

## *Curriculum Vitae*

# PD Dr. Reinhold Hanel

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### Personal Information

**Date of Birth:** December 9th, 1969 (in Hall in Tirol, Austria)

**Nationalities:** Austrian / German

**Position:** Director

**Address:** Institute of Fisheries Ecology  
Johann Heinrich von Thünen Institut  
Federal Research Institute for Rural Areas, Forestry and Fisheries  
Palmaille 9, 22767 Hamburg  
tel: +49-40-38905-290; fax: +49-40-38905-261  
email: reinhold.hanel@ti.bund.de

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### Education

- 2010 Habilitation**  
(PD) in Marine Biology at the Christian-Albrechts-University of Kiel
- 2001 Doctoral degree**  
(Dr. rer. nat.), awarded with distinction
- 1998-2001 Doctoral thesis work**  
„Driving Forces of Speciation in the northeastern Atlantic and Mediterranean Species Flocks of the two Perciform Families Sparidae and Labridae“ at the Department of Zoology and Limnology, University Innsbruck, Austria; supervisor: Prof. Christian Sturmbauer
- 1997 Master degree in Aquaculture and Inland Fisheries**  
Apprenticeship program completed at the Austrian State Institute of Fisheries („Bundesamt für Wasserwirtschaft, Institut für Gewässerökologie, Fischereibiologie und Seenkunde“) Scharfling, awarded with distinction
- 1995 Master degree**  
(Mag.) in Ecology, awarded with distinction
- 1989-1995 Study of Biology/Ecology**  
at the University of Innsbruck, Austria
- 1988 School leaving examination**
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## Positions Held

- 2009- Director**  
Institute of Fisheries Ecology within the Johann Heinrich von Thünen Institut, the German Federal Research Institute for Rural Areas, Forestry and Fisheries
- 2007-2008 Interim Head**  
Research Unit “Fisheries Biology” at IFM-GEOMAR
- 2003–2009 Junior Professor**  
Leibniz Institute of Marine Sciences (IFM-GEOMAR) at Kiel University
- 1997- Lecturer**  
Department of Zoology, University Innsbruck, Austria
- 2001-2002 Post-Doctoral Fellow with Dr. Jean-Nicolas Volff**  
Department of Physiological Chemistry of the University of Würzburg, Germany
- 1998-2001 Field Work Coordinator**  
„Biodiversity and Protection of autochthonous crayfish stocks in North-, East- und South-Tyrol”
- 1995-1998 Fisheries Biologist and Hatchery Manager**  
Institut für Fischforschung, Eduard-Bodemgasse 5, A-6020 Innsbruck (type of business: consultancy company for aquaculture and inland fisheries).
- 1994-1995 Biologist**  
ARGE Limnologie, Hunoldstraße 14, A-6020 Innsbruck (type of business: consultancy company for biomonitoring und plankton research)
- 1991-1995 Project Assistant**  
various research projects on ecotoxicology and ecology of alpine rivers and lakes

## Prices and Awards

- 2013 Aquaculture Society Superior Paper Award**
- 1991,1993 Excellence Awards**  
University of Innsbruck, Austria, for special achievements during studies

## Committee Activities

- 2015 Member of the Management Committee**  
European Inland Fisheries and Aquaculture Advisory Commission (EIFAAC)
- 2015 Member of the Scientific Advisory Board**  
Research Centre for Agriculture and Forestry, Laimburg, Italy
- 2012 - German National Focal Point**  
European Inland Fisheries and Aquaculture Advisory Commission (EIFAAC)
- 2012 - German Delegate**  
FAO COFI Sub-Committee on Aquaculture

- 2012 - **Member of the Scientific Advisory Board**  
Fraunhofer Research Institution for Marine Biotechnology
- 2010 - **Permanent Member of the Expert Reviewer Board**  
German Academic Exchange Service (DAAD)
- 2008 - **Member**  
EIFAAC/ICES Working Group on Eel  
ICES Working Group on Application of Genetics in Fisheries and Mariculture

## Service as Reviewer

### Research Agencies:

Alexander von Humboldt-Foundation, Germany  
Annette Barthelt Foundation, Germany  
Deutsche Bundesstiftung Umwelt (DBU), Germany  
EMIDA ERA-NET  
German Federal Ministry of Education and Research (BMBF)  
German Federal Ministry of Food and Agriculture (BMEL)  
German Science Foundation (DFG)  
Helmholtz Association  
Ministry of Business, Innovation and Employment (MBIE), New Zealand  
National Science Foundation (NSF), USA  
The University of Jordan, Amman, Jordan

