

## BIBLIOGRAPHY

---

- Abdullah, A. and Rehbein, H. (2014). Authentication of raw and processed tuna from Indonesian markets using DNA barcoding, nuclear gene and character-based approach. European Food Research and Technology. 1-12.
- Adamski, D., Boege, K., Landry, J. F. and Sohn, J. C. (2009). Two new species of Wockia Heinemann (Lepidoptera: Urodidae) from coastal dry-forests in Western Mexico. Proceedings of the Entomological Society of Washington **111**: 166–182.
- Alcántar-Escalera, F. J., García-Varela, M., Vázquez-Domínguez, E. and Pérez-Ponce de León, G. (2013). Using DNA barcoding to link cystacanths and adults of the acanthocephalan *Polymorphus brevis* in central Mexico. Molecular Ecology Resources. **13**(6): 1116-1124.
- Alonso, H., Granadeiro, J. P., Waap, S., Xavier, J., Symondson, W. O. C., Ramos, J. A. and Catry, P. (2014). An holistic ecological analysis of the diet of Cory's shearwaters using prey morphological characters and DNA barcoding. Molecular Ecology. n/a-n/a.
- Amor, N., Farjallah, S., Merella, P., Said, K. and Ben Slimane, B. (2011). Molecular characterization of *Hysterothylacium aduncum* (Nematoda: Raphidascaridae) from different fish caught off the Tunisian coast based on nuclear ribosomal DNA sequences. Parasitology research.
- April, J., Mayden, R. L., Hanner, R. H. and Bernatchez, L. (2011). Genetic calibration of species diversity among North America's freshwater fishes. Proc Natl Acad Sci U S A. **108**(26): 10602-10607.
- Arnason, E. and Rand, D. (1992). Heteroplasmy of short tandem repeats in mitochondrial DNA of Atlantic cod, *Gadus morhua*. Genetics. **132**(1): 211-220.
- Arnot, D. E., Roper, C. and Bayoumi, R. A. (1993). Digital codes from hypervariable tandemly repeated DNA sequences in the< i> Plasmodium falciparum</i> circumsporozoite gene can genetically barcode isolates. Molecular and biochemical parasitology. **61**(1): 15-24.
- Asgharian, H., Sahafi, H. H., Ardalan, A. A., Shekarriz, S. and Elahi, E. (2011). Cytochrome c oxidase subunit 1 barcode data of fish of the Nayband National Park in the Persian Gulf and analysis using meta-data flag several cryptic species. Molecular ecology resources. **11**(3): 461-472.
- Attardi, G. (1985). Animal mitochondrial DNA: an extreme example of genetic economy. International review of cytology. **93**: 93-145.
- Avise, J. C. (1975). Systematic value of electrophoretic data. Systematic Zoology **23** 465–481.
- Avise, J. C. (1994). Molecular Markers, Natural History and Evolution. New York, Chapman & Hall.
- Ayappan S and Birdar S R (2004). Enhancing Global Competition, Survey of Indian Agriculture, The Hindu.

- Badek, A., Dabert, M., Mironov, S. V. and Dabert, J. (2008). A new species of the genus *Proctophyllodes* (Analgoidea: Proctophyllodidae) from cetti's warbler *Cettia cetti* (Passeriformes:Sylviidae) with DNA barcode data. *Annales Zoologici* **58**: 397-402.
- Bailey, R. M. (1960). Pisces (zoology). McGraw-Hill Encyclopedia of Science and Technology. New York, McGraw-Hill. **10**: 242-243.
- Baldwin, C. C. and Johnson, G. D. (2014). Connectivity across the Caribbean Sea: DNA barcoding and morphology unite an enigmatic fish larva from the Florida straits with a new species of sea bass from deep reefs off Curacao. *PLoS One*. **9**(5): e97661.
- Ball, S. L., Hebert, P. D. N., Burian, S. K. and Webb, J. M. (2005). Biological identifications of mayflies (Ephemeroptera) using DNA barcodes. *Journal of the North American Benthological Society*. **24**(3): 508-524.
- Ballard, J. and Kreitman, M. (1994). Unraveling selection in the mitochondrial genome of *Drosophila*. *Genetics*. **138**(3): 757-772.
- Bartlett, S. E. and Davidson, W. S. (1991). Identification of *Thunnus* tuna species by the polymerase chain reaction and direct sequence analysis of their mitochondrial cytochrome b genes. *Canadian Journal of Fisheries and Aquatic Sciences*. **48**: 309–317.
- Bartlett, S. E. and Davidson, W. S. (1992). FINS (forensically important nucleotide sequences): a procedure for identifying the animal origin of biological specimens. *Biotechniques*. **12**: 408–411.
- Becker, S., Hanner, R. and Steinke, D. (2011). Five years of FISH-BOL: brief status report. *Mitochondrial DNA*. **22 Suppl 1**: 3-9.
- Bell, D., Long, D. G., Forrest, A. D., Hollingsworth, M. L., Blom, H. H. and Hollingsworth, P. M. (2011). DNA barcoding of European Herbertus (Marchantiopsida, Herbertaceae) and the discovery and description of a new species. *Molecular ecology resources*.
- Bennett, C. E., Wilson, B. S. and Desalle, R. (2011). DNA barcoding of an invasive mammal species, the small Indian mongoose (*Herpestes javanicus*; E. Geoffroy Saint-Hillaire 1818) in the Caribbean and Hawaiian Islands. *Mitochondrial DNA*. **22**(1-2): 12-18.
- Benson, D. A., Cavanaugh, M., Clark, K., Karsch-Mizrachi, I., Lipman, D. J., Ostell, J. and Sayers, E. W. (2013). GenBank. *Nucleic Acids Res.* **41**(Database issue): D36-42.
- Benton, M. J. (1998). The quality of the fossil record of the vertebrates. The adequacy of the fossil record. 269-303.
- Benziger, A., Philip, S., Raghavan, R., Anvar Ali, P. H., Sukumaran, M., Tharian, J. C., Dahanukar, N., Baby, F., Peter, R., Devi, K. R., Radhakrishnan, K. V., Haniffa, M. A., Britz, R. and Antunes, A. (2011). Unraveling a 146 years old taxonomic puzzle: validation of Malabar snakehead, species-status and its relevance for channid systematics and evolution. *PLoS One*. **6**(6): e21272.

