

Michael Møller Hansen - CV (June 2024)

Born in Denmark 22 November 1963, married, 2 children (born 1996 and 1999)

Education

1990 MSc, Department of Genetics and Ecology, Aarhus University (AU)

1994 PhD, Department of Biological Sciences, AU

Career

1994 - 1997 Research Scientist, Danish Institute for Fisheries Research

1997 - 2005 Senior Research Scientist, Danish Institute for Fisheries Research

2001 - 2004 External lecturer, Dept. of Biological Sciences, AU

2004 Visiting scientist, Université Laval, Quebec City, Canada

2005 - 2009 Full Professor MSO, joint position, Technical University of Denmark, National Institute of Aquatic Resources and Dept. of Biological Sciences, AU

2009 - Full Professor, Dept. of Biological Sciences, AU

2009 - 2011 Head of Department, Dept. of Biological Sciences, AU

2013 - 2014 Deputy Head of Department, Department of Bioscience, AU

Teaching and Supervision

Teaching Conservation Genetics & Molecular Ecology (10 ECTS, responsible teacher)
Global Change Biology (10 ECTS, course management group)

Supervisor 12 postdocs from Spain (2), France (1), Sweden (1), Denmark (4), China (2), Chile (1), Finland (1), 12 PhD students and 29 MSc students

Awards and Honours

2003 DSc (dr.scient.) in Population Genetics, Faculty of Science, AU

2010 - Elected member of the Royal Danish Academy of Sciences and Letters

2021 - Selected for inclusion in "Kraks Blå Bog" (the Danish "Who's Who")

Editorial Work

2003 - Associate Editor and from 2010 Senior Editor of *Molecular Ecology*. 2024-2025 leading editor of Special Issue "Conservation Genomics - Making a Difference"

2013 - Associate Editor of *Molecular Ecology Resources*

2009 - 2014 Associate Editor, *BMC Genetics*

2002 - 2010 Associate Editor, *Canadian Journal of Fisheries and Aquatic Sciences*

Selected professional experience

2023 - 2028 Core Member of DNRF Centre of Excellence: Center for Ecological Dynamics in a Novel Biosphere (ECONOVO)

- 2022 - Member of the board of the Aarhus University Research Foundation.
- 2012 - 2022 Adjunct Professor, Institute of Marine Research, Bergen, Norway
- 2021 Member of evaluation and interview panel of Genome Canada
- 2021 - Member of the Publication Committee of the Royal Academy of Sciences and Letters
- 2020 - Member of the Board of the Niels Bohr Foundation
- 2015 - 2020 Chairman (2019-2020), Deputy Chairman (2017-2018) and member (2015-2020) of the Independent Research Fund Denmark - Natural Sciences (Forskningsrådet for Natur og Univers). 2020 "Chairman of the Chairmen"
- 2017 - 2021 Elected member of the Council of the European Society for Evolutionary Biology
- 2013 - 2014 Member of evaluation panel of the Swedish Research Council FORMAS
- 2011 Chairman of international expert panel for evaluating conservation status of wolves in Sweden (Swedish Ministry of the Environment)
- 2008 - 2010 Member of *Working Group on Genetic Monitoring (GeM)*, NCEAS and NESCent, USA (PIs Fred Allendorf and Mike Schwartz)
- 2008 - 2009 Work package leader (population genetics) in the EU FP7 project *EELIAD - European Eels in the Atlantic: Assessment of their Decline*
- 2006 - 2007 Coordinator, Galathea 3 project *Spawning biology, recruitment and genetic population structure of European eel (Anguilla anguilla) in the Sargasso Sea*
- 2005 - 2006 Member of the Governing Board of the Danish Institute for Fisheries Research
- 2003 - 2008 Participant and member of the Scientific Steering Committee of the EU Network of Excellence *Marine Genomics Europe*
- 1999 - 2002 Chairman of ICES' (International Council for the Exploration of the Sea) *Working Group on the Application of Genetics in Fisheries and Mariculture*
- 1998 - 1999 Coordinator of EU-funded network, *Concerted action on identification, management and exploitation of genetic resources in brown trout (Salmo trutta)*
- 1998 - 2024 PI of > 15 projects funded by among others the Independent Research Fund Denmark, the Carlsberg Foundation, the Villum Foundation, EU, Interreg
- Opponent at 16 PhD defenses, external examiner at 22 MSc exams

Citation and Impact

Publications 147 peer-reviewed papers from 1993-2024.

