

PUBLIKAČNÍ SEZNAM 2010-2020 (List of publications)

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2020

Lektorované odborné časopisy s IF *Peer reviewed journals with IF*

- Cheng, Y., Xin, M.M., Gela, D., Rodina, M., Tučková, V., Kašpar, V., Siddique, M.A.M., Shelton, W.L., **Linhart, O.**, 2020. Optimization of sterlet (*Acipenser ruthenus*) egg incubation. *Animal Reproduction Science* 215: 106334, doi.org/10.1016/j.anireprosci.2020.106334, (IF 2019 = 1.66).
- Cheng, Y., Franěk, R., Rodina, M., Xin, M.M., Cosson, J., **Linhart, O.**, 2020. Optimization of Sperm Storage and Fertilization in Zebrafish [*Danio rerio* (Hamilton)]. *Animals*, submitted (IF 2019 = 2.323).
- Linhart, O.**, Cheng, Y., Xin, M.M., Rodina, M., Tučková, V., Shelton, W.L., Kašpar, V., 2020. Standardization of egg activation and fertilization in sterlet (*Acipenser ruthenus*). *Aquaculture Reports* 17: 100381, doi.org/10.1016/j.aqrep.2020.100381 (IF 2018 = 2.289).
- Linhart, O.**, Cheng, Y., Rodina, M., Tučková, V., Shelton, W.L., Tinkir, M., Memiş, D., Xin, M.M., 2020. Sperm management of European catfish (*Silurus glanis* L.) for effective reproduction and genetic conservation. *Aquaculture* 529, 735620 <https://doi.org/10.1016/j.aquaculture.2020.735620> (IF 2019 = 3.224)
- Tinkir, M., Memiş, D., Cheng, Y., Xin, M.M., Rodina, M., Gela, D., Tučková, V., **Linhart, O.**, 2020. Level of *in vitro* storage of the European catfish (*Silurus glanis* L.) eggs at different temperatures. *Fish Physiology and Biochemistry*, DOI: 10.1007/s10695-020-00902-9 (IF 2019 = 2.242)
- Xin, M.M., Cheng, Y., Rodina, M., Tučková, V., Shelton, W.L., **Linhart, O.**, 2020. Improving motility and fertilization capacity of low-quality sperm of sterlet *Acipenser ruthenus* during storage. *Theriogenology* 156: 90-96, doi.org/10.1016/j.theriogenology.2020.07.004 (IF 2019 = 2.094).
- Xin, M.M., Niksirat, H., Shaliutina-Kolesova, A., Siddique M.A.M., Sterba, J., Boryshpolets, S. and **Linhart, O.**, 2020. Molecular and subcellular cryoinjury of fish spermatozoa and approaches to improve cryopreservation. *Reviews in Aquaculture* 12: 909-924 DOI: 10.1111/raq.12355 (IF 2019 = 7.772)

2019

Lektorované odborné časopisy s IF

Peer reviewed journals with IF

- Cosson, J., **Linhart, O.**, Alavi, S.M.H., 2019. Obituary: Remembering Professor Roland Billard. *Theriogenology* 133: 159-160 (IF 2018 = 2.136)
- Alavi S.M.H., Cosson J., Bondarenko, O., **Linhart O.**, 2019. Sperm motility in fishes: (III) Diversity of regulatory signals from membrane to the axoneme. *Theriogenology* 136: 143-165 (IF 2018 = 2.136)
- Xin, M.M., Vechtova, P., Shaliutina-Kolesova, A., Fussy, Z., Loginov, D., Fussy, Z., Dzyuba, B., Rodina, M., Li, P., **Linhart, O.**, Loginova, Y., and Sterba, J., 2019. Transferrin identification in sterlet (*Acipenser ruthenus*) reproductive system. *Animals* 9(10), 753; doi:10.3390/ani9100753 (IF 2018 = 1.832).

2018

Lektorované odborné časopisy s IF **Peer reviewed journals with IF**

- Xin, M.M., Sterba, J., Shaliutina-Kolesova, A., Dzyuba, B., Lieskovska, J., Boryshpolets, S., Siddique M.A.M., Kholodny, V., Lebeda, I., **Linhart, O.**, 2018. Protective role of antifreeze proteins on sterlet (*Acipenser ruthenus*) spermatozoa during cryopreservation. *Fish Physiol Biochem.* 44(6): 1527-1533, doi.org/10.1007/s10695-018-0538-5 (IF 2017 = 1.735).
- Xin, M.M., Tuckova, V., Rodina, M., Kholodny, V., Dadras, H., Boryshpolets, S., Shaliutina-Kolesova, A., **Linhart, O.**, 2018. Effects of antifreeze proteins on cryopreserved sterlet (*Acipenser ruthenus*) sperm motility parameters variables and fertilization capacity. *Animal Reproduction Science* 196: 143-149, doi.org/10.1016/j.anireprosci.2018.07.007 (IF 2017 = 1.647).
- Xin, M.M., Shaliutina-Kolesova, A., Sterba, J., Konik, P., Boryshpolets, S., Rodina, M., Li, P., Nian, R., **Linhart, O.**, 2018. Impact of cryopreservation on sterlet, *Acipenser ruthenus* sperm motility and proteome. *Animal Reproduction Science* 192: 280–289, doi.org/10.1016/j.anireprosci.2018.03.025 (IF 2017 = 1.647)
- Shaliutina-Kolesova, A., Ruiu, N., Ashtiani, S., Rodina, M., Cosson, J., **Linhart, O.**, 2018. Oxidative Stress and the Antioxidant Enzyme Defence System in Seminal Plasma of Common carp (*Cyprinus carpio*) and Rainbow trout (*Oncorhynchus mykiss*) During the Spawning Season. *Czech Journal of Animal Science* 63(2): 78-84 (IF 2017 = 0.955).

