

CURRICULUM VITAE – TOMÁŠ POLICAR

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Scientometric indicators	
Total number of publications on WoS	151
IF range of published papers	0.235 – 7.190
H-index	24
Total number of citations according to WoS	1986
Total number of citations without self-citations according to WoS	1461
Total number of citations according to WoS for 2022	228
Average citation rate per publication	13.15
Also published: 1 book as co-author, 5 chapters in books, 1 Czech patent, 1 utility model, 16 certified methodologies, 10 verified technologies, and 1 large-scale handbook	
Oral presentations at international conferences	35

Current scientific research interest

Optimization of aquaculture production systems, species diversification of inland aquaculture, long-term sustainable aquaculture, innovation of reproduction and culture of percid fish, controlled reproduction of other fish species including induction of their out-of-season spawning, domestication of fish, intensive aquaculture of fish and crayfish, production of monosex and polyploid populations of percid fish

Top three scientific publications

Pěnka, T., Malinovskyi, O., Imentai, A., Kolářová, J., Kučera, V., **Policar, T.**, 2023. Evaluation of different feeding frequencies in RAS-based juvenile pikeperch (*Sander lucioperca*) aquaculture. *Aquaculture* 562: 738815. (IF 2022 = 4.500; AIS 2022 = 0.602)

Rahimnejad, S., Leclercq, E., Malinovskyi, O., Pěnka, T., Kolářová, J., **Policar, T.**, 2023. Effects of yeast hydrolysate supplementation in low-fish meal diets for pikeperch. *Animal* 17: 100870. (IF 2022 = 3.600; AIS 2022 = 0.670)

Imentai, A., Gilannejad, N., Martínez-Godríguez, G., Moyano López, F.J., Martínez, F.P., Pěnka, T., Dzyuba, V., Dadras, H., **Policar, T.**, 2022. Effects of first feeding regime on gene expression and enzyme activity in pikeperch (*Sander lucioperca*) larvae. *Frontiers in Marine Science*, 9: 864536. (IF 2021 = 5.247; AIS 2021 = 1.340)

The three best results of applied research

Policar, T., Křišťan, J., Malinovskyi, O., Pěnka, T., Kolářová, J., 2021. Optimalizovaná reprodukce a efektivní chov candáta obecného (*Sander lucioperca*) zajišťující produkci kvalitního násadového materiálu. [Optimized reproduction and efficient culture of pikeperch (*Sander lucioperca*) ensuring the production of high quality material for restocking.] Edition of handbook, FFPW USB, Vodňany, 187: 66 p. In Czech

Yanes–Roca, C., Profant, V., **Policar, T.**, 2020. Masová produkce vířníků (*Brachionus plicatilis*) a jejich využití kodchovu larev candáta obecného (*Sander lucioperca* L.). [Large scale production of rotifers (*Brachionus plicatilis*) and their use for pikeperch (*Sander lucioperca* L.) larval culture.] Edition of handbook, FFPW USB, Vodňany, 185: 42 p. In Czech

Policar, T., Křišťan, J., Hampl, J., Blecha, M., Kolářová, J., 2018. Provozní manuál sloužící k efektivnímu provozu intenzivní akvakultury využívající RAS. [Practical manual for efficient operation of intensive aquaculture using RAS]. Edition of handbook, FFPW USB, Vodňany, 169: 54 p. In Czech

Education

School, Institution [Date from–to]	Academic degree
2023 professorship, appointment by the President of the Czech Republic on the proposal of the Scientific Board of the University of South Bohemia (USB) in České Budějovice, field: Fisheries	prof.
2009 habilitation, University of South Bohemia in České Budějovice, Research Institute Fish Culture and Hydrobiology (RIFCH USB), field: Fisheries	Assoc. prof.
2000–2004 distance doctoral study at the University of South Bohemia in České Budějovice, Faculty of Agriculture (FA USB), field: Special	Ph.D.

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1993–1998 University of South Bohemia in České Budějovice, Faculty of Agriculture, specialization: Use and protection of agricultural landscapes	Dipl.-Ing.

