

Publikations - Martin Heß (status 17.02.2025)

A) Original papers

2025

[81] Vogelmann C, Pellmann H, Heß M (2025) Structural insights into branchiopod cysts (Anostraca, Notostraca, Diplostraca) comparing μ CT, SEM, and light microscopy. *Spixiana* (accepted)

[80] Antesberger S, Stiening B, Forsthofer M, Araus AJ, Eroglu E, Huber J, Heß M, Straka H, Sanchez-Gonzalez R (2025) Species-specific blood brain barrier permeability in amphibians. *BMC Biology* 23: 43

2024

[79] Heß M (2024) A safe place to grow up for two endangered species in the Mediterranean: *Epinephelus marginatus* (Lowe, 1834) and *Corallium rubrum* (Linnaeus, 1758) (Anthozoa, Octocorallia, Scleractyonacea). *Spixiana* 47(1): 13-14

[78] Steichele M, Sauermann L, Pan Q, Moneer J, de la Porte A, Heß M, Mercker M, Strube C, Flaswinkel H, Jenewein M, Böttger A (2024) Notch-signaling mediates between two pattern forming processes during head regeneration in Hydra. *Life Science Alliance* 8(1): e202403054

[77] Tröster M, Kotroba M, Heß M (2024) Coevolution of spermatozoa and spermathecae in Lonchopteridae (Diptera). *Arthropod Structure and Development* 82: 101385 (<https://doi.org/10.1016/j.asd.2024.101385>)

[76] Nikonova E, DeCata J, Grimau MC, Barz C, Esser A, Bouterwek J, Roy A, Gensler H, Heß M, Straub T, Forne I, Spletter ML (2024) **Bruno1/CELF regulates splicing and cytoskeleton dynamics to ensure correct sarcomere assembly in *Drosophila* flight muscles.** *PLOS Biology* 22(4): e3002575 (<https://doi.org/10.1371/journal.pbio.3002575>)

[75] Stancu M, Wohlfrom H, Heß M, Grothe B, Leibold C, Kopp-Scheinpflug C (2024) **Ambient sound stimulation tunes axonal conduction velocity by regulating radial growth of myelin on an individual, axon-by-axon basis.** *PNAS* 121(11): e2316439121

[74] Keramidioti A, Schneid S, Busse C, Cramer von Laue C, Bertulat B, Salvenmoser W, Heß H, Alexandrova O, Glauber KM, Steele RE, Hobmayer B, Holstein T, David CN (2024) A new look at the architecture and dynamics of the *Hydra* nerve net. *eLife* 12: RP87330 (DOI: <https://doi.org/10.7554/eLife.87330>)

[73] Nabel AL, Teich L, Wohlfrom H, Alexandrova O, Heß M, Pecka M, Grothe (2024) "Development of Myelination and Axon Diameter for Fast and Precise Action Potential Conductance". *GLIA* 1–15. (<https://doi.org/10.1002/glia.24504>)

2023

[72] Neusser TP, Bergmeier FS, Gensler H, Heß M, Jörger KM, Schrödl M, Brenzinger B (2023) Lebendbeobachtungen und Charakterisierung eines seltenen Exemplars: Gerhard Haszprunar Wien, 1957. **Spixiana** 46(1): 1-5

[71] Melzer RR, Pfannkuchen M, Dujmović S, Mavrić B, Heß M (2023) First record of the golden coral shrimp, *Stenopus spinosus* Risso, 1827, in the gulf of Venice. **Annales: Series Historia Naturalis** 33(1): 113-118 (doi: 10.19233/ASHN.2023.15)

[70] Tröster M, Kotrba M, Heß M (2023) Variation of sperm size and evolution of giant spermatozoa in Lonchopteridae (Diptera). **Arthropod Structure & Development** 75: 101285 (https://doi.org/10.1016/j.asd.2023.101285)

[69] Heß M, Haacke C (2023) 2000 feet under the sea – visiting deep sea habitats off Roatan (Honduras). **Spixiana** 45(2): 151-158

2022

[68] Lastam J, Griesshaber E, Yin X, Rupp U, Sánchez-Almazo I, Heß M, Walter P, Checa A, Schmahl WW (2022) The unique fibrillar to platy nano- and microstructure of twinned foraminiferal shell calcite. (https://doi.org/10.5281/zenodo.6637309)

[67] Lastam J, Griesshaber E, Yin X, Rupp U, Sánchez-Almazo I, Heß M, Walter P, Checa A, Schmahl WW (2022) Patterns of crystal organization and calcite twin formation in planktonic, rotaliid, foraminifera shells and spines. **Journal of Structural Biology** 215(1): 197898

[66] Haszprunar G, Wendler SYC, Jöst AB, Ruthensteiner B, Heß M (2022) 3D-anatomy and systematics of cocculinid-like limpets (Gastropoda: Cocculiniformia): more data, some corrections, but still an enigma. **Zoomorphology** 141: 151-171 (https://doi.org/10.1007/s00435-022-00556-6)

[65] Maiditsch IP, Ladich F, Schulz-Mirbach T, Heß M, Schlepütz C (2022) Fish hearing structures in 4D: A standing wave tube-like setup designed for high resolution tomography of sound-induced motion patterns. **Journal of Experimental Biology** 225, jeb243614. (doi:10.1242/jeb.243614)

2020/21

[64] Callan AR, Heß M, Felmy F, Leibold C (2020) Arrangement of excitatory synaptic inputs on dendrites of the medial superior olive. **Journal of Neuroscience** 41(2): 269-283

[63] Prötzel D, Heß M, Schwager M, Glaw F, Scherz MD (2020) Neon-green fluorescence in the desert gecko *Pachydactylus rangei* caused by a new mechanism for tetrapods. **Scientific Reports** 11:297 (https://doi.org/10.1038/s41598-020-79706-z)

[62] Kotrba M, Tröster M, Gensler H, Ruthensteiner B, Heß M (2020) Morphology and ultrastructure of the spermatozoa of *Lonchoptera lutea* Panzer, 1809 (Diptera: Lonchopteridae). **Arthropod Structure and Development** 60: 101-104 (<https://doi.org/10.1016/j.asd.2020.101004>)

[61] Schulz-Mirbach T, Ladich F, Mittone A, Olbinado M, Bravin A, Maiditsch IP, Melzer RR, Krysl P, Heß M (2020) Auditory chain reaction: Effects of sound pressure and particle motion on auditory structures in fishes. **PLOS ONE** 15(3): e0230578. (<https://doi.org/10.1371/journal.pone.0230578>)

2019 and earlier

[60] Melzer RR, Heß M, Staggl MA, Makovec T, Mavrić B (2019) *Hippolyte prideauxiana* Leach, 1817: First record for the northern Adriatic and observations on mimetic colouration. **Annales Ser Hist Nat** 29(2): 231-234