2017

Lektorované odborné časopisy s IF **Peer reviewed journals with IF**

- Boryshpolets, S., Sochorová, D., Rodina, M., **Linhart, O.**, Dzyuba, B., 2017. Cryopreservation of Carp (*Cyprinus carpio* L.) Sperm: Impact of Seeding and Freezing Rates on Post-Thaw Outputs. *Biopreservation and Biobanking* 15(3): 234-40, doi: 10.1089/bio.2016.0065 (IF 2016 = 1.698).
- Dadras, H., Dzyuba, B., Cosson, J., Siddique, M.A.M., **Linhart, O.**, 2017. Effect of water temperature on the physiology of fish spermatozoon function: a brief review. *Aquaculture Research* 48(3): 386-394, doi:10.1111/are.13049 (IF 2016 = 1.461).

- Dzyuba, B., Dzyuba, V., Boryshpolets, S., Fedorov, P., Bondarenko, O., Rodina, M., **Linhart, O.**, Shelton, W.L., Cosson, J., 2017. Sperm maturation in sturgeon (*Actinopterygii, Acipenseriformes*): A review. *Theriogenology* 97: 134-138 (IF 2016 = 1.986).
- Xin, M.M., Siddique, M.A.M., Dzyuba, B., Cuevas-Urbe, R., Shaliutina-Kolešová, A., **Linhart, O.**, 2017. Progress and challenges of fish sperm vitrification: a mini review. *Theriogenology* 98: 16-22, doi.org/10.1016/j.theriogenology.2017.04.043 (IF 2016 = 1.986).
- Siddique, M.A.M., Butts, I.A.E., **Linhart, O.**, Macias, A.D., Fauvel, C., 2017. Fertilization strategies for Sea Bass *Dicentrarchus labrax* (Linnaeus, 1758): Effects of pre-incubation and duration of egg receptivity in seawater. *Aquaculture Research* 48: 386-394 DOI: 10.1111/are.12887 (IF 2016 = 1.461).
- Siddique, M.A.M., **Linhart, O.**, Krejszef, S., Żarski, D., Pitcher, T.E., Politis, S.N., Butts, I.A.E., 2017. Paternal identity impacts embryonic development for two species of freshwater fish. *General and Comparative Endocrinology* 245(SI): 30-35, [doi:10.1016/j.ygcen.2016.07.004](https://doi.org/10.1016/j.ygcen.2016.07.004) (IF 2016 = 2.585).

2016

Lektorované odborné časopisy s IF
Peer reviewed journals with IF

- Dzyuba, V., Cosson, J., Dzyuba, B., Yamaner, G., Rodina, M., **Linhart, O.**, 2016. The antioxidant system of seminal fluid during in vitro storage of sterlet *Acipenser ruthenus* sperm. *Fish Physiol Biochem.* 42(2): 563-568 (IF 2015 = 1.442).
- Dzyuba, V., Słowinska, M., Cosson, J., Ciereszko, A., Boryshpolets, S., Štěřba, J., Rodina, M., **Linhart, O.**, Dzyuba, B., 2016. Characterization of proteolytic and anti-proteolytic activity involvement in sterlet spermatozoon maturation. *Fish Physiol Biochem.* 42(6): 1755-1766, doi: 10.1007/s10695-016-0255-x (IF 2015 = 1.442).
- Horokhovatskyi, Y., Sampels, S., Cosson, J., **Linhart, O.**, Rodina, M., Fedorov, P., Blecha, M., Dzyuba, B., 2016. Lipid composition in common carp (*Cyprinus carpio*) sperm possessing different cryoresistance. *Cryobiology* 73: 282-285 (IF 2015 = 1.920).
- Linhart, O.**, Shelton, W.L., Tuckova, V., Rodina, M., Siddique, M.A.M., 2016. Effects of temperature on *in vitro* storage of sterlet sturgeon (*Acipenser ruthenus*) ova. *Reproduction in Domestic Animals* 51: 165-170, doi:10.1111/rda.12661 (IF 2014 = 1.210)
- Legendre, M., Alavi, S.M.H., Dzyuba, B., **Linhart, O.**, Prokopchuk, G., Cochet, C., Dugué, R., Cosson, J., 2016. Adaptations of semen characteristics and sperm motility to harsh salinity: Extreme situations encountered by the euryhaline tilapia *Sarotherodon melanocheilus heudelotii* (Dumeril, 1859). *Theriogenology* 86(5): 1251-1267, doi: 10.1016/j.theriogenology.2016.04.066. (IF 2015 = 1.838)
- Shaliutina-Kolešová, A., Kotas, P., Štěřba, J., Rodina, M., Cosson, J., Dzyuba, B., **Linhart, O.**, 2016. Protein Profile of Seminal Plasma and Functionality of Spermatozoa During the Reproductive Season in Common Carp *Cyprinus carpio* and Rainbow trout *Oncorhynchus mykiss*. *Molecular Reproduction and Development* 83(11): 968-982 doi: [10.1002/mrd.22737](https://doi.org/10.1002/mrd.22737) (IF 2015 = 2.141)
- Siddique, M.A.M., Niksirat, H., **Linhart, O.**, 2016. Comparative coelomic fluid composition of sterlet sturgeon *Acipenser ruthenus* Linnaeus, 1758, Siberian sturgeon *Acipenser baerii* Brandt, 1869, and Russian sturgeon *Acipenser gueldenstaedtii* Brandt & Ratzeburg, 1833. *Journal of Applied Ichthyology* 32: 820-824 (IF 2015 = 0.783).

