


## CURRICULUM VITAE

*University of South Bohemia in České Budějovice (USB), Faculty of Fisheries and Protection of Waters (FFPW), South Bohemian Research Center of Aquaculture and Biodiversity of Hydrocenoses (CENAKVA), Research Institute of Fish Culture and Hydrobiology (RIFCH)*

Personal information	
Name and surname:	<b>Prof. Dipl.-Ing. Otomar Linhart, DSc.</b>
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Science and research results:
<p><b>1) Publications on Web of Science (WOS) - 202</b></p> <p><b>2) Sum of times cited (4452) without self-citations from WOS, all data base – 3606</b></p> <p><b>3) Average citations per item from WOS – 22.04</b></p> <p><b>4) h index from WOS – 36</b></p> <p><b>5) The best cited paper – 232 citations:</b>            Billard, R., Cosson, J., Perchec, G., <b>Linhart, O.</b>, 1995. Biology of sperm and artificial reproduction in carp. <i>Aquaculture</i>, 129: 95-112, IF 2018 = 3.022.</p> <p><b>6) The best cited paper published within 8 years – 77 citations:</b>            Hatef, A., Alavi, S.M.H., Abdulfatah, A., Fontaine, P., Rodina, M., <b>Linhart, O.</b>, 2012. Adverse effects of Bisphenol A on reproductive physiology in male goldfish at environmentally relevant concentrations. <i>Ecotoxicology and Environmental Safety</i> 76: 56-62, IF 2018 = 4.460.</p> <p><b>7) The best cited paper where Linhart is the first author – 138 citations:</b>  <b>Linhart, O.</b>, Rodina, M., Cosson, J., 2000. Cryopreservation of sperm in common carp <i>Cyprinus carpio</i>: Sperm motility and hatching success of embryos. <i>Cryobiology</i>, 41, 241-250, IF 2018 = 2.141.</p> <p><b>8) The highest IF of the published paper:</b>            Siddique, M.A.M., Psenicka, M., Cosson, J., Dzyuba, B., Rodina, M., Golpour, A., <b>Linhart, O.</b>, 2016. Egg stickiness in artificial reproduction of sturgeon: an overview. <i>Reviews in Aquaculture</i> 8(1): 18-29, doi: 10.1111/raq.12070, citations 9x, IF 2018 = 7.19.</p> <p><b>9) Published 11 chapters in books, 12 methodologies and technologies, 1 utility model, 2 trademarks, 1 registered breed of common carp, 2 submitted patents;</b></p>

### **Current Scientific Research Program:**

Induced spermiation, preservation and cryopreservation of gametes, artificial insemination, evaluation quantity and quality of spermatozoa, proteomics analysis in seminal plasma, structure of gametes, diversity of bioenergetics pathways in sperm, membrane functions and signaling mechanisms in sperm, genome manipulation, genetic diversity with breeding programs, caviar preparation in fresh water fish species.

### **Education:**

**Professor (2006)** - University of South Bohemia in České Budějovice, Agriculture Faculty, specialization animal breeding.

**Associate Professor (2000)** - University of South Bohemia in České Budějovice, Biological Faculty, molecular biology and genetics.

**Doctor of Science (DSc., 1996)** - Institute of Animal Breeding, Prague, specialization animal breeding.

**Doctor of Philosophy (PhD., 1992)** - Institute of Animal Physiology and Genetics, CAS, Libečov, specialization animal breeding.

**Master of Science (Dipl.-Ing., 1981)** - University of Agriculture, Brno, specialization fishery.

### **Work experience in the Czech Republic:**

**1992 – present:** Senior scientist, University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters, Research Institute of Fish Culture and Hydrobiology, Vodňany.

**2010 – 2019:** Director of CENAKVA CZ.1.05/2.1.00/01.0024, University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters.

**2009 – 2017:** Dean of Faculty of Fisheries and Protection of Waters, University of South Bohemia in České Budějovice.

**2009 – 2016:** Member of Presidium of Czech Grant Agency, responsible for Agricultural, Biological and Environmental Sciences.

**2007 – 2011, 2015 – 2016:** Head of Physiology Reproduction laboratory of RIFCH FFPW USB in Vodňany

**2005 – 2009:** Director of Research Institute of Fish Culture and Hydrobiology (RIFCH), University of South Bohemia in České Budějovice, Vodňany.