### International Scientific Journals:

Aquaculture  
Biological Journal of the Linnean Society  
BMC Evolutionary Biology  
Canadian Journal of Fisheries and Aquatic Sciences  
Conservation Genetics  
Diseases of Aquatic Organisms  
Ecological Indicators  
Ecology of Freshwater Fish  
Environmental Archaeology: The Journal of Human Palaeoecology  
Fisheries Research  
Frontiers in Physiology  
Hydrobiologia  
ICES Journal of Marine Science  
International Journal of Zoology  
Italian Journal of Zoology  
Journal of Applied Ichthyology  
Journal of Fish Biology  
Journal of Molecular Evolution  
Journal of Plankton Research

Journal of the Marine Biological Association of the United Kingdom  
 Journal of Thermal Biology  
 Journal of Zoological Systematics and Evolutionary Research  
 Marine and Freshwater Research  
 Marine Biodiversity  
 Marine Biology  
 Marine Ecology  
 Marine Ecology Progress Series  
 Molecular Phylogenetics and Evolution  
 Naturwissenschaften  
 PLOS ONE

## Research Survey Participation

01.04.-29.04.2015	Sargasso Sea; chief scientist	FS Maria S. Merian
17.03.-14.04.2014	Sargasso Sea; chief scientist	FFS Walther Herwig III
15.03.-07.04.2011	Sargasso Sea; chief scientist	FFS Walther Herwig III
26.02.-09.03.2010	Bay of Biscay, Madeira	FFS Walther Herwig III
14.05.-03.06.2009	Japan, Mariana Ridge, Western Pacific	RV Hakuho-Maru
09.03.-19.03.2008	Namibia (Benguela Upwelling)	FS Maria S. Merian
25.03.-19.04.2007	Central Sargasso Sea	FV Newfoundland Alert
04.01.-06.01.2007	Western Baltic Sea	FS Alkor
11.12.-24.12.2006	Turkey (Anaximenes Seamount)	FS Meteor
10.04.-23.04.2005	Cape Verde (Senghor Seamount, Fogo)	FS Poseidon
01.06.-06.06.2004	Cape Verde (Sao Vicente)	FS Poseidon
27.02.-03.04.2003	Angola (Kunene – Kongo)	RV Fridtjof-Nansen
27.02.-29.03.2002	Angola (Kunene – Kongo)	RV Fridtjof-Nansen

## Publications

### Articles in peer-reviewed Journals

#### 2015

- 69 WARIAGHLI, F., KAMMANN, U., HANEL, R. AND A. YAHYAOUI. 2015. PAH Metabolites in Bile of European Eel (*Anguilla anguilla*) from Morocco. **Bulletin of Environmental Contamination and Toxicology**: DOI 10.1007/s00128-015-1586-5.
- 68 SÜHRING, R., FREESE, M., SCHNEIDER, M., SCHUBERT, S., POHLMANN, J.-D., ALAEE, M., WOLSCHKE, H., HANEL, R., EBINGHAUS, R. AND L. MAROHN. 2015. Maternal transfer of emerging brominated and chlorinated flame retardants. **Science of the Total Environment** 530-531: 209-218.
- 67 COLOMBO, M., DAMERAU, M., HANEL, R., SALZBURGER, W. AND M. MATSCHINER. 2015. Diversity and disparity through time in the adaptive radiation of Antarctic notothenioid fishes. **Journal of Evolutionary Biology** 28 (2): 376-394.
- 66 HERMANN, B.T., REUSCH, T.B.H. AND R. HANEL. 2014. Effects of dietary-purified rapeseed protein concentrate on hepatic gene expression in juvenile turbot (*Psetta maxima*). **Aquaculture Nutrition** 21 (1): 113-120.
- 65 HANEL, R. AND H.C. JOHN. 2014. A revised checklist of Cape Verde Islands sea fishes. **Journal of Applied Ichthyology** 31 (1): 135-169.
- 64 WYSUJACK, K., WESTERBERG, H., AARESTRUP, K., TRAUTNER, J., KURWIE, T., NAGEL, F. AND R. HANEL. 2014. The migration behaviour of European silver eels (*Anguilla anguilla*) released in open ocean conditions. **Marine and Freshwater Research** 66: 145-157.