- Siddique, M.A.M., Butts, I.E.E., Cosson, J., **Linhart, O.**, 2016. First report on facultative parthenogenetic activation of eggs in sterlet sturgeon, *Acipenser ruthenus*. *Animal Reproduction Science* 168: 110–115. (IF 2015 = 1.377)
- Siddique, M.A.M., **Linhart, O.**, Krejszef, S., Źarski, D., Król, J., Butts, I.A.E., 2016. Duration of egg receptivity in different activating media for an externally fertilizing freshwater fish, *Ide Leuciscus idus*. *Theriogenology* 85 (5): 849-855 (IF 2015 = 1.838).
- Siddique, M.A.M., Psenicka, M., Cosson, J., Dzyuba, B., Rodina, M., Golpour, A., **Linhart, O.**, 2016. Egg stickiness in artificial reproduction of sturgeon: an overview. *Reviews in Aquaculture* 8 (1): 18-29, doi: 10.1111/raq.12070 (IF 2015 = 4.769).
- Siddique, M.A.M., **Linhart, O.**, Kujawa, R., Krejszef, S., Źarski, Butts, I.A.E., 2016. Composition of seminal plasma and ovarian fluid in *Ide Leuciscus idus* and Northern pike *Esox lucius*. *Reproduction in Domestic Animals* 51: 960-969 (IF 2015 = 1.210)

2015

Lektorované odborné časopisy s IF *Peer reviewed journals with IF*

- Golshan, M., Hatef, A., Socha, M., Milla, S., Butts, I.A.E., Carvevali, O., Rodina, M., Sokolowska-Mikolajczyk, M., Fontaine, P., **Linhart, O.**, Alavi, S.M.H., 2015. Di-(2-ethylhexyl)-phthalate disrupts pituitary and testicular hormonal functions to reduce sperm quality in mature goldfish. *Aquatic Toxicology* 163: 16–26. (IF 2014 = 3.451)
- Linhart, O.**, Rodina, M., Kašpar V., 2015. Common carp (*Cyprinus carpio* Linnaeus, 1758) male fertilization potency with secure number of spermatozoa per ova. *J. Appl. Ichthyol.* 31: 169-173. (IF 2014 = 0.867)
- Linhart, O.**, Psenicka, M., 2015. Proceedings of the 2nd workshop on diversification in inland finfish aquaculture Foreword *J. Appl. Ichthyol.* 31: 1. (IF 2014 = 0.867)
- Shaliutina-Kolešová, A., Cosson, J., Lebeda, I., Gazo, I., Shaliutina O., Dzyuba, B., **Linhart, O.**, 2015. The influence of cryoprotectants on sturgeon (*Acipenser ruthenus*) sperm quality, DNA integrity, antioxidant responses, and resistance to oxidative stress. *Animal Reproduction Science* 159: 66–76. (IF 2014 = 1.511)
- Siddique, M.A.M., Butts, I.A.E., Psenicka, M., **Linhart, O.**, 2015. Effects of pre-incubation of eggs in fresh water and varying sperm concentration on fertilization rate in sterlet sturgeon, *Acipenser ruthenus*. *Animal Reproduction Science* 159: 141-147 (IF 2014 = 1.511)

Knihy či kapitoly, monografie, skripta

Books or chapters, monographs, textbooks

- Alavi, S.M.H., Ciereszko, A., Hatef, A., Křišťan, J., Dzyuba, B., Boryshpolets, S., Rodina, M., Cosson, J., **Linhart, O.**, 2015. Sperm morphology, physiology, motility and cryopreservation in Percidae. Sperm biology and cryopreservation. In: *Biology and Culture of Percid Fishes – Principles and Practices*, Kestemont, P., Dabrowski, K., Summerfelt R.C.(Eds.). Springer, Amsterdam, pp 163-191.

