

**Curriculum vitae** Nicolas Straube\* **ROLE IN THE PROJECT**      Project manager       Project participant **\* PERSONAL INFORMATION**

*Family name, First name:	Straube Nicolas		
*Date of birth:	31.07.1980	*Sex:	male
*Nationality:	German		

**\* HIGHER EDUCATION/OTHER TRAINING**

	Subjects/degree/	Name of institution, country
2011 (dissertation defended)	Dr. rer.nat	Faculty of Biology- Ludwig Maximilians University Munich- Germany
2006	Diploma Biology	Faculty of Biology- Ludwig Maximilians University

\* **POSITIONS** (academic, business, industry, public sector, national or international organisations)**Current Position**

	Job title/name of employer/country
2019-	Associate Professor & Curator of Ichthyology, University Museum Bergen, UiB

**Previous positions held (list)**

Year	Job title – Employer - Country
2017-2019	Postdoc, Bavarian State Collection of Zoology, Germany
2013-2017	Postdoc, Friedrich Schiller University Jena Germany
2011-2013	Postdoc, College of Charleston, USA
2010-2011	Manager, DNA Bank project, Bavarian State Collection of Zoology, Germany

**PROJECT MANAGEMENT EXPERIENCE** (if applicable)

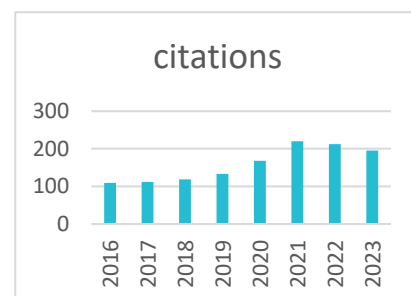
	Project/topic/role in project/funding from
2017-2019	Phylogenomics of Archival DNA/ Sequencing museum wet-collection specimens/ PI, Postdoc at SNSB-Staatliche Naturwissenschaftliche Sammlungen Bayerns/ German Research Foundation
2013-2017	Hering, Lachs und Karpfen, alte Bekannte mit unbekannter Verwandtschaft/ target capture for deep phylogeny of fishes/ Co-PI, Postdoc at Friedrich Schiller University Jena Germany/ Volkswagenstiftung, Germany
2010-2011	DNA Bank Network/ Biobanking/ local manager of DNA Bank at Bavarian State Collection of Zoology/ German Research Foundation

## EXPERIENCE FROM NATIONAL/INTERNATIONAL COLLABORATION/NETWORKING (if applicable)

	Activity or project / tasks and responsibilities / context/programme/framework of the collaboration and names of key partners (companies, institutions)
2023-2026	Understanding diversity patterns, speciation, and biogeography of shallow-water marine organisms in the Atlantic realm (MarDivA)/ mitochondrial genomics, thesis supervision/ Norwegian Research Council, project 341241/ Manuel Malaquias, University of Bergen, University Museum
2023-2026	The role of gene flow in the evolution of Antarctic icefishes/ sequencing museum specimens (types)/ Norwegian Research Council, project ES714115/ Michael Matschiner, University of Oslo, Museum of Natural History
2023-	A taxonomic revision of the lantern shark genus <i>Etmopterus</i> using integrative approaches/ supervisor/ PhD project/ Shing-Lai Ng, Department of Environmental Biology and Fisheries Science, National Taiwan Ocean University, Keelung, Taiwan
2023-	Field work/ specimen collection/ taxonomy and biology of European miniature gobies/ Ulrich K. Schliewen SNSB-Bavarian State Collection of Zoology Germany
2023-	Biobanking/ specimen collection/ re-collection of Norwegian fish species for vouchered tissue sample biobanking/ Rupert Wienerroither, Institute of Marine Research, Bergen, Norway

### Citation statistics google scholar (accessed 06.11.2023)

- 57 peer-reviewed publications
- 1507 citations
- h-index: 20
- i10 index: 30



### Selection of publications:

#### **Molecular methods:**

**Straube, N.** & Lyra, M.L. & Paijmans, J.L.A. & Preick, M. & Basler, N. & Penner, J. & Rödel, M.-O. & Westbury, M.V. & Haddad, C.F.B. & Barlow, A. & Hofreiter, M. (2021) Successful application of ancient DNA extraction and library construction protocols to museum wet collection specimens. **Molecular Ecology Resources**, 21(7), 2299–2315DOI: [10.1111/1755-0998.13433](https://doi.org/10.1111/1755-0998.13433)

Agne, S. & **Straube, N.** & Preick, M. & Hofreiter, M. (2022). Simultaneous barcode sequencing of diverse museum collection specimens using a mixed RNA bait set. **Frontiers in Ecology and Evolution**. doi: 10.3389/fevo.2022.909846

#### **Museomics**

Baer, J. & Schliewen, U. & Schedel, F. & **Straube, N.** & Roch, S. & Brinker, A. (2023). Cryptic persistence and loss of local endemism due to anthropogenic disturbance: the charr from Lake Constance. **Ecological Applications**. 33( 2): e2773. <https://doi.org/10.1002/eap.2773>

Agne, S. & Naylor, G.J.P. & Preick, M. & Yang, L. & Thiel, R. & Weigmann, S. & Paijmans, J.L.A. & Barlow, A. & Hofreiter, M. & **Straube, N.** (2022) Taxonomic Identification of Two Poorly Known Lantern Shark Species Based on Mitochondrial DNA From Wet-Collection Paratypes. **Frontiers in Ecology and Evolution**, 10, Article fevo.2022.910009DOI: [10.3389/fevo.2022.910009](https://doi.org/10.3389/fevo.2022.910009)