H-index 53 (Web of Science), 66 (Google Scholar), ORCID 0000-0001-5372-4828

Michael M. Hansen - Publications

Prior to 2013 second authorship of publications indicates senior authorship. From \approx 2013 I have adhered to the common practice of indicating senior authorships by being last author.

Peer-reviewed papers

147. Tengstedt, A.N.B., Liu, S., Jacobsen, M.W., Gundlund, C., Møller, P.R., Berg, S., **Hansen, M.M.** (in press). Genomic Insights on Conservation Priorities for North Sea houting and European Lake whitefish (*Coregonus* spp.). *Molecular Ecology*, to appear in Special Issue "Conservation Genomics - Making a Difference".
146. Jacobsen, M.W., Nygaard, R., Hansen, B.K, Broberg, M., **Hansen, M.M.**, Hedeholm, R., Nielsen, E.E. (2023). Observing the Arctic: A comparison of environmental DNA (eDNA) and electrofishing for monitoring Arctic char and Atlantic salmon. *Environmental DNA*, 5, 782-795.
145. **Hansen, M.M.** (2023). Prepping for climate change by introgressive hybridization. *Trends in Genetics*, 39, 524-525.
144. Feng, X., Liu, S., Sui, X., Chen, Y., Zhu, R., Jia, Y., Tong, J., Yu, X., Liu, C., **Hansen, M.M.** (2023). Genetic responses in sexual diploid and asexual triploid goldfish (*Carassius auratus*) introduced into a high-altitude environment. *Molecular Ecology*, 32, 1955-1971.
143. Jonsson, B., Jonsson, N. & **Hansen, M.M.** (2022). Knock-on effects of environmental influences during embryonic development of ectothermic vertebrates. *The Quarterly Review of Biology*, 97, 95-139.
142. Liu, S., Tengstedt, A. N. B., Jacobsen, M. W., Pujolar, J. M., Jónsson, B., Lobón-Cervià, J., Bernatchez, L., **Hansen, M.M.** (2022). Genome-wide methylation in the panmictic European eel (*Anguilla anguilla*). *Molecular Ecology*, 31, 4286-4306.
141. Feng, X., Liu, S., **Hansen, M.M.** (2022). Demographic history of two endangered Atlantic eel species, *Anguilla anguilla* and *A. rostrata*. *Conservation Genetics*, 23, 981-987.
140. Knutsen, H., Catarino, D., Rogers, L., Sodeland, M., Mattingsdal, M., Jahnke, M., Hutchings, J. A., Møllerud, I., Espeland, S. H., Johanneson, K., Roth, O., **Hansen, M.M.**, Jentoft, S., André, C. & Jorde, P. E. (2022). Combining population genomics with demographic analyses highlights habitat patchiness and larval dispersal as determinants of connectivity in coastal fish species. *Molecular Ecology*, 31, 2562-2577.
139. Mayer, M., Olsen, K., Schulz, B., Matzen, J., Nowak, C., Thomsen, P. F., **Hansen, M.M.**, Vedel-Smith, C., Sunde, P. (2022). Occurrence and livestock depredation patterns by wolves in highly cultivated landscapes. *Frontiers in Ecology and Evolution*, 10, 783027.
138. Vásquez, D. L. A., **Hansen, M.M.**, Balslev, H. & Schmickl, R. (2022). Intraspecific genetic consequences of Pleistocene climate change on *Lupinus micropphyllus* (Fabaceae) in the Andes. *Alpine Botany*, 132, 273-284.
137. Jacobsen, M. W., Jensen, N. W., Nygaard, R., Præbel, K., Jónsson, B., Nielsen, N. H., Pujolar, J. M., Fraser, D. J., Bernatchez, L. & **Hansen, M.M.** (2022). A melting pot in the Arctic: Analysis of mitogenome variation in Arctic char (*Salvelinus alpinus*) reveals a 1000-km contact zone between highly divergent lineages. *Ecology of Freshwater Fish*, 31, 330-346.