[59] Schulz-Mirbach T, Plath M, Ladich F, Heß M (Aachen 2019) Why did solid otoliths evolve in the ears of modern bony fishes? **Proceedings of the 23rd International Congress on Acoustics**: 3387-3394

[58] Schulz-Mirbach T, Ladich F, Lychakov DV, Plath M, Heß M (2019) Enigmatic ear stones: What do we know about otolith function in fishes? **Biological Reviews** 94: 457-482 (doi: 10.1111/brv.12463)

[57] Smodlaka Tanković M, Baričević A, Stinga Perusco V, Melzer RR, Izquierdo Lopez A, Dömel JS, Heß M, Kužat N, Marić Pfannkuchen D, Pfannkuchen M (2018) Experimental evidence for shaping and bloom inducing effects of decapod larvae of *Xantho poressa* (Olivi, 1792) on marine phytoplankton. **JMBA** 98(8): 1881-1887

[56] Schulz-Mirbach T, Olbinado M, Rack A, Mittone A, Bravin A, Melzer R, Ladich F, Heß M (2018) In-situ visualization of sound-induced otolith motion using hard X-ray phase contrast imaging. **Scientific Reports** 8: 3121 (12 pp.)

[55] Prötzel D, Heß M, Scherz MD, Schwager M, Padje A, Glaw F (2017) Widespread bone-based fluorescence in chameleons. **Scientific Reports** 8: 698 (9 pp.)

[54] Dreyer N, Hoeg JT, Sorensen S, Heß M, Spremberg U, Yusa Y (2017) When dwarf males and hermaphrodites copulate: first record of mating behavior in a dwarf male using androdioecious barnacle *Scalpellum scalpellum* (Crustacea: Cirripedia: Thoracica) **Organisms Diversity and Evolution** 18: 115-123

[53] Heß M (2017) Ein Hoch auf unseren Chef zum 60. **Spixiana** 40(1): 2-5

[52] Haszprunar G, Kunze T, Warén A, Heß M (2017) A reconsideration of epipodial appendages in basal gastropods (Mollusca): on homologies, modules, and evolutionary scenarios. **Journal of Molluscan Studies** 83: 363-383

[51] Sinclair JL, Fischl MJ, Alexandrova O, Heß M, Grothe B, Leibold C, Scheinpflug C (2017) Sound-evoked activity influences myelination of brainstem axons. **Journal of Neuroscience** 37(34): 8239-8255

- [50] Fernández-Gago R, Heß M, Gensler H, Rocha F (2017) 3D reconstruction of the digestive system in *Octopus vulgaris* Cuvier, 1797 embryos and paralarvae until the first month of life. **Frontiers in Physiology** 8: article 462 (11 pp.)
- [49] Lehmann T, Heß M, Melzer RR (2017) Sense organs in Pycnogonida: A review. **Acta Zoologica** 99(3): 211-230
- [48] Ceseña F, Geiselbrecht H, Heß M, Landmann S, Lehmann T, Mavric B, Melzer RR, Meyer R, Pfannkuchen M, Bursic M (2017) First record of the snapping shrimp, *Automate branchialis* Holthuis & Gottlieb, 1958 for Croatian waters (Decapoda, Alpheidae). **Spixiana** 40(1): 36
- [47] Schwabe E, Heß M, Sumner-Rooney LH, Sellanes J (2017) Anatomy of *Zetela alphonsi* Vilvens, 2002 (Mollusca: Solariellidae) casts doubt on its placement according to conchological characters. **Spixiana** 40(2): 161-170
- [46] Schulze K, Heß M, Schönitzer K (2016) Treehoppers of the ACP Panguana (Peru) (Auchenorrhyncha, Membracidae) with additional faunistik remarks and 3D-SEM illustrations. **Mitteilungen der Münchner Entomologischen Gesellschaft** 106: 39-64
- [45] Matzke-Karasz R, Smith RJ, Heß M (2017) Removal of extracellular coat from giant sperm in the female's receptacle induces sperm motility in *Mytilocypris mytiloides* (Cyprididae, Ostracoda, Crustacea). **Cell and Tissue Research** 368: 171-186
- [44] Melzer RR, Bursic M, Cesena F, Dömel JS, Heß M, Landmann S, Metz M, Pfannkuchen M, Reed I, Meyer R (2016) High decapod diversity revealed by minimal-invasive, short-term survey of Brijuni marine protected area. **Biodiversity and Conservation** 25: 1559-1567
- [43] Kunze T, Heß M, Haszprunar G (2016) 3D-interactive microanatomy of *Ventsia tricarinata* Warén & Bouchet, 1993 (Vetigastropoda: Seguenzioidea) from pacific hydrothermal vents. **Journal of Molluscan Studies** 82: 366–377
- [42] Haszprunar G, Kunze T, Brückner M, Heß M (2016) Towards a sound definition of Skeneidae (Mollusca, Vetigastropoda) 3D-interactive anatomy of the type species *Skenea serpuloides* (Montagu, 1808), and comments on related taxa. **Organisms Diversity and Evolution** 16: 577-595
- [41] Kotrba M, Heß M, Dallai R (2016) Giant spermatozoa of *Diasemopsis* (Diopsidae, Diptera) – Structural, ultrastructural and functional aspects. **Arthropod Structure & Development** 45: 42-56
- [40] Sumner-Rooney LH, Schrödl M, Lodde-Bensch E, Lindberg DR, Heß M, Brennan GP, Sigwart JD (2015) A neurophylogeny approach provides new insight to the evolution of Scaphopoda. **Evolution and Development** 17 (6): 337–346
- [39] Lehmann T, Heß M, Melzer RR (2014) SEM-atlas of the Pycnogonida of the Mediterranean Sea: I: common littoral species. **Zoosystematics and Evolution** 90(2): 163-224 (doi: 10.3897/zse.90.7520)