**Straube, N.** & Preick, M. & Naylor, G.J.P. & Hofreiter, M. (2021) Mitochondrial DNA sequencing of a wet-collection syntype demonstrates the importance of type material as genetic resource for lantern shark taxonomy (Chondrichthyes: Etmopteridae). **Royal Society Open Science**, 8(9), Article 210474DOI: [10.1098/rsos.210474](https://doi.org/10.1098/rsos.210474)

#### **Technical comment:**

Feichtinger, I. & Adnet, S. & Cuny, G. & Guinot, G. & Kriwet, J. & Neubauer, T.A. & Pollerspöck, J. & Shimada, K. & **Straube, N.** & Underwood, C. & Vullo, R. & Harzhauser, M. (2021) Comment on “An early Miocene extinction in pelagic sharks”. **Science**, 374(6573), Article abk0632DOI: [10.1126/science.abk0632](https://doi.org/10.1126/science.abk0632)

#### **Phylogenetics & Evolution**

Wang, Q. & Dizaj, L. P. & Huang, J. & Sarker, K. K. & Kevrekidis, C. & Reichenbacher, B. & Esmaeili, H. R. & **Straube, N.** & Moritz, T. & Li, C. (2022) Molecular phylogenetics of the Clupeiformes based on exon-capture data and a new classification of the order, **Molecular Phylogenetics and Evolution**, 175, 107590, <https://doi.org/10.1016/j.ympev.2022.107590>

#### **Conservation**

Villate-Moreno, M, & Cubillos-M, J.C. & Stibor, H. & Crawford, A.J. & **Straube, N.** (2022) Molecular identification and first demographic insights of sharks based on artisanal fisheries bycatch in the Pacific Coast of Colombia: implications for conservation. **PeerJ**, 10, Article e13478DOI: [10.7717/peerj.13478](https://doi.org/10.7717/peerj.13478)

Villate-Moreno, M. & Pollerspöck, J. & Kremer-Obrock, F. & **Straube, N.** (2021) Molecular analyses of confiscated shark fins reveal shortcomings of CITES implementations in Germany. **Conservation Science and Practice**, 3(6), Article e398DOI: [10.1111/csp2.398](https://doi.org/10.1111/csp2.398)

#### **Articles in preparation/ revision:**

Lopes F; Gunter N; Gillett CPDT; Montanaro G; Rossini M; Losacco F; Gimo DM; **Straube N**; Tarasov S (submitted) From museum drawer to tree: historical DNA phylogenomics clarifies the systematics of rare dung beetles (Coleoptera: Scarabaeinae) from museum collections. Submitted to **Molecular Phylogenetics and Evolution**, DOI: [10.1101/2023.10.27.564347](https://doi.org/10.1101/2023.10.27.564347) (pre-print)

Budaeva N, Agne S, Ribeiro PA, **Straube N**, Preick M, Hofreiter M (in revision) Wide-spread dispersal in a deep-sea brooding polychaete: the role of natural history collections in assessing the distribution in quill worms (Onuphidae, Annelida). Intended for submission to **Frontiers in Zoology**

#### **Reviewer activities (selection):**

eDNA, Journal of Fish Biology, Ichthyological Research, Ecology and Evolution, BMC Evolutionary Biology Journal of Morphology, Journal of Systematics & Evolution, Journal of Experimental Marine Biology and Ecology, Organism Diversity and Evolution, PeerJ, Photochemistry and Photobiology, Systematic Palaeontology.

#### **Talks (selection):**

2023: Key note at the 10<sup>th</sup> workshop of the Hydrozoan Society (UiB)

2022: Invited talk UiO seminar series

2021: Key note at the annual meeting of the ForBIO school of Biosystematics (UiO)

2018: Key note at the FishBase Symposium (Swedish Museum of Natural History, Stockholm, Sweden)

**Teaching and supervision:**

year	title
<b>2023</b>	Museomics Lab training
<b>2023</b>	Co-Supervisor Master thesis Haakon Pedersen (NTNU)
<b>2022</b>	High Throughput Sequencing – data types, data manipulation and analysis
<b>2022</b>	Co-Supervisor Master thesis Benedikt Auer (Rostock University, Germany)
<b>2022</b>	Systematics and Evolution of Marine Invertebrates (team course)
<b>2021</b>	External examiner Master thesis Iselin Walther (UiT)
<b>2021-2023</b>	Introduction to phylogenetic methods
<b>2021-2023</b>	Evolutionary Biology team lecture: Species, taxonomy, and speciation (BIO210)
<b>Since 2020</b>	Co-Supervisor PhD thesis Stefanie Agne (Potsdam University, Germany)
<b>Since 2018</b>	Co-Supervisor PhD thesis Melany Villate-Moreno (LMU Munich, Germany)

**Other relevant professional experiences:**

Year	Description - Role
<b>2022</b>	Awarded University Pedagogics certificate for completion of UiB's UPED program
<b>2020</b>	Norwegian Redlist species assessor
<b>Since 2018</b>	Co-Supervisor PhD thesis Melany Villate-Moreno (LMU Munich, Germany)
<b>Since 2018</b>	Authorised CITES expert for sharks, rays and skates (Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety - BMU-)
<b>Since 2014</b>	Co-Editor of the bibliographic database <a href="http://www.shark-references.com">www.shark-references.com</a> (curation of the database, monthly newsletter and Facebook page).
<b>2015 &amp; 2016</b>	Coaching workshop: Professionals in Science, Zentrum für Wissenschaftsmanagement, Hannover, Germany (communication, conflict management, project management and finances)
<b>ongoing</b>	Member of European Elasmobranch Society
<b>ongoing</b>	Member of German Ichthyological Society