**2002 – 2005:** Head of joint laboratory “Genetics, Physiology and Fish Reproduction”, IAPG AS ČR and RIFCH USB

**1996 – 1999:** Scientific secretary, Research Institute of Fish Culture and Hydrobiology, South Bohemia University in České Budějovice, Vodňany.

**1994 – 2005:** Head of Department “Fish Genetics and Breeding”, Research Institute of Fish Culture and Hydrobiology, South Bohemia University in České Budějovice, Vodňany.

**1985 – 1992:** Junior scientist, Research Institute of Fish Culture and Hydrobiology, Vodňany, Czechoslovakia.

**1981 – 1985:** Fellowship, Research Institute of Fish Culture and Hydrobiology, Vodňany, Czechoslovakia.

### **Work experience in France and Singapore (total 3.5 years):**

**1997 (3 months):** Postdoctoral position, Biological School, University of Singapore, Singapore.

**1993 - 1995 (2.5 years):** Associate Professor, Plateforme de Biotechnologie (Prof. M. Pouplard), Reproduction et génétique du poisson, Université d'Angers, Fac. de sciences, France.

**1990 - 1992 (3 months every year):** Fellowship, research assistant and Assoc. Prof., Muséum National d'Histoire Naturelle, Labo. Ichthyologie Générale et Appliquée (Prof.R.Billard), Paris.

### **Experience with research projects in the Czech Republic within the last ten years**

**2020 – 2022:** responsible leader, “**Epigenetic modifications and functional properties during fish gamete ageing**”, 20-01251S. *Supported by the Grant Agency of the Czech Republic.*

**2019 – 2022,** responsible leader, ESFRI, “South Bohemian research center of aquaculture and biodiversity of hydrocenoses” (CENAKVA), *Supported by MEYS.*

**2014 – 2018,** responsible leader, “Sustainability and Excellence of the Center of Aquaculture and Biodiversity of Hydrocenoses.” - NPU I, LO1205, *Supported by MEYS.*

**2012 – 2015,** responsible leader, “The creation of postdoc positions at the University of South Bohemia and the support of intersectional mobility by expert stays at the foreign leading R&D institutions”, CZ.1.07/2.3.00/30.0006. *Supported by the Ministry of Education, Youth and Sports (MEYS).*

**2011 – 2014:** responsible leader, “Strengthening of excellence scientific teams in FFPW USB”, CZ.1.07/2.3.00/20.0024. *Supported by the MEYS.*

**2010 – 2013:** responsible leader, “South Bohemian research center of aquaculture and biodiversity of hydrocenoses” (CENAKVA), CZ.1.05/2.1.00/01.0024. *Supported by the MEYS.*

**2005 – 2011:** responsible leader of institutional research plan, “Biological, environmental and breeding aspects in fish culture”, MSM6007665809. *Supported by the MEYS.*

**2006 – 2011:** responsible leader for a part solved at FFPW USB, “Centre for Research of Biodiversity”, LC06073. *Supported by the MEYS.*

**2008 – 2012:** responsible leader, “Research of sperm and embryo cryopreservation”, QH82119. *Supported by the National Agency for Agriculture Research.*

**2008 – 2012:** responsible leader, “Diversity of bioenergetics pathways, membrane function, signaling mechanism and proteomics of cryopreserved sperm of evolutionary different fish species”, IAA608030801. *Supported by the Grant Agency of the Czech Academy of Science.*

**2010 – 2012:** responsible leader, “Reproduction and genetics of selected model species of teleostean and chondrosteian fish”, 046/2012/Z. *Supported by the Grant Agency of South Bohemian University.*

**2006 – 2008:** responsible leader, “Ultrastructure, energetic and competition in spermatozoa: A comparative study using two model species of chondrosteian and teleostean fishes”, 524/06/0817. *Supported by the Grant Agency of the Czech Republic.*

**2003 – 2005:** responsible leader, “Detailed study of spermatozoa in model species of cartilaginous (*Chondrostei*) and bony (*Teleostei*) fishes”, 524/03/0178. *Supported by the Grant Agency of the Czech Republic.*

