz R.**, Sadowski J. Hofsoe P. 2012. Genetic structure of the whitefish (*Coregonus lavaretus*) population inhabiting the Miedwie Lake, Poland, based on partial ND-1 and ITS-1 gene sequences. *Aquaculture International*. 21(4): 739-750.
- **Panicz R.**, Sadowski J., Drozd R. 2012. Genetic and structural characterisation of the growth hormone gene and protein from tench, *Tinca tinca*. *Fish Physiology and Biochemistry*. 38:1645–1653.

- Kempter J., **Panicz R.**, Makowska M., Metza M., Keszka S., Kiełpiński M., Sadowski J. 2011. PCR-RFLP-based molecular studies on inter-population variability in the crucian carp (*Carassius carassius* L.). *Acta Biologica*. 18: 5-15.
- Kempter J., Kohlmann K., **Panicz R.**, Sadowski J., Keszka S. 2010. Genetic variability in European populations of *Coregonus lavaretus* (L.): an assessment based on mitochondrial ND-1 gene haplotypes. *Archives of Polish Fisheries*. 18: 197-204.
- Kempter J., Sadowski J., Szulc J., **Panicz R.**, Kiełpiński M. 2010. Przypadek kliniczny włókniaka u karasia złocistego (*Carassius auratus*). *Medycyna Weterynaryjna* 66 (2): 137-142.
- Kiełpiński M., Kempter J., **Panicz R.**, Sadowski J., Schütze H., Ohlemeyer S., Bergmann S. M. 2010. Detection of KHV in freshwater mussels and crustaceans from ponds with KHV history in common carp (*Cyprinus carpio*). *Israeli Journal of Aquaculture-Bamidgeh* 62 (1): 28-37.
- Kohlmann, K., Kersten, P., **Panicz R.**, Memis, D., Flajšhans, M., 2009. Genetic variability and differentiation of wild and cultured tench populations inferred from microsatellite loci. *Reviews in Fish Biology and Fisheries*. 20:279-288.
- Kempter J., Sadowski J., Schütze H., Fischer U., Dauber M., Fichtner D., **Panicz R.**, Bergmann S. M. 2009. Koi Herpes Virus: Do acipenserid restitution programs pose a threat to carp farms in the disease-free zone? *Acta Ichthyologica et Piscatoria*. 39 (2): 119-126.
- Keszka S., **Panicz R.**, Kempter J. 2009. Eel species identification by polymerase chain reaction followed by restriction fragment length polymorphism (PCR-RFLP). *Medycyna Weterynaryjna*. 65 (5) 315-318.
- Keszka S., **Panicz R.**, Tański A. 2008. First record of the leopard pleco, *Pterygoplichthys gibbiceps* (Actinopterygii, *Loricariidae*) in the Brda River in the centre of Bydgoszcz (northern Poland). *Acta Ichthyologica et Piscatoria*. 38 (2): 135–138.

AWARDS

- Scholarship - RuminOmics Conference Paris (07.11.2015) <http://www.ruminomics.eu/>
- Stanford University (06.07.2015 - 04.09.2015) - two month traineeship as a part of a scholarship program run by the Ministry of Science and Higher Education, "Top 500 Innovators".
- 2015 - individual award of the Rector of the West Pomeranian University of Technology in Szczecin.
- Internship program "Time for internship VI – knowledge transfer between university and business" financed by an EU grant of the European Social Fund within Human Capital Programme (subaction 8.2.1.) Support for cooperation of science sphere and companies. (28.11.2013 - 28.02.2014)
- 2013 - an individual award of the second degree awarded by His Magnificence the Rector of ZUT in Szczecin for scientific achievements in the year 2012

- 2010 - a scholarship awarded by the University of Florida and American Fisheries Society, which made it possible to deliver the lecture “Detection of KHV in Healthy Non-Carp Carrier Fish in Polish Inland Waters by PCR” in the course of the session on virology during the 6th International Symposium on Aquatic Animal Health in Tampa (USA), 5-9 September 2010
- 2007 - a scholarship awarded from the funds of the European Social Fund and the State Budget within the framework of Action 2.6 within the Integrated Regional Operational Program “Regional Innovation Strategies and Transfer of Knowledge” (2007 –2008)

BIODIVERSITY EXPEDITIONS (collection of fish samples)

- 31 October – 21 November 2011 - Morocco, Mauritania, Senegal and Ghana
- 5 – 12 February 2012 - Egypt
- 15 November – 03 December, 2012 - Vietnam and Cambodia
- 9 – 29 March, 2013 - India and Bangladesh
- 16 June – 24 July, 2012 – South Africa, Tanzania, Madagascar
- 01 – 21 October 2013 – Russia, Ukraine, Georgia, Azerbaijan
- 20 February – 01 March 2013 – Namibia

DIAGNOSTICS TRAINING (selected)