136. Duval, E., Skaala, Ø., Quintela, M., Dahle, G., Delaval, A., Wennevik, V., Glover, K.A., **Hansen, M.M.** (2021). Long-term monitoring of a brown trout (*Salmo trutta*) population reveals kin-associated migration patterns and contributions by resident trout to the anadromous run. *BMC Ecology and Evolution*, 21, 143.
135. Sunde P., Collet S., Nowak C., Thomsen P.F., **Hansen M.M.**, Schulz B., Matzen J., Michler F.U., Vedel-Smith C. & Olsen K. (2021) Where have all the young wolves gone? Traffic and cryptic mortality create a wolf population sink in Denmark and northernmost Germany. *Conservation Letters*, 2021, e12812.
134. Szewczyk, M., Nowak, C., Hulva, P., Mergeay, J., Stronen, A. V., Bolfíková, B. Č., Czarnomska, S. D., Diserens, T. A., Fenchuk, V., Figura, M., de Groot, A., Haidt, A., **Hansen, M. M.**, Jansman, H., Kluth, G., Kwiatkowska, I., Lubińska, K., Michaux, J. R., Niedźwiecka, N., Nowak, S., Olsen, K., Reinhardt, I., Romański, M., Schley, L., Smith, S., Špinkytė-Bačkaitienė, R., Stachyra, P., Stępnia, K. M., Sunde, P., Thomsen, P. F., Zwijacz-Kozica, T., Mysłajek, R. W. (2021) Genetic support for the current discrete conservation unit of the Central European wolf population. *Wildlife Biology*, 2021, wlb.00809.
133. Marden, E., Abbott, R. J., Austerlitz, F., Ortiz-Barrientos, D., Baucom, R. S., Bongaerts, P., Bonin, A., Bonneaud, C., Browne, L., Buerkle, C. A., Caicedo, A. L., Coltman, D. W., Cruzan, M. B., Davison, A., DeWoody, J. A., Dumbrell, A. J., Emerson, B. C., Fountain-Jones, N. M., Gillespie, R., Giraud, T., **Hansen, M. M.**, Hodgins, K. A., Heuertz, M., Hirase, S., Hooper, R., Hohenlohe, P., Kane, N. C., Kelley, J. L., Kinziger, A. P., McKenzie, V. J., Moreau, C. S., Nazareno, A. G., Pelletier, T. A., Pemberton, J. M., Qu, Y. H., Renaut, S., Riginos, C., Rodriguez-Ezpeleta, N., Rogers, S. M., Russell, J. A., Schoville, S. D., Shi, S. H., Smith, M., Sork, V. L., Stone, G. N., Taberlet, P., Videvall, E., Waits, L., Warschefsky, E., Wayne, R. K., Whibley, A., Willoughby, J., Yoder, J. B., Zinger, L., Sibbett, B., Narum, S. & Rieseberg, L. H. (2021). Sharing and reporting benefits from biodiversity research. *Molecular Ecology*, 30, 1103-1107.
132. Jensen M.R., Sigsgaard E.E., Liu S., Manica A., Bach S.S., **Hansen M.M.**, Moller P.R. & Thomsen P.F. (2021) Genome-scale target capture of mitochondrial and nuclear environmental DNA from water samples. *Molecular Ecology Resources*, 22, 690-702.
131. Nikolic, N., Liu, S., Jacobsen, M.W., Jónsson, B., Bernatchez, L., Gagnaire, P.-A., **Hansen, M.M.** (2020). Speciation history of European (*Anguilla anguilla*) and American eel (*A. rostrata*), analyzed using genomic data. *Molecular Ecology*, 29, 565-577.
130. Mattingsdal, M., Jorde, P.E., Knutsen, H., Jentoft, S., Stenseth, N.C., Sodeland, M., Robalo, J.I., **Hansen, M.M.**, André, C., Gonzalez, E.B. (2020). Demographic history has shaped the strongly differentiated corkwing wrasse populations in Northern Europe. *Molecular Ecology*, 29, 160-171.
129. Sigsgaard, E.E., Jensen, M.R., Winkelmann, I.E., Møller, P. R., **Hansen, M.M.**, Thomsen, P.F. (2020). Population-level inferences from environmental DNA—current status and future perspectives. *Evolutionary Applications*, 13, 245-262.
128. Bekkevold, D., Höjesjö, J., Nielsen, E.E., Aldven, D., Als, T.D., Södeland, M., Kent, M., Lien, S., **Hansen, M.M.** (2020). Northern European *Salmo trutta* (L.) populations are genetically divergent across geographical regions and environmental gradients. *Evolutionary Applications*, 13, 400-416.