- Bergmann, T., Hadrys, H., Breves, G. and Schierwater, B. (2009). Character-based DNA barcoding: a superior tool for species classification. *Berl Munch Tierarztl Wochenschr.* **122**(11-12): 446-450.
- Bergmann, T., Rach, J., Damm, S., DeSalle, R., Schierwater, B. and Hadrys, H. (2013). The potential of distance-based thresholds and character-based DNA barcoding for defining problematic taxonomic entities by CO1 and ND1. *Molecular Ecology Resources.* **13**(6): 1069-1081.
- Berra, T. M. (1997). Some 20th century fish discoveries. *Environmental Biology of Fishes.* **50**(1): 1-12.
- Berra, T. M. (2001). *Freshwater Fish Distribution.* Elsevier Science.
- Besansky, N. J., Severson, D. W. and Ferdig, M. T. DNA barcoding of parasites and invertebrate disease vectors: what you don't know can hurt you. *Trends in Parasitology.* **19**(12): 545-546.
- Bhattacharjee, M. J. and Ghosh, S. K. (2014). Design of mini-barcode for catfishes for assessment of archival biodiversity. *Mol Ecol Resour.* **14**(3): 469-477.
- Bhattacharjee, M. J., Laskar, B. A., Dhar, B. and Ghosh, S. K. (2012). Identification and Re-Evaluation of Freshwater Catfishes through DNA Barcoding. *PLoS One.* **7**(11): e49950.
- Bitanyi, S., Bjornstad, G., Ernest, E. M., Nesje, M., Kusiluka, L. J., Keyyu, J. D., Mdegela, R. H. and Roed, K. H. (2011). Species identification of Tanzanian antelopes using DNA barcoding. *Molecular ecology resources.* **11**(3): 442-449.
- Blaxter, M. (2003). Counting angels with DNA. *Nature* **421**: 122–124.
- Blaxter, M., Elsworth, B. and Daub, J. (2004). DNA taxonomy of a neglected animal phylum: an unexpected diversity of tardigrades. *Proceedings of the Royal Society of London. Series B: Biological Sciences.* **271**(Suppl 4): S189-S192.
- Block, B. A., Finnerty, J. R., Stewart, A. F. and Kidd, J. (1993). Evolution of endothermy in fish: mapping physiological traits on a molecular phylogeny. *Science.* **260**: 210-210.
- Borisenko, A. V., Sones, J. E. and Hebert, P. D. (2009). The front-end logistics of DNA barcoding: challenges and prospects. *Molecular ecology resources.* **9 Suppl s1**: 27-34.
- Brodin, Y., Ejdung, G., Strandberg, J. and Lyrholm, T. (2013). Improving environmental and biodiversity monitoring in the Baltic Sea using DNA barcoding of Chironomidae (Diptera). *Molecular Ecology Resources.* **13**(6): 996-1004.
- Brown, J. W., Miller, S. E. and Horak, M. (2003). Studies on New Guinea moths. 2. Description of a new species of Xenothictis Meyrick (Lepidoptera: Tortricidae: Archipini). *Proceedings of the Entomological Society of Washington* **105**: 1043–1050.
- Brown, S. D. J., Collins, R. A., Boyer, S., Lefort, M.-C., Malumbres-Olarte, J., Vink, C. J. and Cruickshank, R. H. (2012). Spider: An R package for the analysis of species identity and evolution, with particular reference to DNA barcoding. *Molecular Ecology Resources.* **12**(3): 562-565.

- Brown, W. M., Prager, E. M., Wang, A. and Wilson, A. C. (1982). Mitochondrial DNA sequences of primates: tempo and mode of evolution. *J Mol Evol.* **18**(4): 225-239.
- Bucklin, A., Steinke, D. and Blanco-Bercial, L. (2011). DNA barcoding of marine metazoa. *Annual review of marine science.* **3**: 471-508.
- Burns, J. M., Janzen, D. H., Hajibabaei, M., Hallwachs, W. and Hebert, P. D. N. (2007). DNA barcodes of closely related (but morphologically and ecologically distinct) species of skipper butterflies (Hesperiidae) can differ by only one to three nucleotides. *Journal of the Lepidopterists Society* **61**(138–153).
- Busse, H. J., Denner, E. B. M. and Lubitz, W. (1996). Classification and identification of bacteria: current approaches to an old problem. Overview of methods used in bacterial systematics. *Journal of Biotechnology* **47**: 3–38.
- Byrkjedal, I., Rees, D. J. and Willassen, E. (2007). Lumping lump suckers: molecular and morphological insights into the taxonomic status of *Eumicrotremus spinosus* (Fabricius, 1776) and *Eumicrotremus eggvinii* Koefoed, 1956 (Teleostei: Cyclopteridae). *Journal of Fish Biology.* **71**: 111-131.
- CAMP <http://www.zooreach.org/conservation/CAMP/CAMP-FreshFish.html>
- Carr, S. M. and Marshall, H. D. (1991). Detection of Intraspecific DNA Sequence Variation in the Mitochondrial Cytochrome b Gene of Atlantic Cod (*Gadus morhua*) by the Polymerase Chain Reaction. *Canadian Journal of Fisheries and Aquatic Sciences.* **48**(1): 48-52.
- Carvalho, D. C., Neto, D. A., Brasil, B. S. and Oliveira, D. A. (2011). DNA barcoding unveils a high rate of mislabeling in a commercial freshwater catfish from Brazil. *Mitochondrial DNA.*
- Clare, E. L., Lim, B. K., Fenton, M. B. and Hebert, P. D. (2011). Neotropical bats: estimating species diversity with DNA barcodes. *PloS one.* **6**(7): e22648.
- Cohen, D. M. (1970). How many recent fishes are there? *Proceedings of the California Academy of Sciences. Ser.* **4**(38): 341-345.
- Cohen, N. J., Deeds, J. R., Wong, E. S. and Hanner, R. H. (2009). Public Health Response to Puffer Fish (Tetrodotoxin) Poisoning from Mislabeled Product. *Journal of Food Protection.* **72**: 810-817.
- Cornish-Bowden, A. (1985). Nomenclature for incompletely specified bases in nucleic acid sequences: recommendations 1984. *Nucleic acids research.* **13**(9): 3021.
- Costa, F. O. and Carvalho, G. R. (2010). New insights into molecular evolution: prospects from the Barcode of Life Initiative (BOLI). *Theory in biosciences = Theorie in den Biowissenschaften.* **129**(2-3): 149-157.
- Costa, F. O., Landi, M., Martins, R., Costa, M. H., Costa, M. E., Carneiro, M., Alves, M. J., Steinke, D. and Carvalho, G. R. (2012). A ranking system for reference libraries of DNA barcodes: application to marine fish species from Portugal. *PLoS One.* **7**(4): e35858.
- Crawford, A. J., Cruz, C., Griffith, E., Ross, H., Ibáñez, R., Lips, K. R., Driskell, A. C., Bermingham, E. and Crump, P. (2013). DNA barcoding applied to ex situ