Work classification and experience in the Czech Republic

Period	Place	Company	Position	Description of the performed activity
1998–2000	Vodňany	RIFCH USB	technician	technical support of experiments
2000–2004	Vodňany	RIFCH USB	researcher of the Department of Aquaculture and Hydrobiology	scientific research activity
2004–present	České Budějovice and Vodňany	FFPW USB FA USB	academic staff	teacher of subjects: Basic biology of tropical fish species, Intensive aquaculture, New approaches in aquaculture of supplemental fish species, and Ornamental aquaculture at FA USB (until 31 August 2009) and at FFPW USB within the Bachelor's degree in Fisheries and the Master's degree in Fisheries and Water Protection
2006–2009	Vodňany	RIFCH USB	deputy head of the Department of Aquaculture and Hydrobiology	co-management of the scientific and research department
2008–2014	Vodňany	FFPW USB (RIFCH USB)	vice dean for science and research also responsible for foreign relations (scientific secretary)	management and organization of scientific research activities, applied research and development of foreign relations
2009–2014	Vodňany	FFPW USB	secretary of the Scientific Board	management and organization of the scientific board
2009–2012	Vodňany	FFPW USB (RIFCH USB)	editor-in-chief of the professional journal Bulletin VÚRH and chairman of the Editorial Board	methodological guidance of the editorial board and authors of individual publications
2009–present	Vodňany	FFPW USB (RIFCH USB)	head of Laboratory of Intensive Aquaculture	leading of the scientific research laboratory
2014–present	Vodňany	FFPW USB	member of the Scientific Board	discussion of strategic, pedagogical, and scientific-research matters

2014–2022	Vodňany	FFPW USB	chairman of the Departmental Council of doctoral studies in the field of Fisheries	teaching and management of Ph.D. students
2016–2022	Vodňany	FFPW USB	guarantor of the doctoral studies in the field of Fisheries	teaching and management of Ph.D. students
2017–2022	Vodňany	FFPW USB	member of Academic Senate	academic initiative and control function
2017–present	Prague	Ministry of Agriculture CZ	member of the Expert Group and Monitoring Committee of the OP Fisheries	expert consultation and management of the OP Fisheries
2017–present	České Budějovice	USB	chairman or member of the Technical and Application Committee of GAJU	evaluation of scientific projects prepared by Ph.D. students
2020–present	Prague	Czech University of Life Sciences	member of the Departmental Council of doctoral studies in the field of Applied zoology	teaching and management of Ph.D. students
2022–present	Vodňany	FFPW USB	member of the Departmental Council of doctoral studies in the field of Fisheries	teaching and management of Ph.D. students
2023–present	Prague	National Agency of Agricultural Research and Czech Technology Agency	evaluator, reporter, and member of the Expert Advisory Board for the evaluation of the project proposals	expert assessment and evaluation of scientific project proposals

Internships and practice abroad

Period	Place	Institution/Company	Position	Description of the performed activity
2003 (1 week)	Augsburg, Germany	Max Keller Noble crayfish farm	Ph.D. internship	the study of reproduction and methods of intensive crayfish culture
2003 (1 week)	Moscow, Russia	Russian Federal Research Institute of Fisheries and Oceanography (VNIRO)	Ph.D. internship	the controlled reproduction of narrow-clawed crayfish and determination of fish age by otoliths

2005 (2 weeks)	Nancy, France	University of Lorraine, Animal and Functionality of Animal Products Research Unit (URAFPA)	scientific internship during the solving of EU project	the realization of off- season spawning of Eurasian perch
2006 (2 weeks)	Nancy, France	University of Lorraine, Animal and Functionality of Animal Products Research Unit (URAFPA)	scientific internship	the oocyte quality monitoring after off- season spawning of Eurasian perch
2006 (2 weeks)	St. Petersburg, Russia	Russian Academy of Science, Scientific Research Centre for Ecological Safety	scientific internship	the monitoring cardiac activity in experimental crayfish depending on the different quality of the water environment
2007–2008 (14 weeks)	Dundrum, Northern Ireland and Dundalk, Ireland	Aquaculture Initiative	postdoc internship	the solution of the Interreg IIIA project Great Britain – Ireland, n. 36975 Cross Border Crayfish project
2009 (2 weeks)	Fivemiletown Northern Ireland and Arvagh, Ireland	Aquaculture Initiative	scientific internship	the optimization of intensive culture of Eurasian perch larvae
2010 (2 weeks)	Guelph, Canada	University of Guelph, Axelrod Institute of Ichthyology	scientific internship	the study of the embryonic development of the annual hawksbills and the evaluation of the quality of their eggs and embryos
2011 (3 weeks)	Cherson, Ukraine	Kherson Agricultural University	scientific internship	the occurrence monitoring of crayfish with a special focus on the occurrence and study of the reproduction and biology of the thick- clawed crayfish
2013 (2 weeks)	Kyjev and Cherson, Ukraine	Research Institute for Fisheries; Kherson Agricultural University	scientific internship	the project solution OP Fisheries CZ.1.25/3.1.00/12.00095 "Feasibility study of partnership with Ukraine"
2015 (2 weeks)	Nancy, France	University of Lorraine, Animal and Functionality of Animal Products Research Unit (URAFPA)	scientific internship	the implementation of the experiment with the reproduction of domesticated and wild pikeperch populations
2016 (2 weeks)	Columbus, USA	The Ohio State University	scientific internship	the intensive production of rotifers <i>Brachionus plicatilis</i> and the implementation of off-