- [38] Chen CC, Keller M, Heß M, Schiffmann R, Urban N, Wolfgardt A, Schaefer M, Bracher F, Biel M, Wahl-Schott CA, Grimm C (2014) A small molecule restores function to TRPML1 mutant isoforms responsible for mucopolidosis type IV. **Nature Communications** 5: 4681 (doi: 10.1038/ncomms5681)
- [37] Lehmann T, Heß M, Wanner G, Melzer RR (2014) Dissecting an ancestral neural network – FIB-SEM based 3D-reconstruction of the visual neuropils in the sea spider *Achelia langi* (Dohrn, 1881) (Pycnogonida). **BMC Biology** 12: 59
- [36] Bohn JM, Heß M (2014) The Antarctic holothurian genus *Echinopsolus* Gutt, 1990 (Dendrochirotida, Cucumariidae): brood pouches, spermatozoa, spermatozeugmata and taxonomic implications. **Zootaxa** 3841(4): 573-591
- [35] Wild E, Wollesen T, Haszprunar G, Heß M (2014) Comparative 3D-microanatomy and histology of the eyes and central nervous systems in coleoid cephalopod hatchlings. **Organisms Diversity and Evolution** 15: 37-63
- [34] Yamada S, Matzke-Karasch R, Heß M (2014) How is a giant sperm ejaculator formed? Development of the 'Zenker organ' after the last moult in *Pseudocandona marchica* (Crustacea, Ostracoda, Candonidae). **Zoologischer Anzeiger** 253(6): 449-460
- [33] Schulz-Mirbach T, Ladich F, Plath M, Metscher BD, Heß M (2014) Are accessory hearing structures linked to inner ear morphology? – Insights from 3D orientation patterns of ciliary bundles in three cichlid species. **Frontiers in Zoology** 11:25
- [32] Sigwart J, Sumner-Rooney LH, Schwabe E, Heß M, Brennan G, Schroedl M (2014) “Schwabeorgan” Description of a new sensory organ in “primitive” molluscs (Polyplacophora: Lepidopleurida). **Frontiers in Zoology** 11:7
- [31] Haszprunar G, Graf L, Heß M (2013) 3D-anatomy of the ctenoglossate limpet *Kaiparapelta* (Vetigastropoda: Lepetelloidea). **Journal of Molluscan Studies** 80: 84-98
- [30] Schulz-Mirbach T, Heß M, Metscher BD (2013) Sensory epithelia of the fish inner ear in 3D. **Frontiers in Zoology** 10:63
- [29] Kotrba M, Heß M (2013) Giant spiral shaped spermatozoa of *Diasemopsis comoroensis* (Diptera, Diopsidae) with a unique ultrastructural component. **Tissue and Cell** 45(6): 443-445
- [28] Schulz-Mirbach T, Heß M, Metscher BD, Ladich F (2013) A unique swim bladder-inner ear connection in a teleost fish revealed by a combined high-resolution microCT and 3D histological study. **BMC Biology** 11:75
- [27] Hawe A, Heß M, Haszprunar G (2013) 3D-Reconstruction of the anatomy of the ovoviviparous (?) freshwater gastropod *Borysthenia naticina* (Menke, 1845) (Ectobranchia: Valvatidae). **Journal of Molluscan Studies** 79(3): 191-204
- [26] Lehmann T, Heß M, Melzer R (2012) Wiring a periscope - ocelli, retinula axons, visual neuropils and the ancestry of sea spiders. **PLoS ONE** 7(1): e30474

- [25] Schulz-Mirbach T, Heß M, Plath M (2011) Inner ear morphology in the atlantic molly *Poecilia Mexicana* – first detailed microanatomical study of the inner ear of a cyprinodontiform species. **PLoS ONE** 6(11): e27734. 14 pp.
- [24] Haszprunar G, Speimann E, Hawe A, Heß M (2011) Interactive 3D-anatomy and affinities of the Hyalogyrinidae, basal Heterobranchia with a rhipidoglossate radula. **Organisms Diversity and Evolution** 11(3): 201-236
- [23] Koch PC, Heß M (2011) Topographic mapping of retinal neurons in the European anchovy by nuclear staining and immunocytochemistry. **Journal of Neuroscience Research** 89: 1316-1330
- [22] Hartmann H, Heß M, Haszprunar G (2011) Anatomy and affinities of Bathysciadiidae (Gastropoda, Cocculinoidea), deep-sea limpets feeding on decaying cephalopod beaks. **Journal of Morphology** 272: 259-279
- [21] Martin R, Schrödl M, Heß M, Tomaschko KH (2010) Cnidosac-related structures in *Embletonia* (Mollusca, Nudibranchia) compared with dendronotacean and aeolidacean species. **The Open Marine Biology Journal** 4: 96-100
- [20] Koch PC, Seebacher C, Heß M (2010) 3D-topography of cell nuclei in a vertebrate retina – a confocal and two-photon microscopic study. **Journal of Neuroscience Methods** 188: 127-140
- [19] Neusser TP, Heß M, Schrödl M (2009) Tiny but complex – interactive 3D visualization of the interstitial acochlidian gastropod *Pseudunela cornuta* (Challis, 1970). **Frontiers in Zoology** 6: 20
- [18] Heß M (2009) Triple cones in the retinae of three anchovy species: *Engraulis encrasicolus*, *Cetengraulis mysticetus* and *Anchovia macrolepidota* (Engraulididae, Teleostei). **Vision Research** 49: 1569-1582
- [17] Jörger K, Heß M, Neusser T, Schrödl M (2009) Sex in the beach – spermatophores, dermal insemination, and 3D sperm ultrastructure of the aphyllid, acochlid *Pontohedyle milaschewitchii* (Acochlidia, Opisthobranchia, Gastropoda). **Marine Biology** 156: 1159-1170
- [16] Martin R, Heß M, Schrödl M, Tomaschko KH (2008) Cnidosac morphology in dendronotacean and aeolidacean nudibranch molluscs: from expulsion of nematocysts to use in defense? **Marine Biology** 156: 261-268
- [15] Egea J, Erlacher C, Montanez E, Burtscher I, Yamagishi S, Heß M, Hampel F, Sanchez R, Rodriguez-Manzanique MT, Boesl M, Fässler R, Lickert H, Klein R (2008): A novel morphogenetic function for the anterior visceral endoderm in restricting epithelial-to-mesenchymal transition to the primitive streak. **Genes & Development** 22: 3349-3362
- [14] Heß M, Beck F, Gensler H, Kano Y, Kiel S, Haszprunar G (2008) Microanatomy, shell structure, and molecular phylogeny of *Leptogyra*, *Xyleptogyra* and *Leptogyropsis* (Gastropoda, Neomphalida, Melanodrymiidae) from sunken wood. **Journal of Molluscan Studies** 74(4): 383-401
- [13] Ruthensteiner B, Heß M (2008) Embedding 3D-models of biological specimens in pdf-publications. **Microscopy Research and Technique** 71(1): 778-786