- tropical amphibian conservation programme reveals cryptic diversity in captive populations. *Molecular Ecology Resources*. **13**(6): 1005-1018.
- Cutarelli, A., Amoroso, M. G., De Roma, A., Girardi, S., Galiero, G., Guarino, A. and Corrado, F. (2014). Italian market fish species identification and commercial frauds revealing by DNA sequencing. *Food Control*. **37**(0): 46-50.
- Dabert J, E. R., DabertM (2008). *Glaucalges tytonis* sp. n. (Analgoidea, Xolalgidae) from the barn owl *Tyto alba* (Strigiformes, Tytonidae): compiling morphology with DNA barcode data for taxon descriptions in mites (Acari). *Zootaxa* **1719**: 41–52.
- Dabert, J., Natress, B. and Dabert, M. (2008b). *Xoloptes blaszaki* sp.nov. (Pterolichoidea: Pterolichidae) – a new species of feather mite from *Alectoris rufa* (Galliformes: Phasianidae) from Europe with DNA barcode data. *Annales Zoologici*. **58**: 391–396.
- Darshan, A., Anganthoibi, N. and Vishwanath, W. (2010). Redescription of the striped catfish *Mystus carcio* (Hamilton) (Siluriformes: Bagridae). *Zootaxa* **2475**: 48–54.
- Dawnay, N. and Ogden, R. (2007). Validation of the barcoding gene COI for use in forensic genetic species identification. *Forensic Science International*. **173**(1): 1–6.
- Day, F. (1889a). Fishes. The Fauna of British India, including Ceylon and Burma. W. T. Blanford. London, Taylor & Francis. **1**: 1-548.
- Day, F. (1889b). Fishes. The Fauna of British India, including Ceylon and Burma. W. T. Blanford. London, Taylor & Francis. **2**: 1-509.
- Dayrat, B. (2005). Towards integrative taxonomy. *Biological Journal of the Linnean Society* **85**: 407–415.
- de Oliveira Ribeiro, A., Caires, R. A., Mariguela, T. C., Pereira, L. H., Hanner, R. and Oliveira, C. (2012). DNA barcodes identify marine fishes of São Paulo State, Brazil. *Mol Ecol Resour*. **12**(6): 1012-1020.
- DeSalle, R., Egan, M. G. and Siddall, M. (2005). The unholy trinity: taxonomy, species delimitation and DNA barcoding. *Philosophical Transactions of the Royal Society of London. Series B* **360**: 1905–1916.
- Dey, S. C. (1973). Studies on the Distribution and Taxonomy of the Ichthyofauna of the Hill Streams of Kamrup-Khasi-Garo Regions of Assam with Special Reference to the Functional Morphology of some Rheophilic Fishes. D.Sc., University of Calcutta, India.,
- Di Pinto, A., Di Pinto, P., Terio, V., Bozzo, G., Bonerba, E., Ceci, E. and Tantillo, G. (2013). DNA barcoding for detecting market substitution in salted cod fillets and battered cod chunks. *Food Chemistry*. **141**(3): 1757-1762.
- Dinca, V., Zakharov, E. V., Hebert, P. D. and Vila, R. (2011). Complete DNA barcode reference library for a country's butterfly fauna reveals high performance for temperate Europe. *Proc Biol Sci*. **278**(1704): 347-355.
- Dowling, T. (1996). Nucleic acids III. Analysis of fragments and restriction sites. *Molecular systematics*. 249-320.

- Ekrem, T., Willlassen, E. and Stur, E. (2007). A comprehensive DNA sequence library is essential for identification with DNA barcodes. *Molecular phylogenetics and evolution*. **43**(2): 530-542.
- Eschmeyer, W. N. (2014). Catalog Of Fishes: Genera, Species, References.
- Eschmeyer, W. N., Fricke, R. and Eds (2012) Catalog of Fishes electronic version.
- Fan, J. a., Gu, H., Chen, S., Mo, B., Wen, Y., He, W., Liu, W. and Zeng, X. (2009). Species Identification of 36 Kinds of Fruit Flies Based on Minimalist-barcode Chinese Journal of Applied & Environmental Biology. **2**: 013.
- Fan, L., Hui, J. H. L., Yu, Z. G. and Chu, K. H. (2014). VIP Barcoding: composition vector-based software for rapid species identification based on DNA barcoding. *Molecular Ecology Resources*. **14**(4): 871-881.
- Ferraris, C. J. (2007). Checklist of Catfishes, Recent and Fossil (Osteichthyes: Siluriformes), and Catalogue of Siluriform Primary Types., Magnolia Press.
- Ferraris, C. J., Jr. (1996). Denticetopsis, a new genus of South American whale catfish (Siluriformes: Cetopsidae, Cetopsinae), with two new species. . Proceedings of the California Academy of Sciences **49**(6): 161-170.
- Ferraris, C. J., Jr., M. A. McGrouther; K. L. Parkinson (2000). A critical review of the types and putative types of southern Asian marine and freshwater fish species in the Australian Museum named by Francis Day. *Records of the Australian Museum*. **52**: 289-306.
- Fišer Pečnikar, Ž. and Buzan, E. (2014). 20 years since the introduction of DNA barcoding: from theory to application. *Journal of Applied Genetics*. **55**(1): 43-52.
- Folmer, O., Black, M., Hoeh, W., Lutz, R. and Vrijenhoek, R. (1994). DNA primers for amplification of mitochondrial cytochrome c oxidase subunit I from diverse metazoan invertebrates. *Molecular Marine Biology and Biotechnology*. **3**: 294–299.
- Frezzal, L. and Leblois, R. (2008). Four years of DNA barcoding: current advances and prospects. *Infect Genet Evol*. **8**(5): 727-736.
- Froese, R. and Pauly, D., Eds (2013) FishBase. World Wide Web electronic publication.
- Galimberti, A., De Mattia, F., Losa, A., Bruni, I., Federici, S., Casiraghi, M., Martellos, S. and Labra, M. (2013). DNA barcoding as a new tool for food traceability. *Food Research International*. **50**(1): 55-63.
- Giangrande, A. (2003). Biodiversity, conservation, and the ‘Taxonomic impediment’. *Aquatic Conservation: Marine and Freshwater Ecosystems*. **13**(5): 451-459.
- Gilbert, C. R. (1976). Composition and derivation of the North American freshwater fish fauna. *Florida Scientist*. **39**: 104-111.
- Goldstein, P. Z. and Desalle, R. (2003). Calibrating phylogenetic species formation in a threatened insect using DNA from historical specimens. *Mol Ecol*. **12**(7): 1993-1998.