				season spawning of yellow perch
2016 (2 weeks)	Parma, Italy	University of Parma	scientific internship	the cooperation on the solution of the project LIFE13 NAT/IT/001129 BARBIE
2017 (2 weeks)	Sarasota, USA	Mote Marine Laboratory and Aquarium	scientific internship	the artificial reproduction of largemouth bass including evaluation of the quality of larvae
2017 (2 weeks)	Lusaka, Zambia	Zambian Ministry of Fisheries and Livestock	scientific internship	the Czech delegation under the patronage of the Minister of Agriculture of the Czech Republic
2018 (1 weeks)	Holar and Reykjavik, Iceland	Holar University College	scientific internship	the study of different intensive aquaculture systems
2018 (2 weeks)	Astana and Almaty, Kazakhstan	Saken Seifullin Kazakh Agrotechnical University in Astana; Kazakh National Agrarian University in Almaty	scientific internship	the reproduction and culture of pikeperch and the study of the biology of the Balchash perch
2019 (3 weeks)	Hanoj/Tú Son, Northern Vietnam	Research Institute for Aquaculture No1	scientific internship	the innovation of aquaculture systems in Northern Vietnam and the Czech Republic
2021 (1 week)	Astana, Kazakhstan	Saken Seifullin Kazakh Agrotechnical University in Astana	scientific internship	the implementation of off-season spawning and innovation of intensive larval culture in pikeperch in RAS
2023 (2 weeks)	Northern and Central Vietnam	Research Institute for Aquaculture No1	scientific internship	the collection of fish samples for the Fish Muscle Atlas, preparation of a bilateral project

Experience with national projects only as a responsible (main) applicant

Period	Name of the project	Provider/number of the project
2003	Controlled reproduction of the critically endangered crayfish <i>Astacus astacus</i> L. under controlled conditions	GAUSB, individual project 38Ú2002/P-VÚRH
2006–2008	Evaluation of the growth and reproductive performance of common barbel (<i>Barbus barbus</i> L.) under intensive and controlled conditions	GAČR, 523/06/P142

2006–2009	Use of noble crayfish (<i>Astacus astacus</i> L.) as a valuable bioindicator of water quality and support of its occurrence	MEYS CZ, Contact project ME 855
2010	Balanced production of pikeperch (<i>Sander lucioperca</i>) juveniles achieved by culture innovation	OP Fisheries, pilot project CZ.1.25/3.4.00/09.00527
2010–2012	Modern methods of intensive culture of native European crayfish with the aim of support their occurrence in open waters and using their bioindicative values with regard to the quality of waters	MEYS CZ, Contact project ME10125
2010–2013	South Bohemian Reserch Center of Aquaculture and Biodiversity of Hydrocenoses, program 3: Innovation of intensive, high-quality, and genetically sustainable production of economically important fish species	MEYS CZ, CENAKVA CZ.1.05/2.1.00/01.0024,
2010–2014	Development and optimization of methods of intensive culture of pikeperch (<i>Sander lucioperca</i>) and Eurasian perch (<i>Perca fluviatilis</i>) in the Czech Republic	NAAR, project QI101C033
2011	Optimization of the technology for the production of high-quality advanced juveniles of Eurasian perch intended for further intensive breeding	OP Fisheries, pilot project CZ.1.25/3.4.00/10.00321
2012	Development of food adaptation technology of Northern pike larvae to pellet feed and intensive culture under RAS	OP Fisheries, pilot project CZ.1.25/3.1.00/11.00271
2012	Optimization of the technology for high-quality and well-balanced production of stock material of Northern pike	OP Fisheries, pilot project CZ.1.25/3.4.00/11.00397
2013	Feasibility study of partnership with Ukraine	OP Fisheries, pilot project CZ.1.25/3.1.00/12.00095
2013–2014	Validation of technology for successful spawning and production of juveniles in burbot	OP Fisheries, pilot project CZ.1.25/3.4.00/12.00118
2013–2015	Optimization and performance of our season spawning in pikeperch under controlled RAS conditions	OP Fisheries, pilot project CZ.1.25/3.1.00/13.00466
2013–2015	Optimization of basic culture aspects in pond and intensive aquaculture	GAUSB, team project 074/2013/Z
2014	Support of pond periphyton with the aim to use the pond trophy for the production of juvenile pikeperch	OP Fisheries, pilot project CZ.1.25/3.4.00/13.00460
2014–2015	Optimization of the nutrition in juvenile and older categories of pikeperch cultured under RAS	OP Fisheries, pilot project CZ.1.25/3.1.00/13.00499
2014–2015	The technological innovation for the adaptation of burbot to pelleted feed and its intensive culture	OP Fisheries, pilot project CZ.1.25/3.4.00/12.00121
2014–2016	South Bohemian Reserch Center of Aquaculture and Biodiversity of Hydrocenoses, program 3: Long sustainable aquaculture	MEYS CZ, CENAKVA II, NPU I – LO1205
2016–2017	Large-scale application of the ozone use under intensive fish farming	OP Fisheries, innovative project CZ.10.2.101/2.1/0.0/15_001/0000044
2017–2021	The use of new biotechnological procedures under	NAAR, project QK1710310