- [12] Kunze T, **Heß M**, Brückner M, Beck F, Haszprunar G (2008) Skeneimorph gastropods in Neomphalina and Vetigastropoda – a preliminary report. **Zoosymposia** 1: 119-131
- [11] **Heß M** (2007) Semi-automated mapping of cell nuclei in 3D-stacks from optical-sectioning microscopy. **Lecture Notes in Artificial Intelligence** 4826: 156-164
- [10] Neusser TP, **Heß M**, Haszprunar G, Schrödl M (2007) Sperm ultrastructure of *Microhedyle remanei*, an interstitial acochlidian gastropod with dermal fertilization. **Journal of the Marine Biological Association of the UK** 87: 747-754
- [9] **Heß M**, Melzer R, Eser R, Smola U (2006) The structure of anchovy outer retinae - a comparative light- and electron-microscopic study with museum-stored material. **Journal of Morphology** 267(11): 1356-1380
- [8] Neusser TP, **Heß M**, Haszprunar G, Schrödl M (2006) Computer-based 3-dimensional reconstruction of the anatomy of *Microhedyle remanei* (Marcus, 1953), an interstitial acochlidian gastropod from Bermuda. **Journal of Morphology** 267(2): 231-247
- [7] Haszprunar G, **Heß M** (2005) A new *Rhodope* (Gastropoda: Nudibranchia?) from the Roscoff area (Bretagne), with review of *Rhodope* species. **Spixiana** 28(3): 193-197
- [6] **Heß M**, Melzer R (2003) *Anoplodactylus petiolatus* (Pycnogonida) and *Hydractinia echinata* (Hydrozoa) - observations on galls, feeding behaviour and the host's defence. **Vie et Milieu** 53(2/3): 135-138
- [5] **Heß M**, Melzer R, Smola U (2002) The pattern of cone pedicles and horizontal cells in the retina of the European anchovy, *Engraulis encrasicolus* L. (Engraulidae, Clupeiformes). **Journal of Submicroscopic Cytology and Pathology** 34(4): 355-365
- [4] Haacke C, **Heß M**, Melzer R, Gebhart H, Smola U (2001) Fine structure and development of the retina of the grenadier anchovy *Coilia nasus* (Engraulidae, Clupeiformes). **Journal of Morphology** 248: 41-55
- [3] **Heß M**, Melzer R, Smola U (1998) The photoreceptors of *Muraena helena* (Linnaeus1758) (Teleostei: Muraenidae) and *Ariosoma balearicum* (Delaroche1809) (Teleostei: Congridae) - a comparison of multiple bank retinae in Anguilliformes. **Zoologischer Anzeiger** 237: 127-137
- [2] **Heß M**, Melzer R, Smola U (1996) The eyes of a "nobody", *Anoplodactylus petiolatus* (Pantopoda; Anoplodactylidae). **Helgoländer Meeresuntersuchungen** 50: 25-36
- [1] Melzer R, **Heß M**, Dunkel C, Ludwig P, Smola U (1995) Fine structure of the "slit organs" of the pycnogonid *Anoplodactylus petiolatus*. (Pantopoda; Anoplodactylidae). **Acta Zoologica** 77(2): 167-171

B) Book chapters (science)

[#5] Melzer RR, Brenzinger B, Lehmann T, Markovec T, Mavric B, Meyer R, Staggel MA, **Heß M** (2022) Marine Microworlds – Excursions to the Bottom of the Adriatic Sea. **Verlag Dr. Friedrich Pfeil** 320 pp. (ISBN 978-3-89937-273-1)

[#4] Melzer R, Ceseña F, Bursic M, Lehmann T, Meyer R, Mavric B, Makovec T, Dömel J, Pfannkuchen M, McHenry J, **Heß M** (2019) **Knights, Ballerinas and Invisibles - The Decapod Crustaceans of the Brijuni Marine Protected Area** (Vitezovi, balerine i nevidljivi - Rakovi deseteronošci zaštićenog morskog područja Nacionalnog parka Brijuni) **Schwarzprint**, Pula (ISBN 978-953-7264-11-6)

[#3] Cremer T, Markaki Y, Hübner B, Zunhammer A, Strickfaden H, Beichmanis S, **Heß M**, Schermelleh L, Cremer M, Cremer C (2012) Chapter 13 Chromosome territory organization within the nucleus. In Meyers RA (ed.), **Encyclopedia of Molecular Cell Biology and Molecular Medicine Vol 2** (2nd edition), John Wiley & Sons Ltd, pp. 451-483 (ISBN 978-3-527-32682-2)

[#2] Laforsch C, Imhof HK, Sigl RM, **Heß M**, Settles M, Wanninger A (2012) Applications of computational 3D-modeling in organismal biology. In: Catalin Alexandru (ed), **Modeling and Simulation in Engineering**. InTech Open Access Publisher. Rijeka, pp. 117-142 (ISBN 978-953-307-959-2)

[#1] **Heß M** (2001) Sedimentböden. in: Hofrichter R (ed), **Das Mittelmeer: Flora, Fauna, Ökologie** Band 1, Spektrum Akademischer Verlag, Heidelberg, pp. 384-403 (ISBN 978-3-8274-1050-4) + **updated new edition 2020**

B') Book chapters (diving)

[#6] **Heß M** et al. (2015) Tauchen Lernen 1. Ein Lehrbuch des Verbandes Deutscher Tauchlehrer e.V. Redaktion und Überarbeitung zur 7. Auflage (6. Auflage ditto 2004), VDTL Eigenverlag, ... pp.

[#5] **Heß M**, Werner F (2011) Forschungstauchen. In: Klingmann/Tetzlaff (eds.) Moderne Tauchmedizin 2. Auflage, Gentner Verlag, Stuttgart, p. 453-462. (ISBN 978-3-87247-744-6)

[#4] **Heß M**, Amann K (2010) Tauchen Lernen 2 - Spezialkurse. Ein Lehrbuch des Verbandes Deutscher Tauchlehrer e.V. Redaktion und Überarbeitung zur 2. Auflage, VDTL-Eigenverlag, 198 pp. (ISBN 978-3-940910-01-1) Autor der Kapitel „Bergseetauchen“ und „Eistauchen / Tauchen in kalten Gewässern“, Coautor „Strömungstauchen“.

[#3] **Heß M** et al. (2008) Learning to Dive 1. A schoolbook of the German Association of Diving Instructors. Redaktion der 1. englischen Auflage auf Grundlage der 6. deutschen Auflage, VDTL-Eigenverlag, 70pp. (ISBN 978-3-940910-00-)

[#2] **Heß M** (2007) Tipps für Tauchlehrer. In: Klingmann/Tetzlaff (eds.) Moderne Tauchmedizin 1. Auflage, Gentner Verlag, Stuttgart, 791 pp. (ISBN 978-3-87247-645-6)

[#1] Schmitt M, **Heß M** (2007) Tauchberufe und Arbeiten auf einer Tauchbasis. In: Klingmann/Tetzlaff (eds.) Moderne Tauchmedizin 1. Auflage, Gentner Verlag, Stuttgart, p. 730-740. (ISBN 978-3-87247-645-6)