2014

Lektorované odborné časopisy s IF *Peer reviewed journals with IF*

- Alavi, S.M.H., Postlerova-Manaskova, P., Hatef, A., Pšenička, M., Pěkníková, J., Inaba, K., Ciereszko, A., **Linhart, O.**, 2014. Protease in sturgeon sperm and the effects of protease inhibitors on sperm motility and velocity. *Fish Physiology and Biochemistry* 40: 1393-1398. (IF 2013 = 1.676)
- Bondarenko, O., Dzyuba, B., Cosson, J., Rodina, M., **Linhart, O.**, 2014. Calcium ion supplementation increases brook trout *Salvelinus fontinalis* spermatozoa activation at the end of the spawning season. *Journal of Fish Biology*, doi:10.1111/jfb.12445, available online at wileyonlinelibrary.com (IF 2013 = 1.734)
- Bondarenko, O., Dzyuba, B., Cosson, J., Rodina, M., **Linhart, O.**, 2014. The role of Ca²⁺ and Na⁺ membrane transport in brook trout (*Salvelinus fontinalis*) spermatozoa motility. *Fish Physiol Biochem* 40: 1417-1421, DOI 10.1007/s10695-014-9936-5 (IF 2013 = 1.676)
- Dzyuba, B., Cosson, J., Boryshpolets, S., Bondarenko, O., Dzyuba, V., Prokopchuk, G., Gazo, I., Rodina, M., **Linhart, O.**, 2014. In vitro sperm maturation in sterlet, *Acipenser ruthenus*. *Reproductive Biology* 14: 160-163. (IF 2013 = 1.048)
- Dzyuba, B., Boryshpolets, S., Cosson, J., Dzyuba, V., Fedorov, P., Saito T., Psenicka, M., **Linhart, O.**, Rodina M., 2014. Motility and fertilization ability of sterlet *Acipenser ruthenus* testicular sperm after cryopreservation. *Cryobiology* 69: 339–341 <http://dx.doi.org/10.1016/j.cryobiol.2014.07.008> (IF 2013 = 1.643)
- Siddique, MAM., Cosson, J., Psenicka, **Linhart, O.**, 2014. A review of the structure of sturgeon egg membranes and of the associated terminology. *J. Appl. Ichthyology* 30: 1246-255 (IF 2013 = 0.903)
- Shaliutina-Kolešová, A., Gazo, I., Cosson, J., **Linhart, O.**, 2014. Protection of common carp (*Cyprinus carpio* L.) spermatozoa motility under oxidative stress by antioxidants and seminal plasma. *Fish Physiology and Biochemistry* 40: 1771–1781. (IF 2013 = 1.676)

Knihy či kapitoly, monografie, skripta
Books or chapters, monographs, textbooks

- Alavi, S.M.H., Ciereszko, A., Hatef, A., Křišťan, J., Dzyuba, B., Boryshpolets, S., Rodina, M., Cosson, J., **Linhart, O.**, 2014. Sperm morphology, physiology, motility and cryopreservation in Percidae. Sperm biology and cryopreservation. In: *Biology and Culture of Percid Fishes – Principles and Practices*, Kestemont, P., Dabrowski, K. (Eds). Springer, Amsterdam. (in press)

Uplatněné metodiky, patenty, poloprovozy, ověřené technologie
Application of methodologies, patents, pilot plants, verified technologies

- Dzyuba, B., Boryshpolets, S., Cosson, J., Rodina, M., Pšenička, M., **Linhart, O.**, Prášková, E., Dzyuba, V., Fedorov, P., 2014. Použití testikulárního spermatu jeseterovitých ryb. *Edice Metodik, FROV JU*, č. 151, 14 s. (certifikovaná metodika, v tisku)

Gela, D., Flajšhans, M., Kocour, M., Rodina, M., Kašpar, V., **Linhart, O.**, 2014. Plemeno kapra obecného - amurský lysec (vodňanská linie). Ministerstvo zemědělství, Odbor živočišných komodit, Praha. (plemeno)

2013

Lektorované odborné časopisy s IF
Peer reviewed journals with IF

Bondarenko, O., Dzyuba, B., Cosson, J., Yamanater, G., Prokopchuk, G., Pšenička, M., **Linhart, O.**, 2013. Volume changes during the motility period of fish spermatozoa: Interspecies differences. *Theriogenology* 79 (5): 872–881. (IF 2012 = 2.082)

Boryshpolets, S., Cosson, J., Bondarenko V., Gillies, Rodina, M., Dzyuba, B., **Linhart, O.**, 2013. Different swimming behaviors of sterlet (*Acipenser ruthenus*) spermatozoa close to solid and free surfaces. *Theriogenology* 79: 81–86. (IF 2012 = 2.082)