127. Madsen, R.A.P., Jacobsen, M.W., O'Malley, K.G., Nygaard, R., Præbel, K., Jónsson, B., Pujolar, J.M., Fraser, D.J., Bernatchez, L. & **Hansen, M.M.** (2020). Genetic population structure and variation at phenology-related loci in anadromous Arctic char (*Salvelinus alpinus*). *Ecology of Freshwater Fish*, **29**, 170-183.
126. Gonzalez, E.B., Espeland, S., Jentoft, S., **Hansen, M.M.**, Robalo, J., Stenseth, N. C., Jorde, P.E. (2019). Interbreeding between local and translocated populations of a cleaner fish in an experimental mesocosm predicts risk of disrupted local adaptation. *Ecology and Evolution*, **9**, 6665-6677.
125. Skaala, Ø., Besnier, F., Borgstrøm, R., Barlaup, B.T., Sørvik, A.G., Normann, E., Østebø, B.I., **Hansen, M.M.**, Glover, K.A. (2019). An extensive common-garden study with domesticated and wild Atlantic salmon in nature reveals impact on smolt production and shifts in fitness traits. *Evolutionary Applications*, **12**, 1001-1016.
124. Pujolar, J.M., Dalén, L., Olsen, R.A., **Hansen, M.M.**, Madsen, J. (2018). First de novo whole genome sequencing and assembly of the pink-footed goose. *Genomics*, **110**, 75-79.
123. Liu, S., Ferchaud, A.-L., Grønkjær, P., Nygaard, R., **Hansen, M.M.** (2018) Genomic parallelism and lack thereof in contrasting systems of threespine sticklebacks. *Molecular Ecology*, **27**, 4725-4743.
122. Dammark, K.B, Ferchaud, A.-L., **Hansen, M.M.**, Sørensen, J.G. (2018) Heat tolerance and gene expression responses to heat stress in threespine sticklebacks from ecologically divergent environments. *Journal of Thermal Biology*, **75**, 88-96.
121. Mattingsdal, M., Jentoft, S., Tørresen, O., Knutsen, H., **Hansen, M.M.**, Robalo, J., Zagrodzka, Z., André, C., Blanco Gonzalez, E. (2018) A continuous genome assembly of the corkwing wrasse (*Symphodus melops*). *Genomics*, **6**, 399-403.
120. Jacobsen, M.W., Pujolar, J.M., Pedersen, L. & **Hansen, M.M.** (2018). Single Nucleotide Polymorphism markers for assessing potential maternal population structure in European eel (*Anguilla anguilla*). *Conservation Genetics Resources*, **10**, 907-909.
119. Christensen, C., Jacobsen, M.W., Nygaard, R. & **Hansen, M.M.** (2018). Spatiotemporal genetic structure of anadromous Arctic char (*Salvelinus alpinus*) populations in a region experiencing pronounced climate change: *Conservation Genetics*, **19**, 687-690.
118. Pujolar, J. M., Dalen, L., **Hansen, M. M.** & Madsen, J. (2017). Demographic inference from whole-genome and RAD sequencing data suggests alternating human impacts on goose populations since the last ice age. *Molecular Ecology*, **26**, 6270-6283.
117. Pedersen, S. H., Ferchaud, A. L., Bertelsen, M. S., Bekkevold, D. & **Hansen, M. M.** (2017). Low genetic and phenotypic divergence in a contact zone between freshwater and marine sticklebacks: gene flow constrains adaptation. *BMC Evolutionary Biology*, **17**, 130.
116. Pujolar, J. M., Ferchaud, A. L., Bekkevold, D. & **Hansen, M. M.** (2017). Non-parallel divergence across freshwater and marine three-spined stickleback *Gasterosteus aculeatus* populations. *Journal of Fish Biology*, **91**, 175-194.
115. **Hansen, M. M.** & Rogers, S. M. (2017). Recipient of the 2016 Molecular Ecology Prize: Louis Bernatchez - advancing the conservation of aquatic resources with his contributions on the

ecological genomics of adaptation and speciation. *Molecular Ecology*, **26**, 413-419. (Biographical sketch of prize winner)

114. Jacobsen, M. W., Christensen, C., Madsen, R., Nygaard, R., Jonsson, B., Praebel, K. & **Hansen, M. M.** (2017). Single nucleotide polymorphism markers for analysis of historical and contemporary samples of Arctic char (*Salvelinus alpinus*). *Conservation Genetics Resources*, **9**, 587-589.