B“) Book reviews

- [5] Plattner H (2022) Abenteuer Zellbiologie – Streifzüge durch die Geschichte. In: BIoSpektrum 1.22: 109
- [4] Häussermann V, Försterra G (eds 2009) Marine Benthic Fauna of Chilean Patagonia. Nature in Focus. In: Spixiana 2011, 34(2): 287 (deutsch) + 288 (English)
- [3] Taylor L (ed. 1999) Haie und Rochen. Delius Klasing. In: Der Tauchlehrer 200x, VDTL
- [2] Bender, HF (1995). Sicherer Umgang mit Gefahrstoffen, VCH. In: Hutzinger, O. (ed.), Umweltwissenschaften und Schadstoff-Forschung, ecomed Verlagsgesellschaft, Landsberg
- [1] Dekant W, Vamvakas S (1994). Toxikologie für Chemiker und Biologen, Spektrum. In: Hutzinger, O. (ed.), Umweltwissenschaften und Schadstoff-Forschung, ecomed Verlagsgesellschaft, Landsberg

C) Abstracts

- [83] Maiditsch IP, Schulz-Mirbach T, Ladich F, Stampanoni M, Heß M, Schlepütz CM (New Orleans, 2025) Tomographic imaging using an experimental standing wave tube-like setup to explore moving fish hearing structures. 188th Meeting of the Acoustic Society of America, joint with 25th International Congress on Acoustics: ...
- [82] Schlepütz CM, Maiditsch IP, Qu Q, Heß M, Schulz-Mirbach T (Stellenbosch, 2024) Revealing sound-induced motion patterns in the auditory system of fish. 6th International Conference on Tomography of Materials & Structures (ICTMS). Book of abstracts: 90
- [81] Seydel C, Heß M, Klingl A, Nägele T (Darmstadt, 2023) Structural and metabolic dynamics of plant cells in context of heat acclimation. Microscopy Conference Proceedings: 337 + Poster
- [80] Bergmeier FS, Brenzinger B, Fernández-Gago R, Gensler H, Haszprunar G, Hawe A, Heß M, Hobelsberger L, Jörger KM, Kunze T, Kohnert PC, Neusser TP, Pinkau C, Schrödl M, Schwabe E, Wild E (Munich, 2022) 20 years of 3D microanatomical research by the Munich malacologists around Prof. Haszprunar – a synopsis. WCM 2022; Spixiana Supplement 30A: 350 (doi 10.23788/SPX-Suppl30A) + Posterband Spixiana Supplement 30 B: 67 (doi 10.23788/SPX-Suppl30B)
- [79] Inshyna V, Kaczmarek L, Perkovsky E, Hammel JU, Heß M, Haug JT (Kraków 2022) New fossil Eutardigrada from Rovno Eocene amber (Ukraine, 33-38 MYA). 15th International Symposium on Tardigrada:
- [78] Schulz-Mirbach T, Schlepütz CM, Heß M, Gstöhl SJ, Maiditsch IP, Ladich F (Viena, 2021) The Weberian apparatus in action - How do the auditory structures of otophysan fishes interact during sound exposure? 92nd Annual meeting of the Paleontological Society. Berichte der Geologischen Bundesanstalt 142: 83

[77] Callan AR, **Heß M**, Leibold C, Felmy F (San José, Calif. 2020) *Arrangement of Contact Sites from Single Excitatory Fibers on Medial Superior Olive Dendrites*. 43rd ARO MidWinter Meeting. Abstracts of the Association for Research in Otolaryngology: 535

[76] Schulz-Mirbach T, Mittne A, Olbinado M, Schlepütz C, Ladich F, Maiditsch IP, Krysl P, Melzer R, **Heß M** (Munich, 2019) How do fish otoliths and ancillary hearing structures move in a sound field? – Insights from synchrotron radiation-based imaging. *Palaeo & Life* 2019: 137

[75] Schulz-Mirbach T, **Heß M** (2018) Grundlagen der Schallübertragung im Fischohr. 97. Jahresbericht der Münchener Universitätsgesellschaft: 10-13

[74] Schulz-Mirbach T, Olbinado MP, Mittone A, Schillinger B, Ladich F, Melzer RR, **Heß M** (Munich, 2018) The rolling stones live: Hard X-ray phase contrast and neutron imaging allow for the in-situ visualization of otolith motion and associated structures in the fish ear. German conference for research with synchrotron radiation, neutrons and ion beams at large facilities, SNI report of abstracts: 227

[73] Schulz-Mirbach T, Mittone A, Bravin A, Rack A, Ladich F, **Heß M** (Boston, 2017) First attempt to visualize otolith motion in situ using synchrotron radiation imaging techniques. *J Acoust Soc Am* 141: 3861

[72] Schulz-Mirbach T, Rack A, Olbinado M, Mittone A, Bravin A, Ladich F, **Heß M** (Munich, 2017) First visualization of the *in-situ* motion of otoliths in the fish ear. European Association of Vertebrate Palaeontology EAVP, *Zitteliana* 91: 82.

[71] Scheungrab M, Schulze K, Boergens K, Gour A, Helmstaedter M, Wanner G, **Heß M** (Kiel, 2016) A retinal connectomics study using a combination of mechanical and FIB-based BFSEM. 109. Annual meeting of the German Zoological Society, abstract book: 113

[70] Fernández-Gago R, **Heß M**, Gensler H, Rocha F (Lissabon, 24.11.2015) A 3D description of the development of the gut in *Octopus vulgaris* paralarvae. CEPHS/INACTION workshop, abstract book

[69] Fernández-Gago R, **Heß M**, Gensler H, Rocha F (Hakodate, 6.11.2015) 3D reconstruction of the digestive system in newly hatched *Octopus vulgaris* Cuvier, 1797 paralarvae. CIAC 2015 Conference, abstract book

[68] Rutkowski A, **Heß M** (Graz, 2015) The optic chiasm in the *Octopus vulgaris* hatchling. 108. Annual meeting of the German Zoological Society, abstract book: 95

[67] Schulz-Mirbach T, Ladich F, Plath M, **Heß M** (Porto, Portugal 2015) The role of otolith size in hearing – insights from cichlid fishes. 15. European Congress of Ichthyology, *Frontiers in Marine Sciences*, Conference Abstracts (doi: 10.3389/conf.fmars.2015.03.00034)

[66] Schulz-Mirbach T, Ladich F, Plath M, **Heß M** (Porto, Portugal 2015) Does improved hearing result in altered inner ear morphology? 15. European Congress of Ichthyology, *Frontiers in Marine Sciences*, Conference Abstracts (doi: 10.3389/conf.fmars.2015.03.00020)