#### 2014

- 63 SCHUBERT, S., KEDDIG, N., HANEL, R. AND U. KAMMANN. 2014. Microinjection into zebrafish embryos (*Danio rerio*) – a useful tool in aquatic toxicity testing? **Environmental Sciences Europe** 26: 32.
- 62 DAMERAU, M., SALZBURGER, W. AND R. HANEL. 2014. Population genetic structure of *Lepidonotothen larseni* revisited: cyb and microsatellites suggest limited connectivity in the Southern Ocean. **Marine Ecology Progress Series** 517: 251-263.
- 61 MILLER, M.J., BONHOMMEAU, S., MUNK, P., CASTONGUAY, M., HANEL, R. AND J.D. MCCLEAVE. 2014. A Century of Research on the Larval Distribution of Atlantic eels: A re-examination of the data. **Biological Reviews**: DOI: 10.1111/brv.12144.
- 60 HANEL, R., STEPPUTTIS, D., BONHOMMEAU, S., CASTONGUAY, M., SCHABER, M., WYSUJACK, K., VOBACH, M., AND M.J. MILLER. 2014. Low larval abundance in the Sargasso Sea: new evidence about reduced recruitment of the Atlantic eels. **Naturwissenschaften** 101 (12): 1041-1054.

- 59 MAROHN, L., PRIGGE, E. AND R. HANEL. 2014. Introduced American eels *Anguilla rostrata* in European waters: life-history traits in a non-native environment. **Journal of Fish Biology** 84 (6): 1740-1747.
- 58 MAROHN, L., PRIGGE, E. AND R. HANEL. 2014. Escapement success of silver eels from a German river system is low compared to management-based estimates. **Freshwater Biology** 59 (1): 64-72.
- 57 BALTAZAR-SOARES, M., BIASTOCH, A., HARROD, C., HANEL, R., MAROHN, L., PRIGGE, E., EVANS, D., BODLES, K., BEHRENS, E., BÖNING, C.W. AND C. EIZAGUIRRE. 2014. Recruitment Collapse and Population Structure of the European Eel Shaped by Local Ocean Current Dynamics. **Current Biology** 24 (1): 104-108.
- 56 DAMERAU, M., MATSCHINER, M., SALZBURGER, W. AND R. HANEL. 2014. Population divergences despite long pelagic larval stages: lessons from crocodile icefishes (Channichthyidae). **Molecular Ecology** 23 (2): 284-299.
- 55 SÜHRING, R., BYER, J., FREESE, M., POHLMANN, J.-D., WOLSCHKE, H., MÖLLER, A., HODSON, P.V., ALAEE, M., HANEL, R. AND R. EBINGHAUS. 2014. Brominated flame retardants and Dechloranes in European and American eels from glass to silver life stages. **Chemosphere** 116: 104-111.
- 54 KAMMANN, U., BRINKMANN, M., FREESE, M., POHLMANN, J.-D., STOFFELS, S., HOLLERT, H. AND R. HANEL. 2014. PAH metabolites, GST and EROD in European eel (*Anguilla anguilla*) as possible indicators for eel habitat quality in German rivers. **Environmental Science and Pollution Research** 21 (4): 2519-2530.

## 2013

- 53 VOLFF, J.N., SELZ, Y., HOFFMANN, C., FROSCHAUER, A., SCHULTHEIS, C., SCHMIDT, C., ZHOU, Q., BERNHARDT, W., HANEL, R., BÖHNE, A., BRUNET, F., SÉGURENS, B., COULOUX, A., BERNARD-SAMAIN, S., BARBE, V., OZOUF-COSTAZ, C., GALIANA, D., LOHSE, M.J. AND M. SCHARTL. 2013. Gene Amplification and Functional Diversification of Melanocortin 4 Receptor at an Extremely Polymorphic Locus Controlling Sexual Maturation in the Platyfish. **Genetics** 195 (4): 1337-1352.
- 52 GÉRARD, K., GUILLOTON, E., ARNAUD-HAOND, S., AURELLE, D., BASTROP, R., CHEVALDONNÉ, P., DERYCKE, S., HANEL, R., LAPÈGUE, S., LEJEUSNE, C., MOUSSET, S., RAMŠAK, A., REMERIE, T., VIARD, F., FÉRAL, J.-P. AND A. CHENUIL. 2013. PCR survey of 50 introns in animals: Cross-amplification of homologous EPIC loci in eight non-bilaterian, protostome and deuterostome phyla. **Marine Genomics** 12: 1-8.
- 51 MILLER, M. J., STEPPUTTIS, D., BONHOMMEAU, S., CASTONGUAY, M., SCHABER, M., VOBACH, M., WYSUJACK, K. AND R. HANEL. 2013. Comparisons of catches of large leptocephali using an IKMT and a large pelagic trawl in the Sargasso Sea. **Marine Biodiversity** 43 (4): 493-501.