Dzyuba, B., Cosson, J., Yamener, G., Bondarenko, O., Rodina, M., Gela, D., Bondarenko, V., Shaliutina, A., **Linhart, O.**, 2013. Hypotonic treatment prior to freezing improves cryoresistance of common carp (*Cyprinus carpio* L.) spermatozoa. *Cryobiology* 66 (2): 192–194. (IF 2012 = 2.137)

Dzyuba, B., Cosson, J., Boryshpolets, S., Dzyuba, V., Rodina, M., Bondarenko, O., Shaliutina, A., **Linhart, O.**, 2013. Motility of sturgeon spermatozoa can sustain successive activations episodes. *Animal Reproduction Science* 138: 305–313. (IF 2012 = 1.897)

Hatef, A., Alavi, S.M.H., Golshan, M., **Linhart, O.**, 2013. Toxicity of environmental contaminants to fish spermatozoa function in vitro—A review. *Aquatic Toxicology* 140–141: 134–144. (IF 2012 = 3.730)

Li, P., Hulák, M., Li, Z.H., Šulc, M., Pšenička, M., Rodina, M., Gela, D., **Linhart, O.**, 2013. Cryopreservation of common carp (*Cyprinus carpio* L.) sperm induces protein phosphorylation in tyrosine and threonine residues. *Theriogenology* 80: 84–89. (IF 2012 = 2.082)

Shaliutina-Kolešová, A., Gazo, I., Cosson, J., **Linhart, O.**, 2013. Comparison of oxidant and antioxidant status of seminal plasma and spermatozoa of several fish species. *Czech Journal of Animal Science* 58: 313–320. (IF 2012 = 0.922)

Shaliutina, A., Hulák, M., Gazo, I., Linhartová, P., **Linhart, O.**, 2013. Effect of short-term storage on quality parameters, DNA integrity, and oxidative stress in Russian (*Acipenser gueldenstaedtii*) and Siberian (*Acipenser baerii*) sturgeon sperm. *Animal Reproduction Science* 139: 127–135. (IF 2012 = 1.897)

Shaliutina, A., Hulak, M., Li, P., Sulc, M., Dzyuba, B., **Linhart, O.**, 2013. Comparison of Protein Fractions in Seminal Plasma from Multiple Sperm Collections in Sterlet (*Acipenser ruthenus*). *Reproduction in Domestic Animals* 48: 156–159. (IF 2012 = 1.392)

Knihy či kapitoly, monografie, skripta
Books or chapters, monographs, textbooks

Flajšhans, M., Kocour, M., Ráb, P., Hulák, M., Petr, J., Bohlen Šlechtová, V., Šlechta, V., Havelka, M., Kašpar, V., **Linhart, O.**, 2013. Genetika a šlechtění ryb. Druhé rozšířené a upravené vydání. Jihočeská univerzita v Českých Budějovicích, Fakulta rybnářství a ochrany vod, Vodňany, 305 s. (in Czech) ISBN 978-80-87437-48-3

2012

Lektorované odborné časopisy s IF
Peer reviewed journals with IF

Alavi, S.M.H., Hatef, A., Mylonas, C.C., Gela, D., Papadaki, M., Rodina, M., Kašpar, V., Podhorec, P., **Linhart, O.**, 2012. Sperm characteristics and androgens in *Acipenser ruthenus* after induction of spermiation by carp pituitary extractor GnRH α implants. *Fish Physiol Biochem* 38: 1655-1666. (IF 2011 = 1,528)

Alavi, S.M.H., Rodina, M., Gela, D., **Linhart, O.**, 2012. Sperm biology and control of reproduction in sturgeon: (I) testicular development, sperm maturation and seminal plasma characteristics. *Rev Fish Biol Fisheries* 22: 695-717. (IF 2011 = 2,500)

Alavi, S.M.H., Hatef, A., Pšenička, M., Kašpar, V., Boryshpolets, S., Dzyuba, B., Cosson, J., Bondarenko, V., Rodina, M., Gela, D., **Linhart, O.**, 2012. Sperm biology and control of reproduction in sturgeon: (II) Sperm morphology, acrosome reaction, motility and cryopreservation. *Reviews in Fish Biology and Fisheries* 22: 861–886. (IF 2011 = 2,500)

Dzyuba, B., Boryshpolets, S., Shaliutina, A., Rodina, M., Yamaner, G., Gela, D., Dzyuba, V., **Linhart, O.**, 2012. Spermatozoa motility, cryoresistance, and fertilizing ability in sterlet *Acipenser ruthenus* during sequential stripping. *Aquaculture* 356-357: 272-278. (IF 2011 = 2,044)

Dzyuba, B., Cosson, J., Yamaner, G., Bondarenko, O., Rodina, M., Gela, D., Bondarenko, V., Shaliutina, A., **Linhart, O.**, 2012. Hypotonic treatment prior to freezing improves cryoresistance of common carp (*Cyprinus carpio* L.) spermatozoa. *Cryobiology*. Dec 24. pii: S0011-2240(12)00273-8. doi: 10.1016/j.cryobiol.2012.12.003. (IF 2011 = 2,062)