- [65] Scheungrab M, Guder, P, Schulze K, Börgens K, Gour A, Helmstaedter M, Wanner G, **Heß M** (Göttingen, 2015) 3D-imaging and analysis of neural networks using combined 3D-EM approaches. Microscopy Conference 2015 Proceedings: 800
- [64] Scheungrab M, Schulze K, Wanner G, **Heß M** (Göttingen, 2015) Order in the chaos - unscrambling the interlaced fine structures of anchovy cone pedicles. Proceedings of the 11th Meeting of the German Neuroscience Society: 689-699
- [63] Lehmann T, **Heß M**, Melzer RR (München, 2014) SEM atlas of the sea spiders (Pycnogonida) of the Mediterranean Sea: common littoral species. 8th Meeting of NOBIS Austria, abstract book: 27
- [62] Schulze K, **Heß M**, Schönitzer K (München, 2014) Treehoppers (Hemiptera, Membracidae) of Panguana (Peru). A close look on strange shapes. 8th Meeting of NOBIS Austria, abstract book: 36
- [61] Schulz-Mirbach T, Ladich F, Plath M, Metscher BD, **Heß M** (Mallorca, 2014). What do we know about otolith function in hearing? – insights from cichlids and lifebearing fish. 5th International otolith symposium, abstract book: 93-94
- [60] Scheungrab M, Koch P, Schulze K, Wanner G, **Heß M** (Göttingen, 2014) 3D fine structure and interconnections of cone pedicles in the European anchovy. 107. Annual meeting of the German Zoological Society, abstract book: 226
- [59] de Motte A, Bierling M, Gensler H, **Heß M** (Göttingen, 2014) Pattern and density distribution of photoreceptors in the zebrafish retina. 107. Annual meeting of the German Zoological Society, abstract book: 202
- [58] Sumner-Rooney L, Sigward J, Williams S, **Heß M**, Schwabe E (Berlin, 2014) The evolution of eye reduction: lessons from a family of deep-sea gastropods. ICIM3 abstracts: 51
- [57] Jörger K, Brenzinger B, **Heß M**, Schrödl M, Neusser T (Berlin, 2014) Tales of miniaturization and progenesis: A comparative histological and ultrastructural approach to investigate morphological convergence in mesopsammic slugs. ICIM3 abstracts: 162
- [56] **Heß M**, Koch P, Scheungrab M, Wanner G (München, 2013) Disentangling retinal connectomics with 3D electron microscopy. 106. Annual meeting of the German Zoological Society (Satellite Symposium on 3D Electron Microscopy), abstract book: 60
- [55] de Motte A, **Heß M** (München, 2013) Pseudo 4D-Rekonstruktion der Kopfregion einer Fischlarve (*Engraulis encrasicolus*). 106. Annual meeting of the German Zoological Society, abstract book: 254
- [54] Schulze K, **Heß M** (München, 2013) The pattern of triple cone pedicles in the anchovy retina. 106. Annual meeting of the German Zoological Society, abstract book: 331

[53] Sumner-Rooney LH, Sigwart JD, Schwabe E, **Heß M**, Brennan GP, Schroedl M (Azoren, 2013) Seeing the world through new eyes: a novel sensory organ in basal chitons (Lepidopleurida) Açoreana Suppl 8 (18th WCM abstracts): 154

[52] Schulz-Mirbach T, Metscher B, **Heß M**, Ladich F (Sarasota, 25.05.2013) Do swim bladder specializations in chichlids correlate with modified inner ear morphology? (Abstracts of "50 Years of Underwater Bioacoustics" – A symposium honoring the outstanding careers of Arthur N Popper and Richard R Fay @ Mote Marine Laboratory)

[51] Kretzler F, **Heß M** (Bremen, 2013) Underwater visual stimulation and videography of bivalve behavior. Berichte aus dem MARUM und dem Fachbereich Geowissenschaften der Universität Bremen 292 (Abstracts of the 3rd International Workshop „Research in Shallow Marine and Fresh Water Systems“): 100

[50] **Heß M** (Bremen, 2013) CEDIP Under Water Nature Guide – between scientific education and environmental protection. Berichte aus dem MARUM und dem Fachbereich Geowissenschaften der Universität Bremen 292 (Abstracts of the 3rd International Workshop „Research in Shallow Marine and Fresh Water Systems“): 97

[49] Sieber M, Scheungrab M, Wullimann M, **Heß M** (Konstanz, 2012) Das Fischgehirn in 3D – ein neuer Ansatz des funktionsmorphologischen Arbeitens. 104. Annual meeting of the German Zoological Society, Abstract Book: 137

[48] Schulz-Mirbach T, Ladich F, **Heß M**, Plath M (Liège, 2012) Microanatomy of the inner ear and hearing abilities in a cyprinodontiform fish. ECI abstracts: 201 (14. European Congress of Ichthyology 3.-8.7.2012)

[47] Bottesch M, **Heß M** (München, 2011) 3D Morphologie des Stomatopodenauges. 4. Graduiertenforum der DZG-Fachgruppe Morphologie, abstracts: 30

[46] Hawe A, **Heß M**, Colling M, Haszprunar G (München, 2011) 3D-reconstruction of the freshwater snail *Borysthenia naticina*, Menke 1845 (Heterobranchia: Valvatidae) with a closer look on the genital system. 4. Graduiertenforum der DZG-Fachgruppe Morphologie, abstracts: 26

[45] Scheungrab M, Sieber M, Wullimann M, **Heß M** (München, 2011) 3D histology and microanatomy of the teleost brain – a new approach of an interactive digital atlas. 4. Graduiertenforum der DZG-Fachgruppe Morphologie, abstracts: 38

[44] Koch P, **Heß M** (München, 2011) Durchblick im Dendritengewirr der Sardellenretina: FIB-FESEM basierte 3D Rekonstruktion eines neuronalen Netzwerkes. 4. Graduiertenforum der DZG-Fachgruppe Morphologie, abstracts: 19

[43] Schulz-Mirbach T, Ladich F, **Heß M**, Plath M (La Rochelle, 2011) Inner ear morphology and hearing abilities in a cave-dwelling form of the Atlantic molly, *Poecilia mexicana* (Teleostei; Poeciliidae) . 23rd IBAC meeting, abstracts: 143