- 50 PRIGGE, E., MAROHN, L., OEBERST, R. AND R. HANEL. 2013. Model Prediction versus Reality – Testing the predictions of a European eel (*Anguilla anguilla*) stock dynamics model against the *in situ* observation of silver eel escapement in compliance with the European Eel Regulation. **ICES-Journal of Marine Science** 70(2): 309-318.
- 49 MAROHN, L., JAKOB, E. AND R. HANEL. 2013. Implications of facultative catadromy in *Anguilla anguilla*. Does individual migratory behaviour influence eel spawner quality? **Journal of Sea Research** 77: 100-106.
- 48 BUNKE, C., HANEL, R. AND J. TRAUTNER. 2013. Phylogenetic relationships among North Atlantic redfish (genus *Sebastes*) as revealed by mitochondrial DNA sequence analyses. **Journal of Applied Ichthyology** 29 (1): 82-92.
- 47 PRIGGE, E., MAROHN, L. AND R. HANEL. 2013. Tracking the migratory success of stocked European eels *Anguilla anguilla* in the Baltic Sea. **Journal of Fish Biology** 82(2): 686-699.
- 46 SÜHRING, R., MÖLLER, A., FREESE, M., POHLMANN, J.-D., WOLSCHKE, H., STURM, R., XIE, Z., HANEL, R. AND R. EBINGHAUS. 2013. Brominated Flame Retardants and Dechloranes in Eels from German Rivers. **Chemosphere** 90 (1): 118-124.
- 2012**
- 45 VOGIATZI, E., HANEL, R., DAILIANIS, A., LAGNEL, J., HASSAN, M., MAGOULAS, A. AND C.S. TSIGENOPOULOS. 2012. Description of microsatellite markers in four mullids based on the development and cross-species amplification of 18 new markers in red mullet (*Mullus barbatus*). **Biochemical Systematics and Ecology** 44: 279-285.
- 44 HEIDEMANN, F. MAROHN, L. HINRICHSEN, H.H., HUWER, B., HÜSSY, K., KLÜGEL, A., BÖTTCHER, U. AND R. HANEL. 2012. Evaluating the suitability of otolith microchemistry for stock separation of Baltic cod (*Gadus morhua*). **Marine Ecology Progress Series** 465: 217-226.
- 43 LICHT, M., PAECKERT, M., SCHMUECKER, K., HANEL, R. AND P. BARTSCH. 2012. Contribution to the molecular phylogenetic analysis of extant holocephalan fishes (Holocephali, Chimaeriformes). **Organisms, Diversity and Evolution** 12: 421-432.
- 42 LIMBORG, M.T., HANEL, R., DEBES, P.V., RING, A.K., ANDRÉ, C., TSIGENOPOULOS, C.S. AND D. BEKKEVOLD. 2012. Imprints from genetic drift and mutation imply relative divergence times across marine transition zones in a Pan European small pelagic fish (*Sprattus sprattus*). **Heredity** 109: 96-107.
- 41 DAMERAU, M., MATSCHINER, M., SALZBURGER, W. AND R. HANEL. 2012. Comparative population genetics of seven notothenioid fish species reveals high levels of gene flow along ocean currents in the southern Scotia Arc, Antarctica. **Polar Biology** 35: 1073-1086.
- 40 NAGEL, F., WAGNER, C., HANEL, R. AND U. KAMMANN. 2012. The silvering process of European eel (*Anguilla anguilla*) influences PAH metabolite concentrations in bile fluid: Consequences for monitoring. **Chemosphere** 87 (1): 91-96.