- González-Varo, J. P., Arroyo, J. M. and Jordano, P. (2014). Who dispersed the seeds? The use of DNA barcoding in frugivory and seed dispersal studies. *Methods in Ecology and Evolution*. n/a-n/a.
- Graybeal, A. (1993). The phylogenetic utility of cytochrome b: lessons from bufonid frogs. *Molecular Phylogenetics and Evolution*. **2**(3): 256-269.
- Graybeal, A. (1994). Evaluating the phylogenetic utility of genes: a search for genes informative about deep divergences among vertebrates. *Systematic Biology*. **43**(2): 174-193.
- Green, M. R. a. S., J. (2012). *Molecular Cloning : Three-Volume Set*. Cold Spring Harbor Laboratory Press.
- Günther, A. (1864). Catalogue of the Physostomi, Containing the Families Siluridae, Characinae, Haplochitonidae, Sternopychidae, Scopelidae, Stomatiidae in the Collection of the British Museum. order of the Trustees.
- Hajibabaei, M. (2012). The golden age of DNA metasystematics. *Trends Genet*. **28**(11): 535-537.
- Hajibabaei, M., Janzen, D. H., Burns, J. M., Hallwachs, W. and Hebert, P. D. (2006a). DNA barcodes distinguish species of tropical Lepidoptera. *Proc Natl Acad Sci U S A*. **103**(4): 968-971.
- Hajibabaei, M. and McKenna, C. (2012). DNA mini-barcodes. *Methods Mol Biol*. **858**: 339-353.
- Hajibabaei, M., Singer, G. A., Hebert, P. D. and Hickey, D. A. (2007). DNA barcoding: how it complements taxonomy, molecular phylogenetics and population genetics. *Trends in genetics : TIG*. **23**(4): 167-172.
- Hajibabaei, M., Singer, G. A. and Hickey, D. A. (2006b). Benchmarking DNA barcodes: An assessment using available primate sequences. *Genome*. **49**(7): 851-854.
- Hajibabaei, M., Smith, M., Janzen, D. H., Rodriguez, J. J., Whitfield, J. B. and Hebert, P. D. (2006c). A minimalist barcode can identify a specimen whose DNA is degraded. *Molecular Ecology Notes*. **6**(4): 959-964.
- Hamilton, B. (1822). Account of the Fishes found in the River Ganges and its tributaries. Edinburgh (UK). 405pp.
- Hanner, R., Corthals, A. & Dessauer, H. C. (2005). Salvage of genetically valuable tissues following a freezer failure. *Molecular Phylogenetics and Evolution* **34**: 452-455.
- Hasegawa, M. and Kishino, H. (1989). Heterogeneity of tempo and mode of mitochondrial DNA evolution among mammalian orders. *Jpn J Genet*. **64**(4): 243-258.
- Hebert, P. D., Cywinski, A., Ball, S. L. and deWaard, J. R. (2003a). Biological identifications through DNA barcodes. *Proceedings. Biological sciences / The Royal Society*. **270**(1512): 313-321.
- Hebert, P. D., Dewaard, J. R., Zakharov, E. V., Prosser, S. W., Sones, J. E., McKeown, J. T., Mantle, B. and La Salle, J. (2013). A DNA 'barcode blitz': rapid