## Experience with the research projects supported by European Commission, France and USA

- 2015 – 2020: responsible leader for a part solved at Czech Republic, partner FFPW USB** (totally 22 partners from 13 countries), “Aquaculture infrastructures for excellence in European fish research”, AQUAEXCEL 2020. *HORIZON 2020*, coordinated by dr. Marc Vandeputte, INRA, France.
- 2015 – 2018: responsible leader for a part solved at Czech Republic, partner FFPW USB** (totally 9 partners from 7 countries) Marie Curie projekt IMPRESS 642893 Improved production strategies for endangered freshwater species. *HORIZON 2020*.
- 2011 – 2015: responsible leader for a part solved at Czech Republic, partner FFPW USB** (totally 17 partners from 10 countries), “Aquaculture infrastructures for excellence in European fish research”, AQUAEXCEL. *Seventh Framework Programme EU*, coordinated by dr. Marc Vandeputte, INRA, France.
- 2004 – 2007: responsible leader for a part solved at Czech Republic, partner RIFCH USB**, “Securing juvenile production of Eurasian perch by improving reproduction and larval rearing”, COOP-CT-2004 512629. *Sixth Framework Programme EU*, coordinated by prof. Pascal Fontaine, University of Henri Poincaré, Nancy, France.
- 2005 – 2006: researcher**, “Intensive and sustainable culture of the freshwater species tench”, COOP-CT-2004 512575-PROTENCH. *Sixth Framework Programme EU*, coordinated by prof. Modesto Duran, GESINFIN, Spain.
- 1998 – 2004: co-leader in two USDA projects** focused on development of paddlefish breeding for caviar production, *Kentucky State University (KSU), Aquaculture Research Center, Frankfort, Kentucky (USA)*, coordinated by prof. Steve Mims, KSU, USA.
- 1994 – 1997: permanent member of the network** “Genetic and Reproduction Studies of European Silurid Fishes focused on research of European catfish” CEC grant No CIPA - CT 93 - 0274, *Fourth Framework Programme EU*, coordinated by prof. Costas Trintaphyllidis, Greece.
- 1993 – 1994: leader of sub-project** “Reproduction et manipulation chromosomique du silure glane”, project in Protogoras, France, **Supported - Minister de l’Enseignement Supérieur et de la Recherche, France.**
- 1995: leader of sub-project**, “Reproduction et triploidisation du silure glane”, project in Protogoras, France, **Supported - Minister de l’Enseignement Supérieur et de la Recherche, France.**
- 1992 – 1994: leader in Czechoslovakia/Czech Republic**, “The effect of growth rate on gonadal differentiation and sex reversal of common carp and tench” **Collaborative Research under National Science Foundation (NSF) USA - Eastern European Co-operative Science Programs.** Leader in USA prof. Bill Shelton, *Oklahoma University, USA.*

## Experience with other international research projects

- 11/2012 – 12/2016: co-leader in Czech Republic**, Aquatic gametes as model for fundamental cell motility studies, FA 1205. *Programme COST*, coordinated by prof. Dr. Juan F. Asturiano, Spain.
- 2010 – 2012: responsible leader**, “The using of sex reverse and proteomic analysis in frozen sperm of paddlefish for production of caviar”, ME10015. *Bilateral projects – Programme KONTAKT.* Supported by the MEYS.

- 2005 – 2007:** responsible leader, “Short term storage and cryopreservation of fish embryos”, **ME855. Bilateral Czech – Chine projects – Programme KONTAKT. Supported by the MEYS.**
- 2004 – 2005:** responsible leader, “Determination of suitable selection scheme for improved growth in common carp”, **2004-044-1. Bilateral Czech - France projects – Programme KONTAKT. Supported by the MEYS.**
- 1999 – 2004:** responsible leader “Cooperation in the program of tench breeding”, *Bilateral projects – Programme KONTAKT, MEYS with Hydrobiology Institute of Academy of Sciences, Wuhan, China.*
- 1999 – 2003:** responsible leader, “Work on the project for development of carp breeding”, *Bilateral projects – Programme KONTAKT, MEYS with Metropolitan University, Mexico City.*