- USA, Stanford University, The Stanford Functional Genomics Facility (SFGF), 10.08. – 04.09.2015
- Poland, University of Environmental and Life Sciences in Wrocław. A training course in bioinformatics, 28 January - 01 February 2013
- Poland, Warsaw University of Life Sciences - SGGW, Seminary and Workshop in “Advanced techniques in life sciences research”, 21 - 23 January 2013
- Czech Republic, University of South Bohemia, VIth International Workshop on Biology and Culture of the Tench (*Tinca tinca* L.), 17 - 20 September 2012
- Germany, Riems Island, Federal Research Institute for Animal Health named after Friedrich Loeffler; May - June 2010 for the purpose of participating in common research in the field of measuring gene activity utilising the real-time PCR technique
- Poland, Institute of Botany, Polish Academy of Sciences, A training course in implementing the AFLP technique, 13 - 18 December 2010
- Great Britain, Beckman Coulter; A training course in measuring gene activity utilising the GeXP system, 28 - 30 June 2010
- Great Britain, Beckman Coulter; A training course in sequencing techniques, 09 - 13 November 2009
- Czech Republic, TATAA Biocenter; A training course in conducting real-time PCR, 10 - 12 December 2007
- Poland, A&A Biotechnology; A course in molecular biology – Genotyping, 31 January - 2 February 2007
- Poland, A&A Biotechnology; A course in molecular biology – PCR, 29 - 31 January 2007

- Poland, Forensic Laboratory of the Voivodeship Police Headquarters in Szczecin; Student internship, August 2004

CONFERENCES (selected)

- **25-29.08.2018**
Aquaculture Europe 2018. Montpellier, Francja.
- **17-20.10.2017**
Aquaculture Europe 2017. Dubrovnik. Croatia. Lecture on “Central European perspective on the climate change through CERES project”.
- **09-12.04. 2015**
European Crayfish conference: Research and Management. Landau. Germany. Lecture on “Genetic diversity in natural populations of noble crayfish (*Astacus astacus* L.) in north-western Poland on the basis of combined data from mtDNA, SSR and AFLP”.
- **02-03.12.2014**
„65 let výuky rybářství na Mendelově univerzitě v Brně“. Brno, Czechy. Lecture on “Assessment of genetic diversity of Baltic and Black Sea turbot (*Scophthalmus maximus* (L.)) populations for broodstock development”.
- **09-10.06.2014**
„International Scientific Conference “Molecular Research in Animal Science” Kraków, Poland.
- **24-26.09.2013**
„Diversification in Inland Finfish Aquaculture II (DIFA II)”. Vodňany, Czech Republic. Lectures on „Differences in antioxidant status among important representatives of Cyprinidae, Acipenseridae and Siluridae reared in cage culture”.
- **17-20.09.2012**
“VIth International Workshop on Biology and Culture of the Tench (*Tinca tinca* L.)”. Písek, Czech Republic. Lectures on „Antioxidant enzymes activity in liver and gills of *Tinca tinca* from different water bodies” and „Effect of water temperature on growth hormone and insulin-like growth factor-I in tench (*Tinca tinca*)”.
- **16-18.05.2011**
„Diversification in Inland Finfish Aquaculture (DIFA)”. Písek, Czech Republic. Lectures on “Genetic structure of whitefish (*Coregonus lavaretus*) population in Miedwie lake. - A "new" species in aquaculture” and “Morphometric and molecular characterisation of *Cyprinus carpio* x *Carassius auratus* hybrids”.
- **05-09.09.2010**
“6th International Symposium on Aquatic Animal Health (ISAAH-6)”. Tampa, USA. Lecture on “Detection of KHV in Healthy Non-Carp Carrier Fish in Polish Inland Waters by PCR”.
- **17-19.05.2010**
„First International Conference on the Restoration of Endangered and Extinct Animals”. Jastrzębiec. Poland.
- **03-04.12.2008**
„XI Česká ichtyologická konference. MZLU v Brně”. Brno, Czech Republic. Lecture on “Effect of feeding brook trout (*Salvelinus fontinalis* Mitchell, 1814) reared in cooling water with chosen commercial feeds on basic rearing rates”.
- **29.09-03.10.2008**

„Vth International Workshop on Biology and Culture of the Tench (*Tinca tinca* L.)”. Ceresole d’Alba (Cn), Italy. Article on ”Preliminary study on tench (*Tinca tinca*) growth hormone”.

- **15-18.09.2008**

„Aquaculture Europe 2008”. Krakow, Poland. Article on ”Koiherpes- virus in Poland: diagnostics, methods, carrier species and epizootic map of the Odra River drainage area”.

- **12-17.07.2008**

„XX International congress of genetics”. Berlin, Germany.

- **23-25.10.2007**

„International Symposium on Animal Genomics for Animal Health”. Paris, France. Articles on “Koi-herpes-virus in Poland; diagnostics methods, carrier species and epizootic map of the Odra River drainage area” and “First detection and isolation in Europe of white sturgeon iridovirus (WSIV) in Russian sturgeon (*Acipenser gueldenstaedtii*), Siberian sturgeon (*Acipenser baerii*) and Atlantic sturgeon (*Acipenser oxyrinchus*)”.

SOCIETIES, ASSOCIATIONS

- European Association of Fish Pathologists (2017 -)
- Polish Society for Conservation Genetics LUTREOLA (2016 -) – Chairman of the Scientific Council
- Polish Society of Food Technologists (2016 -)

LANGUAGE PROFICIENCY:

- Polish (mother tongue)
- English – advanced
- French - basics

TEACHING EXPERIENCE

- Genetics
- Cell biology
- Nutrigenomics
- Bioinformatics
- Fish genetics and selection
- Population genetics (animal selection)

RESEARCH INTERESTS

- Molecular biology
- Population genetics
- Evolutionary ecology
- Molecular phylogenetics
- Nutrigenomics
- Fish diseases