- digitization and sequencing of a natural history collection. *PLoS One.* **8**(7): e68535.
- Hebert, P. D. and Gregory, T. R. (2005). The promise of DNA barcoding for taxonomy. *Syst Biol.* **54**(5): 852-859.
- Hebert, P. D. and Humble, L. M. (2011). A comprehensive DNA barcode library for the looper moths (Lepidoptera: Geometridae) of British Columbia, Canada. *PLoS one.* **6**(3): e18290.
- Hebert, P. D., Penton, E. H., Burns, J. M., Janzen, D. H. and Hallwachs, W. (2004a). Ten species in one: DNA barcoding reveals cryptic species in the neotropical skipper butterfly *Astraptes fulgerator*. *Proc Natl Acad Sci U S A.* **101**(41): 14812-14817.
- Hebert, P. D., Stoeckle, M. Y., Zemlak, T. S. and Francis, C. M. (2004b). Identification of Birds through DNA Barcodes. *PLoS biology.* **2**(10): e312.
- Hebert, P. D. N., Ratnasingham, S. and de Waard, J. R. (2003b). Barcoding animal life: cytochrome c oxidase subunit 1 divergences among closely related species. *Proceedings of the Royal Society of London. Series B* **270** S96–S99.
- Hellberg, R., Kawalek, M., Van, K., Shen, Y. and Williams-Hill, D. (2014). Comparison of DNA Extraction and PCR Setup Methods for Use in High-Throughput DNA Barcoding of Fish Species. *Food Analytical Methods.* 1-10.
- Hernandez-Davila, A., Vargas, J. A., Martinez-Mendez, N., Lim, B. K., Engstrom, M. D. and Ortega, J. (2012). DNA barcoding and genetic diversity of phyllostomid bats from the Yucatan Peninsula with comparisons to Central America. *Mol Ecol Resour.* **12**(4): 590-597.
- Hoagland, K. E. (1996). The Taxonomic Impediment and the Conventionon Biodiversity. *ASC News.* **24**: 61–62, 66–67.
- Hogg, I. D. and Hebert, P. D. N. (2004). Biological identification of springtails (Hexapoda: Collembola) from the Canadian Arctic, using mitochondrial DNA barcodes. *Canadian Journal of Zoology.* **82**(5): 749-754.
- Hubert, N., Hanner, R., Holm, E., Mandrak, N. E., Taylor, E., Burridge, M., Watkinson, D., Dumont, P., Curry, A., Bentzen, P., Zhang, J., April, J. and Bernatchez, L. (2008). Identifying Canadian Freshwater Fishes through DNA Barcodes. *PLoS One.* **3**(6): e2490.
- Huijsmans, C. J., Damen, J., van der Linden, J. C., Savelkoul, P. H. and Hermans, M. H. (2010). Comparative analysis of four methods to extract DNA from paraffin-embedded tissues: effect on downstream molecular applications. *BMC research notes.* **3**(1): 239.
- Hutter, C. M. and Rand, D. M. (1995). Competition between mitochondrial haplotypes in distinct nuclear genetic environments: *Drosophila pseudoobscura* vs. *D. persimilis*. *Genetics.* **140**(2): 537-548.
- Isabelle, C., SJ, G., Jr, M. J., JL, A. and D, S. (2013). Diet richness of invasive Indo-Pacific lionfish revealed by DNA barcoding. *Marine Ecology Progress Series.* **472**: 249-256.

- Jackson, R. B., Carpenter, S. R. and Dahm, C. N. (2001). Water in a changing world. *Ecological Applications*. **11**: 1027–1045.
- Janzen, D. H., Hallwachs, W., Burns, J. M., Hajibabaei, M., Bertrand, C. and Hebert, P. D. (2011). Reading the complex skipper butterfly fauna of one tropical place. *PloS one*. **6**(8): e19874.
- Jayaram, K. C. (1981). The freshwater fishes of India, Pakistan, Bangladesh, Burma, and Sri Lanka: handbook. The Survey.
- Jayaram, K. C. (1999). The freshwater fishes of the Indian region. Narendra Pub. House.
- JK, V. A. N. H., Breman, F. C., Virgilio, M. and M, D. E. M. (2010). Recovering full DNA barcodes from natural history collections of Tephritid fruitflies (Tephritidae, Diptera) using mini barcodes. *Mol Ecol Resour*. **10**(3): 459–465.
- Jo, H., Gim, J.-A., Jeong, K.-S., Kim, H.-S. and Joo, G.-J. (2014). Application of DNA barcoding for identification of freshwater carnivorous fish diets: Is number of prey items dependent on size class for Micropterus salmoides? *Ecology and Evolution*. **4**(2): 219–229.
- Joly, S., Davies, T. J., Archambault, A., Bruneau, A., Derry, A., Kembel, S. W., Peres-Neto, P., Vamosi, J. and Wheeler, T. A. (2014). Ecology in the age of DNA barcoding: the resource, the promise and the challenges ahead. *Molecular Ecology Resources*. **14**(2): 221–232.
- Jones, J. C., Fan, S., Franchini, P., Schartl, M. and Meyer, A. (2013). The evolutionary history of Xiphophorus fish and their sexually selected sword: a genome-wide approach using restriction site-associated DNA sequencing. *Molecular Ecology*. **22**(11): 2986–3001.
- Kadarusman, Hubert, N., Hadiaty, R. K., Sudarto and Paradis, E. (2012). Cryptic Diversity in Indo-Australian Rainbowfishes Revealed by DNA Barcoding: Implications for Conservation in a Biodiversity Hotspot Candidate. *PLoS ONE* **7**(7)(e40627).
- Katoh, K. and Standley, D. M. (2013). MAFFT multiple sequence alignment software version 7: improvements in performance and usability. *Molecular biology and evolution*. **30**(4): 772–780.
- Keskin, E. (2014). Detection of invasive freshwater fish species using environmental DNA survey. *Biochemical Systematics and Ecology*. **56**(0): 68–74.
- Keskin, E. and Atar, H. H. (2013). DNA barcoding commercially important fish species of Turkey. *Molecular Ecology Resources*. **13**(5): 788–797.
- Khedkar, G. D., Jamdade, R., Naik, S., David, L. and Haymer, D. (2014). DNA Barcodes for the FIshes of the Narmada, One of India's Longest Rivers. *PLoS One*. **9**(7): e101460.
- Kimura, M. (1980). A simple method for estimating evolutionary rates of base substitutions through comparative studies of nucleotide sequences. *Journal of Molecular Evolution*. **16**: 111–120.
- Ko, H. L., Wang, Y. T., Chiu, T. S., Lee, M. A., Leu, M. Y., Chang, K. Z., Chen, W. Y. and Shao, K. T. (2013). Evaluating the accuracy of morphological