- 39 PRIGGE, E., MALZAHN, A.M., ZUMHOLZ, K. AND R. HANEL. 2012. Dietary effects on fatty acid composition in muscle tissue of juvenile European eel, *Anguilla anguilla* (L.). **Helgoland Marine Research** 66 (1): 51-61.
- 38 NAGEL, F., KAMMANN, U., WAGNER, C. AND R. HANEL. 2012. Metabolites of Polycyclic Aromatic Hydrocarbons (PAHs) in Bile as Biomarkers of Pollution in European Eel (*Anguilla anguilla*) from German Rivers. **Archives of Environmental Contamination and Toxicology** 62 (2): 254-263.

## 2011

- 37 REISER, S., WUERTZ, S., SCHROEDER, J.P., KLOAS, W. AND R. HANEL. 2011. Risks of seawater ozonation in recirculation aquaculture – Effects of oxidative stress on animal welfare of juvenile turbot (*Psetta maxima* L.). **Aquatic Toxicology** 105 (3-4): 508-517.
36. RUTSCHMANN, S., MATSCHINER, M., DAMERAU, M., MUSCHICK, M., LEHMANN, M.F., HANEL, R. AND W. SALZBURGER. 2011. Parallel ecological diversification in Antarctic notothenioid fishes as evidence for adaptive radiation. **Molecular Ecology** 20: 4707-4721.
35. SCHABER, M., MAROHN, L., PETEREIT, C., SCHRÖDER, J., ZUMHOLZ, K. AND R. HANEL. 2011. Newcomers in the Baltic Sea: An attempt to trace back origins and whereabouts of thicklip grey mullet *Chelon labrosus* (Risso, 1827). **Fisheries Science** 77 (5): 757-764.
34. SCHROEDER, J.P., CROOT, P.L., VON DEWITZ, B., WALLER, U. AND R. HANEL. 2011. Ozone in marine recirculating aquaculture systems: Potential and limits for the removal of ammonia, nitrite and yellow substances. **Aquaculture Engineering** 45 (1): 35-41.
33. MATSCHINER, M., HANEL, R. AND W. SALZBURGER. 2011. On the origin and trigger of the notothenioid adaptive radiation. **PLoS ONE** 6 (4), e18911.
32. SCHROEDER, J.P., REISER, S., CROOT, P. AND R. HANEL. 2011. A comparative study on the removability of different ozone-produced oxidants by activated carbon filtration. **Ozone: Science & Engineering** 33 (3): 224-231.
31. FRUCIANO, C., HANEL, R., TIGANO, C. AND V., FERRITO. 2011. Atlantic-Mediterranean and within-Mediterranean molecular variation in *Coris julis* (L. 1758) (Teleostei, Labridae). **Marine Biology** 158 (6): 1271-1286.
30. ALS, T.D, HANSEN, M.M., MAES, G.E., CASTONGUAY, M., RIEMANN, L., AARESTRUP, K., MUNK, P., SPARHOLT, H., HANEL, R. AND L. BERNATCHEZ. 2011. All roads lead to home: Panmixia of European eel in the Sargasso Sea. **Molecular Ecology** 20 (7): 1333-1346.
29. MAROHN, L., HILGE, V., ZUMHOLZ, K., KLÜGEL, A., ANDERS, H. AND R. HANEL. 2011. Temperature dependency of element incorporation into European eel (*Anguilla anguilla*) otoliths. **Analytical and Bioanalytical Chemistry** 399 (6): 2175-2184.

## 2010

28. REISER, S., WÜRTZ, S., SCHRÖDER, J. AND R. HANEL. 2010. Histological and physiological alterations in juvenile turbot (*Psetta maxima*, L.) exposed to sublethal concentrations of ozone-produced oxidants. **Aquaculture** 307 (1-2): 157-164.
27. HANEL, R., JOHN, H.-C., MEYER-KLAEDEN, O. AND U. PIATKOWSKI. 2010. Larval fish abundance, composition and distribution at Senghor Seamount (Cape Verde Islands). **Journal of Plankton Research** 32 (11): 1541-1556.