Hatef, A., Alavi, S.M.H., Abdulfatah, A., Fontaine, P., Rodina, M., **Linhart, O.**, 2012. Adverse effects of Bisphenol A on reproductive physiology in male goldfish at environmentally relevant concentrations. *Ecotoxicology and Environmental Safety* 76: 56-62. (IF 2011 = 2,294)

Hatef, A., Zare, A., Alavi, S.M.H., Habibi, H.R., **Linhart, O.**, 2012. Modulations in androgen and estrogen mediating genes and testicular response in male goldfish exposed to bisphenol A. *Environmental Toxicology and Chemistry*, 31: 2069-2077. (IF 2011 = 2,809)

- Hatef, A., Alavi, S.M.H., Milla, S., Křišťan, J., Golshan, M., Fontaine, P., **Linhart, O.**, 2012. Anti-androgen vinclozolin impairs sperm quality and steroidogenesis in goldfish. *Aquatic Toxicology* 122–123: 181–187. (IF 2011= 3,761)
- Hatef, A., Alavi, S.M.H., Rodina, M., **Linhart, O.**, 2012. Morphology and fine structure of the Russian sturgeon, *Acipenser gueldenstaedtii* (Acipenseridae, Chondrostei). *Journal of Applied Ichthyology* 28: 978–983. (IF 2011 = 0,869)
- Li, P., Li, Z.H., Hulak, M., Rodina, M., **Linhart, O.**, 2012. Regulation of spermatozoa motility in response to cations in Russian sturgeon *Acipenser gueldenstaedti*. *Theriogenology* 78: 102–109. (IF 2011 = 1,963)
- Shaliutina, A., Dzyuba, B., Hulak, M., Boryshpolets, S., Li, P., **Linhart, O.**, 2012. Evaluation of spermiation indices with multiple sperm collections in endangered sterlet (*Acipenser ruthenus*). *Reprod Dom Anim* 47: 479–484. (IF 2011 = 1,606)
- Shaliutina, A., Hulak, M., Li, P., Sulc, M., Dzyuba, B., **Linhart, O.**, 2012. Comparison of protein fractions in seminal plasma from multiple sperm collections in sterlet (*Acipenser ruthenus*). *Reproduction in Domestic Animals* doi: 10.1111/j.1439-0531.2012.02118.x. (IF 2011 = 1,606)
- Shaliutina, A., Hulak, M., Li, P., Dzyuba, B., **Linhart, O.**, 2012. Spermatozoa motility and variation in seminal plasma proteome of Eurasian perch (*Perca fluviatilis*) during the reproductive season. *Molecular Reproduction and Development Journal*, DOI: 10.1002/mrd.22126. 79 (12): 879-887. (IF 2011 = 2,532)

Knihy či kapitoly, monografie, skripta
Books or chapters, monographs, textbooks

- Alavi, S.M.H., Psenicka, M., Li, P., Hatef, A., Hulak, M., Rodina, M., Gela, D., **Linhart, O.**, 2012. Sperm morphology and biology in sturgeon. In: *Sperm Cell Research in the 21st Century: Historical Discoveries to New Horizons*, Morisawa, M. (Ed.). Adthree Publishing Co., Ltd., Tokyo, Japan, pp. 100-112.

Uplatněné metodiky, patenty, poloprovozy, ověřené technologie
Application of methodologies, patents, pilot plants verified technologies

- Linhart, O.**, Rodina, M., Dzyuba, B., Boryspolets, S., 2012. Metodika zmrazování spermatu lína obecného. 2012. Edice Metodik, FROV JU, Vodňany, č. 134, 26 s.
- Rodina, M., Dzyuba, B., Boryspolets, S., **Linhart, O.**, 2012. Opakovaný odběr spermatu jesetera malého a jeho využití při řízené reprodukci. Edice Metodik, FROV JU, Vodňany, č. 128, 12 s.