- identification of larval fishes by applying DNA barcoding. PLoS One. **8**(1): e53451.
- Kocher, T. D. and Stepien, C. A. (1997). Molecular Systematics of Fishes. Elsevier Science.
- Kocher, T. D., Thomas, W. K., Meyer, A., Edwards, S. V., Pääbo, S., Villablanca, F. X. and Wilson, A. C. (1989). Dynamics of mitochondrial DNA evolution in animals: amplification and sequencing with conserved primers. Proceedings of the National Academy of Sciences. **86**(16): 6196-6200.
- Koski, L. B. and Golding, G. B. (2001). The closest BLAST hit is often not the nearest neighbor. J Mol Evol. **52**(6): 540-542.
- Kottelat, M. (2013). The fishes of the inland waters of southeast Asia: a catalogue and core bibliography of the fishes known to occur in freshwaters, mangroves and estuaries. The Raffles Bulletin of Zoology 1-663.
- Kottelat, M. and Lim, K. K. P. (1995). Freshwater fishes of Sarawak and Brunei Darussalam: a preliminary annotated checklist. Sarawak Museum Journal **48**: 227-258.
- Kumar, S. (1996). Patterns of nucleotide substitution in mitochondrial protein coding genes of vertebrates. Genetics. **143**(1): 537-548.
- Kumar, S. and Gadagkar, S. R. (2000). Efficiency of the neighbor-joining method in reconstructing deep and shallow evolutionary relationships in large phylogenies. J Mol Evol. **51**(6): 544-553.
- Kumar, S., Tamura, K., Jacobsen, I. B. & Nei, M. (2001). MEGA2: molecular evolutionary genetics analysis software. Tempe, AZ: Arizona State University.
- Kurtzman, C. P. (1994). Molecular taxonomy of the yeasts. Yeast. **10**: 1727-1740.
- Lakra, W., Goswami, M. and Gopalakrishnan, A. (2009). Molecular identification and phylogenetic relationships of seven Indian Sciaenids (Pisces: Perciformes, Sciaenidae) based on 16S rRNA and cytochrome c oxidase subunit I mitochondrial genes. Molecular Biology Reports. **36**(5): 831-839.
- Lakra, W. S., Verma, M. S., Goswami, M., Lal, K. K., Mohindra, V., Punia, P., Gopalakrishnan, A., Singh, K. V., Ward, R. D. and Hebert, P. (2011). DNA barcoding Indian marine fishes. Mol Ecol Resour. **11**(1): 60-71.
- Lambert, D. M., Baker, A., Huynen, L., Haddrath, O., Hebert, P. D. and Millar, C. D. (2005). Is a large-scale DNA-based inventory of ancient life possible? The Journal of heredity. **96**(3): 279-284.
- Lara, A., Rodríguez, R., Casane, D., Côté, G., Bernatchez, L. and García-Machado, E. (2010). DNA barcoding of Cuban freshwater fishes: evidence for cryptic species and taxonomic conflicts. Molecular Ecology Resources. **10**(3): 421-430.
- Laskar, B. A., Bhattacharjee, M. J., Dhar, B., Mahadani, P., Kundu, S. and Ghosh, S. K. (2013). The species dilemma of Northeast Indian Mahseer (Actinopterygii: Cyprinidae): DNA barcoding in clarifying the riddle. PLoS One. **8**(1): e53704.
- Leavitt, S., Esslinger, T., Hansen, E., Divakar, P., Crespo, A., Loomis, B. and Lumbsch, H. T. (2014). DNA barcoding of brown Parmeliae (Parmeliaceae)

- species: a molecular approach for accurate specimen identification, emphasizing species in Greenland. *Organisms Diversity & Evolution*. **14**(1): 11-20.
- Lee, W.-J., Conroy, J., Howell, W. H. and Kocher, T. D. (1995). Structure and evolution of teleost mitochondrial control regions. *Journal of Molecular Evolution*. **41**(1): 54-66.
- Lévéque, C., Oberdorff, T., Paugy, D., Stiassny, M. L. J. and Tedesco, P. A. (2008). Global diversity of fish (Pisces) in freshwater. *Freshwater Animal Diversity Assessment*. E. V. Balian, C. Lévéque, H. Segers and K. Martens, Springer Netherlands. **198**: 545-567.
- Lijtmaer, D. A., Kerr, K. C., Barreira, A. S., Hebert, P. D. and Tubaro, P. L. (2011). DNA barcode libraries provide insight into continental patterns of avian diversification. *PLoS One*. **6**(7): e20744.
- Lin, C. P. and Danforth, B. N. (2004). How do insect nuclear and mitochondrial gene substitution patterns differ? Insights from Bayesian analyses of combined datasets. *Mol Phylogenet Evol*. **30**(3): 686-702.
- Lipscomb, D., Platnick, N. and Wheeler, Q. (2003). The intellectual content of taxonomy: a comment on DNA taxonomy. *Trends in Ecology and Evolution*. **18**: 65-66.
- Lowenstein, J. H., Burger, J., Jeitner, C. W., Amato, G., Kolokotronis, S.-O. and Gochfeld, M. (2010). DNA barcodes reveal species-specific mercury levels in tuna sushi that pose a health risk to consumers. *Biology letters*. rsbl20100156.
- Lundberg, G., Kottelat, M., Smith, G. R., Stiassny, M. L. J. and Gill, A. C. (2000). So many fishes, so little time : an overview of recent ichthyological discovery in continental waters. *Annals of the Missouri Botanical Gardens* **87**: 26–62.
- Maas, A. E., Blanco-Bercial, L. and Lawson, G. L. (2013). Reexamination of the species assignment of Diacavolinia pteropods using DNA barcoding. *PLoS One*. **8**(1): e53889.
- Mabragana, E., Diaz de Astarloa, J. M., Hanner, R., Zhang, J. and Gonzalez Castro, M. (2011). DNA barcoding identifies Argentine fishes from marine and brackish waters. *PLoS One*. **6**(12): e28655.
- Malimqvist, B. and Rundle, S. (2002). Threats to the running water ecosystems of the world. *Environmental Conservation* **29**: 134–153.
- Maralit, B. A., Aguilera, R. D., Ventolero, M. F. H., Perez, S. K. L., Willette, D. A. and Santos, M. D. (2013). Detection of mislabeled commercial fishery by-products in the Philippines using DNA barcodes and its implications to food traceability and safety. *Food Control*. **33**(1): 119-125.
- Marshall, N. B. (1965). *The life of fishes*. London, Weidenfeld and Nicolson.
- Mason, V. C., Li, G., Helgen, K. M. and Murphy, W. J. (2011). Efficient cross-species capture hybridization and next-generation sequencing of mitochondrial genomes from noninvasively sampled museum specimens. *Genome research*. **21**(10): 1695-1704.
- Mayden, R. L., Chen, W. J., Bart, H. L., Doosey, M. H., Simons, A. M., Tang, K. L., Wood, R. M., Agnew, M. K., Yang, L., Hirt, M. V., Clements, M. D., Saitoh, K.,