26. SCHROEDER, J.P., GÄRTNER, A., WALLER, U. AND R. HANEL. 2010. The toxicity of ozone produced oxidants to the Pacific White Shrimp *Litopenaeus vannamei*. **Aquaculture** 304: 6-11.
25. INOUE, J.G., MIYA, M., MILLER, M.J., SADO, T., HANEL, R., LÓPEZ, J.A., HATOOKA, K., AOYAMA, J., MINEGISHI, Y., NISHIDA, M. AND K. TSUKAMOTO. 2010. Deep-ocean origin of the freshwater eels. **Biology Letters** 6 (3): 363-366.

## 2009

24. JAKOB, E., WALTER, T. AND R. HANEL. 2009. A checklist of the protozoan and metazoan parasites of European eel (*Anguilla anguilla*). **Journal of Applied Ichthyology**. doi: 10.1111/j.1439-0426.2009.01345.x.
23. KAZANCIOGLU, E., NEAR, T.J., HANEL, R. AND P.C. WAINWRIGHT. 2009. Influence of feeding functional morphology and sexual selection on diversification rate in parrotfishes (Scaridae). **Proceedings of the Royal Society B: Biological Sciences** 276: 3439-3446.
22. MATSCHINER, M., HANEL, R. AND W. SALZBURGER. 2009. Gene flow by larval dispersal in the Antarctic notothenioid fish *Gobionotothen gibberifrons*. **Molecular Ecology** 18: 2574-2587.
21. JAKOB, E., NEUHAUS, H., STEINHAGEN, D., LUCKHARDT, B. AND R. HANEL. 2009. Monitoring of Herpesvirus anguillae (HVA) infections in European eel, *Anguilla anguilla* (L.), in northern Germany. **Journal of Fish Diseases** 32 (6): 557-561.
20. JAKOB, E., ZUMHOLZ, K., KLIMPEL, S. AND R. HANEL. 2009. Salinity dependence of parasite infestation in the European eel *Anguilla anguilla* in northern Germany. **ICES Journal of Marine Science** 66 (2): 358-366.
19. MAROHN, L., PRIGGE, E., ZUMHOLZ, K., KLÜGEL, A., ANDERS, H. AND R. HANEL. 2009. Dietary effects on multi-element composition of European eel (*Anguilla anguilla*) otoliths. **Marine Biology** 156: 927-933.

## 2008

18. JOHN, H.-C. AND R. HANEL. 2008. The larval development of the Cape-Verdian damselfish *Chromis lubbocki* (Teleostei, Pomacentridae). **Cybium** 32(3): 217-224.
17. MAROHN, L., REHBEIN, H., KÜNDIGER, R. AND R. HANEL. 2008. The suitability of cytochrome-P4501A1 as a biomarker for PCB contamination in European eel (*Anguilla anguilla*). **Journal of Biotechnology** 136: 135-139.
16. DEBES, P.V., ZACHOS, F.E. AND R. HANEL. 2008. Mitochondrial phylogeography of the European sprat (*Sprattus sprattus* L., Clupeidae) reveals isolated climatically vulnerable populations in the Mediterranean Sea and range expansion in the northeast Atlantic. **Molecular Ecology** 17: 3873-3888.
15. DAILIANIS, T., LIMBORG, M., HANEL, R., BEKKEVOLD, D., LAGNEL, J. MAGOULAS, A. AND C.S. TSIGENOPOULOS. 2008. Characterization of nine polymorphic microsatellite markers in sprat (*Sprattus sprattus* L.). **Molecular Ecology Resources** 8: 861-863.

**2007**

14. KLIMPEL, S., KLEINERTZ, S., HANEL, R. AND S. RÜCKERT. 2007. Genetic variability in *Hysterothylacium aduncum*, a raphidascarid nematode isolated from sprat (*Sprattus sprattus*) of different geographical areas of the northeast Atlantic. **Parasitological Research** 101: 1425-1430.
13. HANEL, R., BROEKMAN, D., DE GRAAF, S. AND D. SCHNACK. 2007. Partial replacement of fishmeal by lyophilized powder of the microalgae *Spirulina platensis* in Pacific white shrimp diets. **The Open Marine Biology Journal** 1: 1-5.
12. NIKULINA E., R. HANEL, B. SCHÄFER. 2007. Cryptic speciation and paraphyly in the cosmopolitan bryozoan *Electra pilosa* – Impact of the Tethys closing on species evolution. **Molecular Phylogenetics and Evolution** 45: 765-776.
11. LÓPEZ, J.A., M.W. WESTNEAT AND R. HANEL. 2007. The phylogenetic affinities of the mysterious anguilliform genera *Coloconger* and *Thalassenchelys* as supported by mtDNA sequences. **Copeia** 4: 959-966.