113. Glover, K.A., Solberg, M.F., McGinnity, P., Hindar, K., Verspoor, E., Coulson, M.W., **Hansen, M.M.**, Araki, H., Skaala, Ø., Svåsand, T. (2017). Half a century of genetic interaction between farmed and wild Atlantic salmon: status of knowledge and unanswered questions. *Fish and Fisheries*, **18**, 890-927.

112. Liu, S. & **Hansen, M.M.** (2017). PSMC (Pairwise Sequentially Markovian Coalescent) analysis of RAD (Restriction site Associated DNA) sequencing data. *Molecular Ecology Resources*, **17**, 631-641.

111. Jacobsen, M.W., Smedegaard, L., Sørensen, S.R., Pujolar, J.M., Munk, P., Jonsson, B., Magnussen, E., **Hansen, M.M.** (2017). Assessing pre- and post-zygotic barriers between North Atlantic eels (*Anguilla anguilla* and *A. rostrata*). *Heredity*, **118**, 266–275.

110. Sanin, M.J., Zapata, P., Pintaud, J.-C., Galeano, G., Tohme, J., **Hansen, M.M.** (2017). Up and down the blind alley: population divergence with scant gene flow in an endangered tropical lineage of Andean palms (*Ceroxylon quindiuense* clade: Ceroxyloideae). *Journal of Heredity*, **108**, 288-298.

109. Liu, S. §, **Hansen, M.M.** §, Jacobsen, M.W. (2016). Region-wide and ecotype-specific differences in demographic histories of threespine stickleback populations, estimated from whole genome sequences. *Molecular Ecology*, **25**, 5187–5202. § Joint first authors

108. Ferchaud, A.-L. & **Hansen, M.M.** (2016). The impact of selection, gene flow and demographic history on heterogeneous genomic divergence: threespine sticklebacks in divergent environments. *Molecular Ecology*, **25**, 238-259.

107. Jacobsen, M.W., da Fonseca, R.A.R., Bernatchez, L., **Hansen, M.M.** (2016). Comparative analysis of complete mitochondrial genomes suggests that relaxed purifying selection is driving high nonsynonymous evolutionary rate of the NADH2 gene in whitefish (*Coregonus* spp.). *Molecular Phylogenetics and Evolution*, **95**, 161-170.

106. Vasquez, D.L.A., Balslev, H., **Hansen, M.M.**, Sklenar, P., Romoleroux, K. (2016). Low genetic variation and high differentiation across sky island populations of *Lupinus alopecuroides*. *Alpine Botany*, **126**, 135-142.

105. Besnier, F., Glover, K., Lien, S., Kent, M., **Hansen, M.M.**, Shen, X., Skaala, Ø. (2015). Identification of quantitative genetic components of fitness variation in farmed, hybrid and native salmon in the wild. *Heredity*, **115**, 47-55.

104. Jacobsen, M.W., Pujolar, J.M., **Hansen, M.M.** (2015). Relationship between amino acid changes in mitochondrial ATP6 and life history variation in Anguillid eels. *Biology Letters*, **11**, 20150014.