- Sado, T., Miya, M. and Nishida, M. (2009). Reconstructing the phylogenetic relationships of the earth's most diverse clade of freshwater fishes--order Cypriniformes (Actinopterygii: Ostariophysi): a case study using multiple nuclear loci and the mitochondrial genome. *Mol Phylogenet Evol.* **51**(3): 500-514.
- McFadden, C. S., Reynolds, A. M. and Janes, M. P. (2014). DNA barcoding of xeniid soft corals (Octocorallia: Alcyonacea: Xeniidae) from Indonesia: species richness and phylogenetic relationships. *Systematics and Biodiversity.* **12**(2): 247-257.
- McGowin, A. E., Truong, T. M., Corbett, A. M., Bagley, D. A., Ehrhart, L. M., Bresette, M. J., Weege, S. T. and Clark, D. (2011). Genetic barcoding of marine leeches (*Ozobranchus* spp.) from Florida sea turtles and their divergence in host specificity. *Molecular ecology resources.* **11**(2): 271-278.
- McWilliam, H., Li, W., Uludag, M., Squizzato, S., Park, Y. M., Buso, N., Cowley, A. P. and Lopez, R. (2013). Analysis Tool Web Services from the EMBL-EBI. *Nucleic Acids Res.* **41**(Web Server issue): W597-600.
- Meier, R., Shiyang, K., Vaidya, G. and Ng, P. K. (2006). DNA barcoding and taxonomy in Diptera: a tale of high intraspecific variability and low identification success. *Systematic biology.* **55**(5): 715-728.
- Meier, R., Zhang, G. and Ali, F. (2008). The use of mean instead of smallest interspecific distances exaggerates the size of the “barcoding gap” and leads to misidentification. *Systematic Biology.* **57**(5): 809-813.
- Meiklejohn, K. A., Wallman, J. F. and Dowton, M. (2011). DNA-based identification of forensically important Australian Sarcophagidae (Diptera). *International journal of legal medicine.* **125**(1): 27-32.
- Mendonca, A., Cunha, A. and Chakrabarti, R. (2012). *Natural Resources, Sustainability and Humanity: A Comprehensive View.* Springer.
- Menon, A. G. K. (1964). Monograph of the Cyprinid fishes of the genus Garra Hamilton. Government of India.
- Menon, A. G. K. (1974). A Check-list of Fishes of the Himalayan and the Indo-Gangetic Plains. Inland Fisheries Society of India.
- Menon, A. G. K. (1977). A Systematic Monograph of the Tongue Soles of the Genus *Cynoglossus* Hamilton-Buchanan (Pisces, Cynoglossidae). Smithsonian Institution Press.
- Menon, A. G. K. (1999). Check list - Fresh water fishes of India. Records of the Zoological Survey of India. Miscellaneous Publication. **175**( i-xxviii): 1-366.
- Meusnier, I., Singer, G. A., Landry, J. F., Hickey, D. A., Hebert, P. D. and Hajibabaei, M. (2008). A universal DNA mini-barcode for biodiversity analysis. *BMC Genomics.* **9**: 214.
- Meyer, A. (1994). Shortcomings of the cytochrome*b* gene as a molecular marker. *Trends in Ecology & Evolution.* **9**(8): 278-280.
- Meyer, A., Kocher, T. D., Basasibwaki, P. and Wilson, A. C. (1990). Monophyletic origin of Lake Victoria cichlid fishes suggested by mitochondrial DNA sequences.

- Min, X. J. and Hickey, D. A. (2007). DNA Barcodes Provide a Quick Preview of Mitochondrial Genome Composition. . PLoS ONE **2**(3): e325.
- Mitrofanov, V. G., Sorokina, S. and Andrianov, B. V. (2002). [Variation of the mitochondrial genome in the evolution of *Drosophila*]. Genetika. **38**(8): 1063-1077.
- Murphy, R. W., Crawford, A. J., Bauer, A. M., Che, J., Donnellan, S. C., Fritz, U., Haddad, C. F. B., Nagy, Z. T., Poyarkov, N. A., Vences, M., Wang, W.-z. and Zhang, Y.-p. (2013). Cold Code: the global initiative to DNA barcode amphibians and nonavian reptiles. Molecular Ecology Resources. **13**(2): 161-167.
- Myers, G. S. (1949). Salt-tolerance of fresh-water fish groups in relation to zoogeographical problems. . Bijdragen tot de Dierkunde. **28**: 315-322.
- Nagy, Z. T., Sonet, G., Glaw, F., Vences, M. (2012). First Large-Scale DNA Barcoding Assessment of Reptiles in the Biodiversity Hotspot of Madagascar, Based on Newly Designed COI Primers. PLoS ONE. **7**(3): e34506).
- Naiman, R. J. and Magnuson, J. J. (1995). The Freshwater Imperative : A Research Agenda. Island Press, Washington D.C., U.S.A.
- Naiman, R. J. and Turner, M. G. (2000). A future perspective on North America's freshwater ecosystems. Ecological Applications. **10**: 958-970.
- Naylor, G. J. and Brown, W. M. (1998). Amphioxus mitochondrial DNA, chordate phylogeny, and the limits of inference based on comparisons of sequences. Systematic Biology. **47**(1): 61-76.
- Nei, M. K., S. (2000).Molecular evolution and phylogenetics. .
- Nelson, J. S. (1976).Fishes of the world. New York, Wiley-Interscience.
- Nelson, J. S. (1984).Fishes of the world. New York, John Wiley and Sons.
- Nelson, J. S. (1994).Fishes of the world. New York, John Wiley and Sons, Inc.
- Nelson, J. S. (2006).Fishes of the World. New York, Wiley.
- Newmaster, S., Grguric, M., Shanmughanandhan, D., Ramalingam, S. and Ragupathy, S. (2013). DNA barcoding detects contamination and substitution in North American herbal products. BMC Medicine. **11**(1): 222.
- Ng, H. H. and Hadiaty, R. K. (2009). Ompok brevirictus, new catfish (Teleostei: Siluridae) from Sumatra. Zootaxa . **2232** 50-60.
- Norman, J. R. (1963).A history of fishes. New York, Hill and Wang.
- Nunes, V. L., Mendes, R., Marabuto, E., Novais, B. M., Hertach, T., Quartau, J. A., Seabra, S. G., Paulo, O. S. and Simões, P. C. (2014). Conflicting patterns of DNA barcoding and taxonomy in the cicada genus *Tettigettalna* from southern Europe (Hemiptera: Cicadidae). Molecular Ecology Resources. **14**(1): 27-38.
- Paijmans, J. L., Gilbert, M. T. P. and Hofreiter, M. (2013). Mitogenomic analyses from ancient DNA. Molecular phylogenetics and evolution. **69**(2): 404-416.
- Palumbi, S. (1996). Nucleic acids II: the polymerase chain reaction. Molecular systematics. **2**(1): 205-247.