	the conditions of Czech aquaculture with the aim of achieve the effective, high-quality and environmentally friendly fish production	
2018-2020	Technical and technological innovation of intensive fish farming based on new knowledge providing the efficient and stable production	NAAR, project QK1820354
2019-2021	Optimization of long-term sustainable and efficient production of stocking material of highly valuable fish species	Ministry of Agriculture CR, project according to the contract y:561-2018-15121
2019-2021	Adaptation and intensive culture of largemouth bass	OP Fisheries, innovative project CZ.10.2.101/2.1/0.0/18_013/0000793
2019-2021	Optimization of Danish-type RAS operation providing the increased and high-quality production of salmonids	OP Fisheries, innovative project CZ.10.2.101/2.1/0.0/18_013/0000773
2021-2023	Innovation of the larval, juvenile, adult and broodstock populations of grayling	OP Fisheries, innovative project CZ.10.2.101/2.1/0.0/20_018/0001225
2022-2024	Species and technological diversification of production fisheries in the Czech Republic with the aim of supporting its efficiency and competitiveness	NAAR, project QK22020144
2023-2024	Optimization of the intensive farming of juvenile pikeperch in the RAS to support the production of marketable fish about 1 kg	OP Fisheries, innovative project CZ.08.02.01/01/23_005/0000200

Experience with international projects

Period	Name of the project	Type and number of the project	Role in the project
2004-2006	Securing juvenile production of Eurasian perch by improving reproduction and larval rearing	EU project FP6, CRAFT, COOP-CT-2004-512629, PERCATECH	responsible researcher for WP 6 „Production of juvenile with improved performances” from FFWP USB
2007-2009	Cross Border Crayfish project	Interreg IIIA project Great Britain – Ireland, n. 36975	responsible researcher for the whole project
2013	Reproduction of pikeperch	TNA project 0031/03/09/24a v rámci AQUAEXCEL projektu	responsible researcher for the whole project
2013-2016	Traditional Food Network to improve the transfer of knowledge for Innovation	EU project, FP7-KBBE-2013-7, n. 613912 TRAF00N	responsible researcher for the whole WP 3 „Aquaculture and fish products“
2014	Pikeperch juvenile production	TNA project 0053/04/09/24c v rámci AQUAEXCEL projektu	responsible researcher for the whole project
2015-2020	AQUAEXCEL 2020 „Aquaculture infrastructures for excellence in European	EU project, Horizon 2020, INFRAIA-1-2014-2015, n. 652831	responsible researcher for WP 6 „Experimental Fish Management“ from FFWP USB

	fish research		
2016–2018	Conservation and management of <i>Barbus meridionalis</i> and <i>Barbus plebejus</i> in the Emilian tributaries of Po River	Project LIFE13 NAT/IT/001129 BARBIE	responsible researcher for contract research from FFWP USB