### **Relevant experience in the Czech Republic**

- 2017 - present:** Member of committee for Agricultural, Biological and Environmental Sciences (OK5) of GA ČR, *Grant Agency of the Czech Republic.*
- 2016 – present:** Member of the evaluation committee of *National Agency for Agricultural Research (NAZV) at Ministry of Agriculture Czech Republic.*
- 2017 – present:** Board member of PhD studies of Fishery, *University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters.*
- 2004 – 2014:** Board Chairman of PhD studies of Fishery, *University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters.*
- 1996 - 2000, 2006 – present:** Member of scientific board of University of South Bohemia in České Budějovice, *University of South Bohemia in České Budějovice.*
- 1990 – 1993, 1995 – present:** Member of scientific board of RIFCH, RIFCH USB and FFPW USB.
- 2005 – 2017:** Chairman of scientific board of RIFCH USB and FFPW USB.
- 2006 – 2013:** Member of the committee for protective and careful procedures in activities of National Agency for Agricultural Research (NAZV) at Ministry of Agriculture, *National Agency for Agricultural Research.*
- 2008 – 2009:** Member of committee for agricultural sciences (OK5) of GA ČR, *Grant Agency of the Czech Republic.*
- 2007 – 2018:** Member of the editorial board of the Czech Journal of Animal Science.
- 2007 – 2011:** Member of the Administrative Board, Biology Centre AS CR in České Budějovice.
- 2013 – 2018:** Member of the Administrative Board, Biotechnology Institute AS CR in Prague
- 1998 – 2004; 2007 – 2011:** Member of the scientific board of the Institute of Animal Physiology and Genetics AS CR in Liběchov.
- 2005 – 2006:** Participated in preparation of Operation Program of Fishery, *Ministry of Agriculture of the Czech Republic.*
- 1991 – 1993:** Member of Scientific Board of Research Institute of Animal Production, Prague-Uhřetěves.

### **Relevant experience abroad**

- 2014 – present: Int Advisory Committee** Member of the Biological Resource Centers for Domestic Animals, INRA, Paříž.
- 2013 – present (2020):** International scientific board, Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin.
- 2014 – 2017: Int Advisory Committee** Member of the *Innovative model & demonstration based water management for resource efficiency in integrated multitrophic aquaculture and horticulture systems*. **Project of Seventh Framework Programme EU.**
- 2007 – present:** Member of the editorial board of Journal of Applied Ichthyology, Germany.
- 2003 – 2004:** Co-editor in scientific magazines Aquatic Living Resources, France and Aquaculture International, Belgium.
- 1996 – present:** Member of European and World Aquaculture Society and Association for Cryobiology, UK.
- 1993 – 1996:** Member of scientific board of PROTAGORAS regional association within the scope of Pays de la Loire, France.

#### **Teaching in the Czech Republic**

- 2009 – present:** Faculty of Fisheries and Protection of Waters, *University of South Bohemia in České Budějovice.*
- 1997 – 2009:** Faculty of Agriculture of University of South Bohemia, *University of South Bohemia in České Budějovice.*
- 1998 – 2003:** Faculty of Science, *University of South Bohemia in České Budějovice.*

#### **Teaching abroad**

- 1998 – 2002:** Leader of course “Reproduction and genetics”, *Programme CONASYT, Metropolitan University, Mexico City.*
- 1997:** course, Physiology of tilapia reproduction, *National University of Singapore.*
- 1993 – 1994:** Teaching of Aquaculture, *Angers University, Faculty of Science, France.*

#### **Supervisor of BSc. theses**

- 2012 – present:** 3 students, *University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters, Czech Republic*
- 1994 – 1995:** 3 students, *University of Catholic, Angers, France.*

#### **Supervisor of MSc. theses**

- 1997 – 2006:** 7 students *University of South Bohemia in České Budějovice, Faculty of Agriculture, České Budějovice, Czech Republic*
- 1986 – 1997:** 4 students, *University of Agriculture, Brno, Czech Republic.*

#### **Supervisor of PhD. theses**

- 2004 – present:** 12 students, Faculty of Fisheries and Protection of Waters, *University of South Bohemia in České Budějovice, Czech Republic*
- 2019 – present:** 1 student, Faculty of Aquatic Sciences, *Istanbul University, Turkey*

**2001 – 2006:** 1 student, Faculty of Science, *University of South Bohemia in České Budějovice, Czech Republic*

**1999 – 2007:** 2 students, *University of South Bohemia in České Budějovice, Faculty of Agriculture, České Budějovice, Czech Republic.*

**Significant appreciation:**

**2013** - Significant person of South Bohemia - appreciation by the Governor of the South Bohemian Region, Czech Republic.

**2018** - Significant person of Strakonice department - Chamber of Commerce Strakonice, Czech Republic.

**2018-2019** - Commemorative Medal of the Rector of the USB and the Dean of the FFPW USB for the development of the Faculty of Fisheries and Protection of Waters.

**2019** - Professor honoris causa at Szent István University in Godollo, Hungary.