**2006**

10. KLIMPEL, S., S. RÜCKERT, U. PIATKOWSKI, H.W. PALM AND R. HANEL. 2006. Diet and metazoan parasites of juvenile and subadult silver scabbard fish, *Lepidopus caudatus*, from the Great Meteor Seamount (North Atlantic). **Marine Ecology Progress Series** 315: 249-257.
09. SCHULTHEIS, C., Q. ZHOU, A. FROSCHAUER, I. NANDA, Y. SELZ, C. SCHMIDT, S. MATSCHL, M. WENNING, A.-M. VEITH, M. NACIRI, R. HANEL, I. BRAASCH, A. DETTAI, A. BÖHNE, C. OZOUFCOSTAZ, B. SÉGURENS, A. COULOUX, S. BERNARD-SAMAIN, M. SCHMID, M. SCHARTL AND J.-N. VOLFF. 2006. Molecular analysis of the sex-determining region of the platyfish *Xiphophorus maculatus*. **Zebrafish** 3 (3): 295-305.

**2003**

08. VEITH, A.M., A. FROSCHAUER, C. KÖRTING, I. NANDA, R. HANEL, M. SCHMID, M. SCHARTL, AND J.N. VOLFF. 2003. Cloning of the *DMRT1* transcription factor gene of *Xiphophorus maculatus*: *DMY/DMRIY* is not the master sex-determining gene in the platyfish. **Gene** 317: 59-66.
07. FUREDER, L., B. OBERKOFER, R. HANEL, J. LEITER AND B. THALER. 2003. The freshwater crayfish *Austropotamobius pallipes* in South Tyrol. Heritage species and bioindicator. **Bulletin Francais de la Peche et Pisciculture** 370-71: 81-95.

**2002**

06. FUREDER, L., B. OBERKOFER, R. HANEL AND Y. MACHINO. 2002. Freshwater crayfish in South Tyrol (Italy): Distribution and protection measures of endangered *Austropotamobius pallipes*. **Bulletin Francais de la Peche et Pisciculture** 367: 651-662.
05. HANEL, R., M. WESTNEAT AND C. STURMBAUER. 2002. Phylogenetic Relationships, Evolution of Broodcare Behavior, and Geographic Speciation in the Wrasse Tribe Labrini. **Journal of Molecular Evolution** 55: 776-789.

04. HANEL, R. 2002. Recovery of Fucacean associations and associated fish assemblages in the vicinity of Rovinj, Istrian coast, Northern Adriatic Sea. **Periodicum biologorum** 104/2: 159-163.

#### 2001

03. SUMMERER, M., R. HANEL, AND C. STURMBAUER. 2001. Mitochondrial phylogeny and biogeographic affinities of sea breams of the genus *Diplodus* (Sparidae). **Journal of Fish Biology** 59: 1638-1652.

#### 2000

02. HANEL, R., AND C. STURMBAUER. 2000. Multiple recurrent evolution of trophic types in northeastern Atlantic and Mediterranean seabreams (Sparidae, Percoidei). **Journal of Molecular Evolution** 50: 276-283.

#### 1996

01. HANEL, R., J. KARJALAINEN, AND W. WIESER. 1996. Growth of swimming muscles and its metabolic cost in larvae of whitefish (*Coregonus lavaretus*) at different temperatures. **Journal of Fish Biology** 48: 937-951.

### Book Chapters

03. MATSCHINER M, COLOMBO, M. DAMERAU, M., CEBALLOS, S., HANEL R. AND W SALZBURGER. 2015. The adaptive radiation of notothenioid fishes in the waters of Antarctica. In: Extremophile Fishes – Ecology, Evolution, and Physiology of Teleosts in Extreme Environments (R Riesch, M Tobler & M Plath, eds). Springer. ISBN: 978-3-319-13361-4. pp. 35-57.
02. HANEL, R. AND C. TSIGENOPOULOS. 2011. Phylogeny, evolution and taxonomy of sparids with some notes on their ecology and biology. In: Sparidae: Biology and aquaculture of gilthead bream and other species (Pavlidis, M. and C.C. Mylonas (eds.). Blackwell Science. ISBN: 978-1-4051-9772-4. pp. 51-73.
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