2011

Lektorované odborné časopisy s IF
Peer reviewed journals with IF

- Alavi, S.M.H., Gela, D., Rodina, M., **Linhart, O.**, 2011. Roles of osmolality, calcium – potassium antagonist and calcium in activation and flagellar beating pattern of sturgeon sperm. *Comparative Biochemistry and Physiology - Part A* 160: 166–174. (IF 2010 = 2,134)
- Boryshpolets, S., Dzyuba, B., Rodina, M., Alavi, S.M.H., Gela, D., **Linhart, O.**, 2011. Cryopreservation of sterlet (*Acipenser ruthenus*) spermatozoa using different cryoprotectants. *Journal of Applied Ichthyology* 27 (5): 1147-1149. (IF 2010 = 0,945)
- Hatef, A., Alavi, S.M.H., Noveiri, S.B., Poorbagher, H., Alipour, A.R., Pourkazemi, M., **Linhart, O.**, 2011. Morphology and fine structure of *Acipenser persicus* (*Acipenseridae*, *Chondrostei*) spermatozoon: Inter-species comparison in *Acipenseriformes*. *Animal Reproduction Science* 123: 81-88. (IF 2010 = 1,721)
- Hatef, A., Alavi, S.M.H., Butts, IAE., Policar, T., **Linhart, O.**, 2011. The mechanisms of action of mercury on sperm morphology, ATP content and motility in *Perca fluviatilis* (Percidae; Teleostei). *Environmental Toxicology and Chemistry* 30: 905-914. (IF 2010 = 3,026)
- Lajbner, Z., **Linhart, O.**, Kotlík, P., 2011. Human-aided dispersal has altered but not erased the phylogeography of the tench. *Evolutionary Applications*. 4 (4): 545-561. (IF 2010 = 5,145)
- Li, P., Rodina, M., Hulak, M., Gela, D., Psenicka, M., Li, Z.H., **Linhart, O.**, 2011. Physico-chemical properties and protein profiles of sperm from three freshwater chondrosteian species: a comparative study among Siberian sturgeon (*Acipenser baerii*), sterlet (*Acipenser ruthenus*) and paddlefish (*Polyodon spathula*). *Journal of Applied Ichthyology* 27(2): 673–677. (IF 2010 = 0,945)
- Li, P., Rodina, M., Hulak, M., Li, Z.H., **Linhart, O.**, 2011. Spermatozoa concentration, seminal plasma composition and their physiological relationship in the endangered stellate sturgeon (*Acipenser stellatus*) and Russian sturgeon (*Acipenser gueldenstaedtii*). *Reproduction in Domestic Animals* 46: 247-252. (IF 2010 = 1,606)
- Psenicka, M., Kaspar, V., Alavi, S.M.H., Rodina, M., Gela, D., Li, P., Boryshpolets, S., Cosson, J., **Linhart, O.**, Ciereszko, A., 2011. Potential role of the acrosome of sturgeon spermatozoa in the fertilization process. *Journal of Applied Ichthyology* 27(2): 678–682. (IF 2010 = 0,945)

Uplatněné metodiky, patenty, poloprovozy, ověřené technologie
Application of methodologies, patents, pilot plants verified technologies

- Kocour M., Flajšhans M., Kašpar V., Gela D., Hulák M., Rodina M., **Linhart O.**, 2011. Metodické postupy při aplikaci hybridizačních programů u ryb v podmínkách českého rybářství. Edice Metodik, FROV JU Vodňany, č. 109, 53 s.
- Linhart, O.**, Rodina, M., Boryshpolets, S., 2011. Hodnocení čerstvého spermatu ryb. Edice Metodik, 2011, FROV JU, Vodňany, č. 114, 19 s.

Linhart, O., Rodina M., Sladky L., 2011. Zařízení pro synchronizaci světelných záblesků vydávaných světelným zdrojem se signálem vidokamery pro sledování a záznam obrazu mikroskopu. Užitečný vzor č. 23086. Úřad průmyslového vlastnictví, Praha, ČR.

2010

Lektorované odborné časopisy s IF
Peer reviewed journals with IF

Alavi, S.M.H., Kozak, P., Hatef, A., Hamackova, J., **Linhart, O.**, 2010. Relationships between reproductive characteristics in male *Vimba vimba* L. and the effects of osmolality on sperm motility. *Theriogenology* 74: 317-325. (IF 2009 = 2,073)

Alavi, S.M.H., Rodina, M., Hatef, A., Stejskal, V., Policar, T., Hamackova, J., **Linhart, O.**, 2010. Sperm motility and monthly variations in the semen characterization of *Perca fluviatilis* (Teleostei: Percidae). *Czech Journal of Animal Science* 55(4): 174-182. (IF 2009 = 1,008)

Dzyuba, B., Boryshpolets, S., Rodina, M., Gela, D., **Linhart, O.**, 2010. Spontaneous activation of spermatozoa motility by routine freeze-thawing in different fish species. *J. Appl. Ichthyol.* 26: 720-725. (IF 2009 = 1,121)

Flajšhans, M., Gela, D., Kocour, M., Buchtová, H., Rodina, M., Pšenička, M., Kašpar, V., Piačková, V., Sudová, E., **Linhart, O.**, 2010. A review on the potential of triploid tench for aquaculture. *Reviews in Fish Biology and Fisheries* 20: 317-329. (IF 2009 = 2,162)

Gela, D., Kocour, M., Flajšhans, M., **Linhart, O.**, Rodina, M., 2010. Comparison of performance of genome manipulated and standard tench, *Tinca tinca* (L.), groups under pond management conditions. *Reviews in Fish Biology and Fisheries* 20: 301-306. (IF 2009 = 2,162)

Hatef, A., Alavi, S.M.H., Linhartova, Z., Rodina, M., Policar, T., **Linhart, O.**, 2010. Effects of Bisphenol A on sperm motility characteristics in *Perca fluviatilis* (Percidae; Teleostei). *Journal of Applied Ichthyology* 26: 696-701. (IF 2009 = 1,121)