103. Crook, D.A., Lowe, W.H., Allendorf, F.W., Eros, T., Finn, D., Gillanders, B., Hadwen, W.L., Harrod, C., Hermoso, V., Jennings, S., Kilada, R.W., Nagelkerken, I., **Hansen, M.M.**, Page, T.J., Riginos, C., Fry, B., Hughes, J.M. (2015). Human effects on ecological connectivity in aquatic ecosystems: integrating scientific approaches to support management and mitigation. *Science of the Total Environment*, **534**, 52-64.
102. Pujolar, J.M., Jacobsen, M.W., Bekkevold, D., Lobon-Cervia, J., Jonsson, B., Bernatchez, L., **Hansen, M.M.** (2015). Signatures of selection between life cycle stages separated by metamorphosis in the European eel. *BMC Genomics*, **16**, 600.
101. Jacobsen, M.W., Pujolar, J.M., Gilbert, M.T.P., Moreno-Mayar, J.V., Bernatchez, L., Als, T.D., Lobon-Cervia, J., **Hansen, M.M.** (2014). Speciation and demographic history of Atlantic eels (*Anguilla anguilla* and *A. rostrata*) revealed by mitogenome sequencing. *Heredity*, **113**, 432-442.
100. Ferchaud, A.L., Pedersen, S.H., Bekkevold, D., **Hansen, M.M.** (2014). A low-density SNP array for analyzing differential selection in freshwater and marine populations of threespine stickleback (*Gasterosteus aculeatus*). *BMC Genomics*, **15**, 867.
99. Jacobsen, M.W., Pujolar, J.M., Bernatchez, L., Munch, K., Jian, J., Niu, Y., **Hansen, M.M.** (2014). Genomic footprints of speciation in Atlantic eels (*Anguilla anguilla* and *A. rostrata*). *Molecular Ecology*, **23**, 4785–4798.
98. **Hansen, M.M.**, Limborg, M.T., Ferchaud, A.-L., Pujolar, J.M. (2014). The effects of Medieval dams on genetic divergence and demographic history in brown trout populations. *BMC Evolutionary Biology*, **14**, 122.
97. Ulrik, M.G., Pujolar, J.M., Ferchaud, A.-L., Jacobsen, M.W., Als, T.D., Gagnaire, P.A., Frydenberg, J., Bøcher, P.K., Jonsson, B., Bernatchez, L., **Hansen, M.M.** (2014) Do North Atlantic eels show parallel patterns of spatially varying selection? *BMC Evolutionary Biology*, **14**, 138.
96. Pujolar, J.M., Jacobsen, M.W., Als, T.D., Frydenberg, J., Munch, K., Jónsson, B., Jian, J.B., Cheng, L., Maes, G.E., Bernatchez, L. **Hansen, M.M.** (2014). Genome-wide single generation signatures of local selection in the panmictic European eel. *Molecular Ecology*, **23**, 2514-2528.
95. Pujolar, J.M., Jacobsen, M., Als, T.D., Frydenberg, J., Magnussen, E, Jonsson, B., Jiang, X., Cheng, L., Bekkevold, D., Maes, G.E., Bernatchez, L., **Hansen, M.M.** (2014). Assessing patterns of hybridization between North Atlantic eels using diagnostic single nucleotide polymorphisms. *Heredity*, **112**, 627-637.
94. Skaala, Ø, Johnsen, G H, Lo, H, Borgstrøm, R, Wennevik, V, **Hansen, M.M.**, Merz, J E, Glover, K. A., Barlaup, B T. (2014). A conservation plan for Atlantic salmon (*Salmo salar*) and anadromous brown trout (*Salmo trutta*) in a region with intensive industrial use of aquatic habitats, the Hardangerfjord, western Norway. *Marine Biology Research*, **10**, 308-322.
93. Meier, K., **Hansen, M.M.**, Normandeau, E., Mensberg, K.-L.D., Frydenberg, J., Larsen, P. F., Bekkevold, D., Bernatchez, L. (2014). Local adaptation at the transcriptome level in brown trout: evidence from early life history temperature genomic reaction norms. *PLOS One*, **9**, e85171.
92. Pujolar, J.M., Jacobsen, L.M.W., Frydenberg, J., Als, T.D., Larsen, P.F., Maes, G.E., Zane, L., Jian, J.B., Cheng, L., **Hansen, M.M.** (2013). A resource of genome-wide single nucleotide polymorphisms generated by RAD tag sequencing in the critically endangered European eel. *Molecular Ecology Resources*, **13**, 706-714.