- [42] **Heß M**, Koch P, Wanner G (Amsterdam, 2011) Disentangling the neuronal network of the retina in 10 nm isotropic resolution. 3rd European Retina Meeting abstracts: 105
- [41] Koch P, **Heß M** (Amsterdam, 2011) A closer look into the anchovy retina: FIB-FESEM based 3D-reconstruction of a neuronal network. 3rd European Retina Meeting abstracts: 60
- [40] **Heß M**, Scharpf E, Holz S (Saarbrücken, 2011) Geometry of photoreceptor wiring in the outer plexiform layer of cephalopod optic lobes. 104. Annual meeting of the German Zoological Society, Abstract Book: 108
- [39] Scharpf E, Haszprunar G, **Heß M** (Stuttgart, 2011) 3D-microanatomy of cephalopod brains: a comparative study on the hatchlings of six species. 4th International Symposium "Coleoid cephalopods through time", abstracts volume: 63-64
- [38] **Heß M**, Koch PC, Wanner G (Göttingen, 2011) Disentangling the retinal cable mess – FIB-SEM based 3D-reconstruction of the anchovy inner retina in high resolution. Proc 33rd Göttingen Neurobiology Conf: 1074
- [37] Hawe A, Haszprunar G, **Heß M** (Wien, 2010) Kleine Schnecken ganz groß: 3D-Rekonstruktion mariner Mikrogastropoden am Beispiel von *Hyalogyrina glabra* und *Hyalogyrina grasslei* (Heterobranchia: Ectobranchia). 3. Graduiertenforum der DZG-Fachgruppe Morphologie, abstracts: 39
- [36] Koch PC, Wanner G, **Heß M** (Wien, 2010) Solving the gordian knot: The outer plexiform layer of the European anchovy *Engraulis encrasicolus* investigated by Focussed Ion Beam-SEM. 3. Graduiertenforum der DZG-Fachgruppe Morphologie, abstracts: 41
- [35] Scharpf E, Haszprunar G, **Heß M** (Wien, 2010) Comparative 3D-microanatomy of the central nervous system in coleoid cephalopods. 3. Graduiertenforum der DZG-Fachgruppe Morphologie, abstracts: 44
- [34] **Heß M**, Koch PC (Wien, 2010) Erfassung, Analyse und Visualisierung von 3D-Strukturdaten am Beispiel von Sehsystemen. 3. Graduiertenforum der DZG-Fachgruppe Morphologie, abstracts: 18-19
- [33] Weinzierl C, **Heß M**, Haszprunar G (Phuket, 2010) The bivalve mantle – a preliminary report. 17th World Congress of Malacology 2010, Tropical Natural History Suppl 3:184
- [32] Hartmann H, **Heß M**, Haszprunar G (Phuket, 2010) Interactive 3D-anatomy and affinities of Bathysciadiidae (Gastroipoda, Coccuinoidea), deep-sea limpets feeding on decaying cephalopod beaks. 17th World Congress of Malacology 2010, Tropical Natural History Suppl 3:73
- [31] **Heß M**, Fezert P (Hamburg, 2010) Outer segment formation in anchovy cone photoreceptors. 103. Annual meeting of the German Zoological Society, Abstract Book: 160
- [30] Kotrba M, **Heß M** (San Jose, Costa Rica, 2010) XXL – Giant spermatozoa in *Diasemopsis comoroensis* (Diopsidae). 7th Int Congr Dipterology, abstracts: 134 und (Berlin 2011) BioSystematics, abstracts: 206
- [29] Koch PC, **Heß M** (Bielefeld, 2010) Visualizing „invisible“ tissue: topography of immunocytochemically labeled retinal neurons of the European anchovy *Engraulis encrasicolus*. 21st Neuro-DoWo 10 abstracts: 84-85

- [28] Koch PC, Seebacher C, **Heß M** (Würzburg 2009) Valleys deep, mountains high – retinal 3D-topography of cell nuclei in the anchovy retina. 20th Neuro-DoWo 09 abstracts: 112-113
online: <http://132.187.22.188/zoo2/dowo.php?id=19>
- [27] Koch P, **Heß M** (München, 2009). Insights into anchovy vision – retinal neuroanatomy of *Engraulis encrasicolus*. Interact 2009 - 2. PhD symposium of the life science community Munich. abstracts: 77
- [26] Scharpf E, Haszprunar G, **Heß M** (Luxembourg, 2008). Coleoid cephalopod retinae – a comparative morphological approach. 3rd International Symposium “Coleoid cephalopods through time“, abstracts: 25-27
- [25] **Heß M** (Jena, 2008) Looking deep into your eyes – a morphological multi-method approach to learn about vertebrate vision. 101. Annual meeting of the German Zoological Society, Abstract Book, p. 68
- [24] Kretzler F, Haszprunar G, Kunze T, **Heß M** (Ponta Delgada, São Miguel Island, Azores 2008). 3D-reconstruction of bivalve compound eyes. 5th congress of the european malacology societies, abstractbook online: www.euromalac2008.org/5theurope_pos.html
- [23] Kunze T, Heß M, Haszprunar G (Ponta Delgada, São Miguel Island, Azores 2008). What is a really Skeneid? – The microanatomy of *Skenea serpuloides* (Montagu, 1808) (Gastropoda, Vetigastropoda) 5th congress of the european malacology societies, abstractbook online: www.euromalac2008.org/5theurope_abstracts.html
- [22] Migawski T, **Heß M** (Fort Lauderdale, Florida 2008). Pseudo-4D visualization of the seahorse larva head during ontogenesis. 11. International Coral Reef Symposium, abstracts: 365
- [21] Kunze T, **Heß M**, Haszprunar G (Carbondale, Illinois 2008). The microanatomy of the skeneimorph *Ventsia tricarinata* Warén & Bouchet, 1993, a small seguenzoid from Pacific hydrothermal vents (Vetigastropoda). American malacological society 74th annual meeting, abstracts: 33
- [20] Patzner I, Haszprunar G, Kunze T, **Heß M** (Carbondale, Illinois 2008). Comparative 3D-microanatomy of the visual system of cephalopod hatchlings. American malacological society 74th annual meeting, abstracts: 46
- [19] **Heß M** (Göttingen, 2008). Fish eye 3D - digital 3D-morphology on different scales. 10th annual meeting of the society of biological systematics (GfBS) - workshop “pixel-voxel-morphology“, abstractbook: 397
- [18] **Heß M** (München, 2008). Anchovy retinae: what do structures tell us about alien vision?. 6th conference of the society of ichthyology (GFI), abstractbook: 23-24
- [17] Kunze T, Beck F, Brückner M, **Heß M**, Ruthensteiner B, Haszprunar G (Antwerpen, 2007). Skeneimorph gastropods in Neomphalida and Vetigastropoda. World Congress of Malacology 2007, abstracts: 122
- [16] Kunze T, **Heß M**, Haszprunar G (Antwerpen, 2007). The Microanatomy of *Bathyxyllophila excelsa* Marshall, 1988, and *Ventsia tricarinata* Warén & Bouchet, 1993, two Skeneimorph Vetigastropods from Pacific Deep Sea Habitats (Vetigastropoda). World Congress of Malacology 2007, abstracts: 122-123