Henrotte, E., Kaspar, V., Rodina, M., Psenicka, M., **Linhart, O.**, Kestemont, P., 2009. Effects of dietary n-3/n-6 ratio on the biochemical composition of *Perca fluviatilis* semen and indicators of sperm quality. *Aquaculture Research* 41: 31-38. (IF 2009 = 1,099)

Hulak, M., Kašpar, V., Psenicka, M., Gela, D., Li, P., **Linhart, O.**, 2010. Does triploidization produce functional sterility of triploid males of tench (*Tinca tinca* L.)? *Reviews in Fish Biology and Fisheries*, 20: 307-315. (IF 2009 = 2,162)

Hulak, M., Psenicka, M., Gela, D., Rodina, M., **Linhart, O.**, 2010. Morphological sex change upon treatments by endocrine modulators in meiogynogenetic tench (*Tinca tinca* L.). *Aquaculture Research* 41: 233-239. (IF 2009 = 1,099)

Hulak, M., Kaspar, V., Kohlmann, K., Coward, K., Tešitel, J., Rodina, M., Gela, D., Kocour, M., **Linhart, O.**, 2010. Microsatellite-based genetic diversity and differentiation of foreign

common carp strains farmed in the Czech Republic. *Aquaculture* 298: 194-201. (IF 2009 = 1,925)

Lajbner, Z., Kohlmann, K., **Linhart, O.**, Kotlík, P., 2010. Lack of reproductive isolation between the Western and Eastern phylogroups of the tench. *Reviews in Fish Biology and Fisheries* 20: 289–300. (IF 2009 = 2,162)

Li, P., Li, Z.H., Dzyuba, B., Hulak, M., Rodina, M., **Linhart O.**, 2010. Evaluating the impacts of osmotic and oxidative stress on common carp (*Cyprinus carpio*, L.) sperm caused by cryopreservation techniques. *Biology of Reproduction* 83: 852-858. (IF 2009 = 3,300)

Li, P., Hulak, M., Rodina, M., Sulc, M., Li, Z.H., **Linhart, O.**, 2010. Comparative protein profiles: potential molecular markers from spermatozoa of Acipenseriformes (Chondrostei, Pisces). *Comparative Biochemistry and Physiology: Part D: Genomics and Proteomics* 5: 302-307. (IF 2009 = 1,758)

Li, P., Dzyuba, B., Hulak, M., Rodina, M., Boryshpolets, S., Li, Z.H., **Linhart, O.**, 2010. Percoll gradient separation of cryopreserved common carp spermatozoa to obtain a fraction with higher motility, velocity and membrane integrity. *Theriogenology* 74: 1356-1361. (IF 2009 = 2,073)

Li, P., Hulak, M., Koubek, P., Sulc, M., Dzyuba, B., Boryshpolets, S., Rodina, M., Gela, D., Manaskova-Postlerova, P., Peknicova, J., **Linhart, O.**, 2010. Ice-age endurance: the effects of cryopreservation on proteins of sperm of common carp, *Cyprinus carpio* L. *Theriogenology* 74: 413-423. (IF 2009 = 2,073)

Li, P., Rodina, M., Hulak, M., Gela, D., Li, Z.H., **Linhart, O.**, 2010. Physico-biochemical parameters and protein profiles of sperm from beluga *Huso huso*. *Journal of Applied Ichthyology* 26: 753-755. (IF 2009 = 1,121)

Psenicka, M., Rodina, M., **Linhart, O.**, 2010. Ultrastructural study on fertilization process in sturgeon (Acipenser), function of acrosome and prevention of polyspermy. *Animal Reproduction Science* 117: 147-154. (IF 2009 = 1,56)

Pšenička, M., Flajšhans, M., Hulák, M., Kašpar, V., Rodina, M., Boryshpolet, S., **Linhart, O.**, 2010. The influence of ploidy level on ultrastructure and motility of tench (*Tinca tinca* L.) spermatozoa. *Reviews in Fish Biology and Fisheries* 20 (3): 331-338. (IF 2009 = 2,162)

Uplatněné metodiky, patenty, poloprovozy, ověřené technologie
Application of methodologies, patents, pilot plants verified technologies

Kocour, M., Flajšhans, M., Gela, D., Rodina, M., Hulák, M., Kašpar, V., **Linhart, O.**, 2010. Metodické postupy při aplikaci selekčního programu zaměřeného na zvyšování užitkovosti ryb v podmínkách českého rybářství. Edice Metodik, FROV JU, Vodňany, č. 103, 86 s.

Linhart, O., Dzyuba, B., Boryshpolets, S., Rodina, M., 2010. Zmrazování spermatu jesetera malého (*Acipenser Ruthenus*). Edice Metodik (technologická řada, ověřená technologie), FROV JU, Vodňany, č. 101, 21 s.

Rodina, M., Dzyuba, B., Boryshpolets, S., **Linhart, O.**, 2010. Zmrazování spermatu kapra obecného (*Cyprinus carpio* L.) pro potřeby uchování genofondu v praktických podmínkách. Edice Metodik (technologická řada, ověřená technologie), FROV JU, Vodňany, č. 102, 25 s.