91. Larsen, P.F., Nielsen, E.E., **Hansen, M.M.**, Wang, T., Meier, K., Pertoldi, C., Loeschcke, V. (2013) Tissue specific haemoglobin gene expression suggests adaptation to local marine conditions in North Sea flounder (*Platichthys flesus* L.). *Genes and Genomics*, **35**, 541-547.
90. **Hansen, M.M.**, Waller, D.M., Olivieri, I., Nielsen, E.E., and the Genetic Monitoring Group (2012). Monitoring adaptive genetic responses to environmental change (Invited Review). *Molecular Ecology*, **21**, 1311-1321.
89. Gagnaire, P.-A., Normandeau, E., Côté, C., **Hansen, M.M.**, Bernatchez, L. (2012). The effect of spatially varying selection on locally adaptive alleles in the panmictic American eel (*Anguilla rostrata*). *Genetics*, **190**, 725-736.
88. Skaala, Ø., Glover, K.A., Barlaup, B.T., Svåsand, T., Besnier, F., **Hansen, M.M.**, Borgstrøm, R. (2012) Performance of farm, hybrid and wild Atlantic salmon (*Salmo salar*) families in a natural river environment. *Canadian Journal of Fisheries and Aquatic Science*, **69**, 1994-2006.
87. Jacobsen, M., **Hansen, M.M.**, Ludovic, O., Bekkevold, D., Bernatchez, L., Willerslev, E., Gilbert, M.T.P. (2012). Mitogenome sequencing reveals shallow evolutionary histories and recent divergence time between morphologically and ecologically distinct European whitefish (*Coregonus* spp.). *Molecular Ecology*, **21**, 2727-2742.
86. Larsen, P.F., Nielsen, E.E., Meier, K., Olsvik, P.A., **Hansen, M.M.**, Loeschcke, V. (2012). Differences in salinity tolerance and gene expression between two populations of Atlantic cod (*Gadus morhua*) in response to salinity stress. *Biochemical Genetics*, **50**, 454-466.
85. Jackson, J.A., Laikre, L., Baker, C.S., Kendall, K.C. and **the Genetic Monitoring Group** (2012). Guidelines for collecting and maintaining archives for genetic monitoring. *Conservation Genetics Resources*, **4**, 527-536. (Group authorship)
84. Als, T.D.[§], **Hansen, M.M.**[§], Maes, G.E., Castonguay, M., Riemann, L., Aarestrup, K., Munk, P., Sparholt, H., Hanel, R. & Bernatchez, L. (2011). All roads lead to home: Panmixia of European eel in the Sargasso Sea. *Molecular Ecology*, **20**, 1333-1346. [§] Shared first authorship. (Published as From the Cover paper. Highlighted in News & Views article: Avise, J.C. (2011) Catadromous eels continue to be slippery research subjects. *Molecular Ecology*, **20**, 1317-1319).
83. Meier, K., **Hansen, M.M.**, Bekkevold, D., Skaala, Ø. & Mensberg, K.-L.D. (2011). An assessment of the spatial scale of local adaptation in brown trout (*Salmo trutta* L.): footprints of selection at microsatellite DNA loci. *Heredity*, **106**, 488-499.
82. Fraser, D.J., Weir, L.K., Bernatchez, L., **Hansen, M.M.** & Taylor, E.B. (2011). Extent and scale of local adaptation in salmonid fishes: review and meta-analysis. *Heredity*, **106**, 404-420.
81. Bernatchez, L., St-Cyr, J., Normandeau, E., Maes, G.E., Als, T.D., Kalujnaia, S., Cramb, G., Castonguay, M., **Hansen, M.M.** (2011). Differential timing of gene expression regulation between leptocephali of the two *Anguilla* eel species in the Sargasso Sea. *Ecology & Evolution*, **1**, 459-467.
80. Munk, P., **Hansen, M.M.**, Maes, G.E., Nielsen, T.G., Castonguay, M., Riemann, L., Sparholt, H., Als, T.D., Aarestrup, K., Andersen, N.G. & Bachler, M. (2010). Oceanic fronts in the Sargasso Sea control the early life and drift of Atlantic eels. *Proceedings of the Royal Society London Series B: Biological Sciences*, **277**, 3593-3599.

79. Riemann, L., Alfredsson, H., **Hansen, M.M.**, Als, T.D., Nielsen, T.G., Munk, P., Aarestrup, K., Maes, G.E., Sparholt, H., Pedersen, M.I., Bachler, M. & Castonguay, M. (2010). Qualitative assessment of the diet of European eel larvae in the Sargasso Sea resolved by DNA barcoding. *Biology Letters*, **6**, 819-822.
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