The most important commercial study

Period	Description of the performed activity	Company	Reference
2010–present	Technology Innovation in supplemental fish species production such as Eurasian perch, pikeperch, Northern pike, grass carp and burbot	Fishery Nové Hradý Ltd., Nové Hradý, CZ	Lubomír Zvonař, email: rybarstvi@rybarstvinovehrady.cz
2012–2017	Optimization of juvenile production in pikeperch under RAS conditions	Asialor Sarl., Dieuze, Francie	Kevin Debes, email: asialor.kevindebes@yahoo.fr
2014–2015	Optimization of off-season spawning in pikeperch RAS culture with continuous production of larvae and juveniles	FISH farm Bohemia Ltd., Rokytno, CZ	Martin Junek, email: kinc@seznam.cz
2015–2018	Optimization of off-season spawning in pikeperch RAS culture with continuous production of larvae and juveniles	Fischzucht Rietschen Farm Ltd., Rietschen, Německo	Karsten Tusche, email: fischzucht-rietschen@t-online.de
2015–2017	Optimization of juvenile production in pikeperch under RAS conditions	Tropenhaus Frutigen AG, Frutigen, Švýcarsko	Paul-Daniel Sindilariu, email: pauldaniel.sindilariu@tropenhaus-frutigen.ch
2018	Optimization of the nitrification and denitrification process in intensive fish farming	Tilapia Ltd., Tábor, CZ	Jan Hora, email: hora@horajan.cz
2021	Optimization of juvenile production in pikeperch under RAS conditions	Swifish AG, Susten, Switzerland	Martin Vestergard, email: vestergard@swifish.ch
2023	Optimization of off-season spawning in pikeperch RAS culture with continuous production of larvae and juveniles	FTN-AquaArt AG, Rafz Switzerland	Lukas Schneeberger, email: lukas.schneeberger@ftn-aquaart.com

Teaching and pedagogical activities in the Czech Republic

Period	Description of the performed activity	Institution
2003–present	supervisor of MSc. thesis, in total of 16 students: Václav Simon, Antonín Vavrečka, Petr Trnka, Pavel Benedikt, Miroslav Blecha, Jiří Hájiček, Michal Chtěborský, Jan Hampl, Jakub Vlček, Jakub Morava, Tomáš Plaňanský, Petr Hanzlík, Dominik Boňko, Vít Profant, Pavel Švejda and Lukáš Gerža	FA USB / FFPW USB
2004–2014 and 2022–present	guarantor and teacher of the subject “Ornamental Aquaculture”	FFPW USB
2006–present	guarantor and teacher of the subject “Basic Biology of Tropical Fish”	FA / FFPW USB
2008–present	supervisor of Bc. thesis in total in 8 students: Pavel Benedikt, Miroslav Blecha, Jiří Hájiček, Dagmar Jablonická, Tomáš Dušek, Jan Hampl, Michal Chotěborský and Jakub Vlček	FFPW USB
2009–present	supervisor of Ph.D. thesis, in total of 8 students: Jiří Křišťan, Vlodymyr Bondarenko, Miroslav Blecha, Azadeh Mohagheghi Samarin, Oleksandr Malinovskiy, Aiman Imentai, Tomáš Pěnka and Václav Kučera	FFPW USB
2012–present	guarantor and teacher of the subject "New Approaches in Aquaculture of Supplemental Fish Species"	FFPW USB
2014–2022	chairman of the Departmental council of the doctoral study in the field of Fisheries	FFPW USB
2016–present	guarantor and teacher of the subject "Intensive Aquaculture"	FFPW USB
2016–2022	guarantor of a doctoral study in the field of Fisheries	FFPW USB
2022–present	member of the Departmental Council of the doctoral study in the field of Fisheries	FFPW USB

Membership in editorial boards and professional organizations

Period	Membership
2009–2012	editor-in-chief of the journal Bulletin VÚRH and chairman of the Editorial Board of FFWP USB
2012–present	founding member and member of the Organizing Committee of the European Percid Fish Culture Group
2013–present	member of the European Aquaculture Society (national contact person for the Czechia)
2016–present	member of the editorial board of the Turkish Journal of Fisheries and Aquatic Sciences
2020–present	member of the editorial board and co-editor of the Czech Journal of Animal Science

Awards received

Year	Award name
1998	Dean's Award of the Faculty of Agriculture, University of South Bohemia in Český Budějovice for excellent study results
2019	FFPW USB Dean's Award for the organization of the international conference Aquaculture Europe 2019 marked as the most significant international activity of FFPW USB in 2019

In Vodňany, January 3, 2024

prof. Ing. Tomáš Polícar, Ph.D.