- [15] Jörger K, **Heß M**, Schrödl M (Antwerpen, 2007). Sex in the beach: reproduction of the aphyllid, interstitial *Pontohedyle milaschewitchii* (Acochlidia, Opisthobranchia) World Congress of Malacology 2007, abstracts: 108
- [14] Speimann E, **Heß M**, Haszprunar G (Antwerpen, 2007). 3D-anatomy of the rhipidoglossate heterobranchs *Hyalogyrina depressa* Hasegawa, 1997 and *Xenoskenea pellucida* Monterosato, 1874 (Gastropoda, Ectobranchia). World Congress of Malacology 2007, abstracts: 212
- [13] Grundmann C, **Heß M** (Köln, 2007). Pseudo 4D reconstruction of the flatfish head during metamorphosis in the turbot *Psetta maxima*. Abstractband der 100. DZG Jahrestagung: 184 (100. Annual meeting of the German Zoological Society, abstract book: 184)
- [12] Speimann E, **Heß M**, Haszprunar G (Wien, 2007). The Microanatomy of *Xenoskenea pellucida* (Monterosato, 1874) (Gastropoda, Heterobranchia, Ectobranchia). Abstracts of the 9th annual congress of the GfBS, ODE 7(3): 252 file 1 page 99 and file17 (poster)
- [11] Kunze T, **Heß M**, Haszprunar G (Wien, 2007). The microanatomy of *Ventsia tricarinata* Warén & Bouchet, 1993, a coiled vetigastropod from pacific hydrothermal vents (Mollusca). Abstracts of the 9th annual congress of the GfBS, ODE 7(3): 252 file 1 page 67 and file12 (poster)
- [10] Beck F, **Heß M**, Haszprunar G (Wien, 2007). The Microanatomy of *Leptogyra constricta* Marshall, 1988 and *Leptogyropsis kalinovoae* Marshall, 1988 (Vetigastropoda, Skeneidae). Abstracts of the 9th annual congress of the GfBS, ODE 7(3): 252 file 1 page 11 and file3 (poster)
- [9] Koch P, **Heß M** (Münster, 2006). Pseudo-4D-visualization of a flatfish head during metamorphosis. Abstractband der 99. DZG Jahrestagung: 137 (99. Annual meeting of the German Zoological Society 16.-20.9.06 Münster, abstract book: 137)
- [8] **Heß M** (Bayreuth, 2005). Cone topography in the retina of the snake eel *Ophisurus serpens*. Abstractband der 98. DZG Jahrestagung: 117
- [7] Neusser T, Haszprunar G, **Heß M** and Schrödl M (Perth, 2004). Microanatomy and ultrastructure of *Unela* sp., an interstitial acochlidian gastropod from Bermuda. World Congress of Malacology Abstracts: 107
- [6] **Heß M** and Haacke C (Rostock, 2004). A method for 3D mapping of cell nuclei in the vertebrate retina. Abstractband der 97. DZG Jahrestagung: 84
- [5] **Heß M**, Melzer R R, Eser R and Smola U (Innsbruck, 1999). A comparative study on the fine structure of clupeoid outer retinae. ZACS 102 Suppl 2: 41
- [4] **Heß M**, Melzer R R and Smola U (Leipzig, 1998). Density map and patterns of cone photoreceptors in the retina of the European anchovy *Engraulis encrasicolus* L. (Engraulidae, Clupeiformes). ZACS 101 Suppl 1: 38
- [3] **Heß M**, Melzer R R and Smola U (Göttingen, 1997). The pattern of cone-pedicles in the retina of the European anchovy, *Engraulis encrasicolus* L. (Engraulidae, Clupeiformes). Proc 25th Göttingen Neurobiology Conf Vol 1: 489

[2] **Heß M**, Melzer R R and Smola U (Oldenburg, 1996). Die Photorezeptoren der Europäischen Sardelle *Engraulis encrasicolus* L. (Engraulidae, Clupeiformes). Verh Dt Zool Ges 89: 212

[1] **Heß M**, Melzer R R and Smola U (Kaiserslautern, 1995). Die mehrreihige Retina des Balearencongors *Ariosoma balearicum*. Verh Dt Zool Ges 88: 163

Poster only

[P12] Nabel A, Wohlfrom H, Alexandrova O, **Heß M**, Gundi P, Pecka M, Grothe B (München, März 2019) Development of specific functional axn and myelin morphology in auditory brainstem circuits. SFB 870 Poster

[P11] **Heß M** (München, Juni 2018) Casting an eye at the most heavily exploited fish in world history. World Ocean Day (8.6.2018)

[P10] Kopp-Scheinflug C et al. (München, Juli 2017) Ion Channel Function in Axonal Conduction. SFB 870 Poster

[P9] Schulz-Mirbach T, **Heß M**, Metscher BD (Jena, Oktober 2015) Fish ears in 3D - Advantages & limitations of high-resolution contrast enhanced microCT. 3rd µCT workshop

[P8] Schulze K, **Heß M**, Schönitzer K (München, 2013) Buckelzikaden (Membracidae) von Panguana: skurrile Formen aus der Nähe betrachtet. Vernissage (8.11.2013) und Ausstellung „Panguana – ein Regenwald und wir“ in der ZSM München (11.11. – 20.12.2013)

[P7, P7'] Haszprunar G, **Heß M**, Neusser T, Jörger K (München, 2013) Arbeitsgruppe Systematische Zoologie. 2 Poster zur Vorstellung der Forschungsabteilung im Rahmen des Tages der offenen Tür des Biozentrums und des Fakultätsfestes am 11.07.2013

[P6] Joaquim Egea, Christian Erlacher, Satoru Yamagishi, **Martin Heß**, Rodrigo Sanchez, Conchi Martinez, Rüdiger Klein (München, 2006) Genetic Analysis of Head Formation and Ventral Body Closure (Targeting of the FLRT Family of Transmembrane Proteins). Poster zur Projekt-Evaluation am MPI für Neurobiologie.

[P5, P5'] **Heß M** (München, 2005) Polarisiertes Licht: Informationsträger & spezifische Wahrnehmung. Beitrag zu den 5. Münchner Wissenschaftstagen vom 22.-25.09.2005 auf der BuGa zum übergeordneten Thema „Licht und Leben“ (2 Poster, Organisation Prof. Daumer).

[P4, P4', P4''] **Heß M**, Gässler S, Koch P (München, 2005) 3 Poster im Rahmen einer Kunstaussstellung in der ZSM zum Thema Mikroskopie.

[P3] Haszprunar G, **Heß M** (München, 2005) Arbeitsgruppe Systematische Zoologie. Vorstellung der Forschungsabteilung im Rahmen der Grundsteinlegung des Biozentrums (2. Bauabschnitt) am 08.06.05

[P2] Pascucci R, Maier B O, Wolf E, Garth V, Poppinger J, **Heß M**, Jaegel-Guedes E, Jaeger H (Vancouver, 1996) Community based observations support virostatic efficacy of d4T in advanced HIV patients. (KIS, Curatorium for Immunodeficiency, Munich, Germany) XI. International Conference on AIDS, 10.07.1996 Vancouver, Canada

[P1] **Heß M**, Holstein T (München, 1993) SEM investigations on pattern formation in *Hydra*.
Entwicklungsbiologentagung im Zoologischen Institut der LMU München.