- Pereira, L. H., Hanner, R., Foresti, F. and Oliveira, C. (2013). Can DNA barcoding accurately discriminate megadiverse Neotropical freshwater fish fauna? *BMC Genetics*. **14**(1): 20.
- Pereira, L. H., Pazian, M. F., Hanner, R., Foresti, F. and Oliveira, C. (2011). DNA barcoding reveals hidden diversity in the Neotropical freshwater fish *Piabina argentea* (Characiformes: Characidae) from the Upper Parana Basin of Brazil. *Mitochondrial DNA*. **22 Suppl 1**: 87-96.
- Perry, M. D., White, P. L. and Barnes, R. A. (2014). Comparison of four Automated Nucleic Acid Extraction Platforms for the Recovery of DNA from *Aspergillus fumigatus*. *Journal of medical microbiology*. jmm. 0.076315-076310.
- Pethiyagoda, R., Lanka, (1991). Freshwater Fishes of Sri Lanka. . Wildlife Heritage Trust of Sri Lanka.
- Pethiyagoda, R., Kottelat, M. (1994). Three new species of fishes of the genera *Osteochilichthys* (Cyprinidae), *Travancoria* (Balitoridae) and *Horabagrus* (Bagridae) from the Chalakudy River, Kerela, India. *Journal of south Asian Natural History* **1**: 97-116.
- Petralia, S., Verardo, R., Klaric, E., Cavallaro, S., Alessi, E. and Schneider, C. (2013). In-Check system: A highly integrated silicon Lab-on-Chip for sample preparation, PCR amplification and microarray detection of nucleic acids directly from biological samples. *Sensors and Actuators B: Chemical*. **187**: 99-105.
- Pino-Bodas, R., Martín, M. P., Burgaz, A. R. and Lumbsch, H. T. (2013). Species delimitation in *Cladonia* (Ascomycota): a challenge to the DNA barcoding philosophy. *Molecular Ecology Resources*. **13**(6): 1058-1068.
- Pogson, G. H., Mesa, K. A. and Boutilier, R. G. (1995). Genetic population structure and gene flow in the Atlantic cod *Gadus morhua*: a comparison of allozyme and nuclear RFLP loci. *Genetics*. **139**(1): 375-385.
- Porco, D., Decaëns, T., Deharveng, L., James, S., Skarżyński, D., Erséus, C., Butt, K., Richard, B. and Hebert, P. N. (2013). Biological invasions in soil: DNA barcoding as a monitoring tool in a multiple taxa survey targeting European earthworms and springtails in North America. *Biological Invasions*. **15**(4): 899-910.
- Porter, T. M., Gibson, J. F., Shokralla, S., Baird, D. J., Golding, G. B. and Hajibabaei, M. (2014). Rapid and accurate taxonomic classification of insect (class Insecta) cytochrome c oxidase subunit 1 (COI) DNA barcode sequences using a naïve Bayesian classifier. *Molecular Ecology Resources*. n/a-n/a.
- Postel, S. and Ricther, B. (2003). Rivers for Life : Managing Water for People and Nature. Island Press, Washington D.C., U.S.A.
- Powers, D. A. and Schulte, P. M. (1996). A molecular approach to the selectionist/neutralist controversy. *Molecular Zoology: Advances Strategies and Protocols*, JD Ferraris and SR Palumbi, eds. John Wiley-Liss, Inc., New York. 327-352.
- Puckridge, M., Andreakis, N., Appleyard, S. A. and Ward, R. D. (2013). Cryptic diversity in flathead fishes (Scorpaeniformes: Platycephalidae) across the Indo-

- West Pacific uncovered by DNA barcoding. *Molecular Ecology Resources*. **13**(1): 32-42.
- Puillandre, N., Lambert, A., Brouillet, S. and Achaz, G. (2012). ABGD, Automatic Barcode Gap Discovery for primary species delimitation. *Molecular ecology*. **21**(8): 1864-1877.
- Rach, J., DeSalle, R., Sarkar, I. N., Schierwater, B. and Hadrys, H. (2008). Character-based DNA barcoding allows discrimination of genera, species and populations in Odonata. *Proceedings of the Royal Society B: Biological Sciences*. **275**(1632): 237-247.
- Rahel, F. J. (2002). Homogenization of freshwater faunas. *Annual Review of Ecology and Systematics*. **33**: 291–315.
- Ratnasingham S, H. P. (2007). BOLD: The Barcode of Life Data System (<http://www.barcodinglife.org>). *Molecular Ecology Notes* **7**: 355-364.
- Reid, B. N., Le, M., McCord, W. P., Iverson, J. B., Georges, A., Bergmann, T., Amato, G., Desalle, R. and Naro-Maciel, E. (2011). Comparing and combining distance-based and character-based approaches for barcoding turtles. *Mol Ecol Resour*. **11**(6): 956-967.
- Rema Devi, K. and Indra, T. J. (2009). Check list of the native freshwater fishes of india. Zoological Survey of India, Miscellaneous Publication.
- Revenga, C., Campbell, I. and Abell, R. (2005). Prospects for monitoring freshwater ecosystems towards the 2010 targets. *Philosophical Transactions of the Royal Society B*. **360**: 397–413.
- Roberts, T. R. (1992). Revision of the striped catfishes of Thailand misidentified as *Mystus vittatus*, with description of two new species (Pisces: Bagridae). *Ichthyol. Explor. Freshwat.* . **3**: 77–88.
- Rocha-Olivares, A., Rosenblatt, R. H. and Vetter, R. D. (1999). Molecular Evolution, Systematics, and Zoogeography of the Rockfish Subgenus< i> Sebastomus</i>(< i> Sebastes,</i> Scorpidae) Based on Mitochondrial Cytochrome< i> b</i> and Control Region Sequences. *Molecular phylogenetics and evolution*. **11**(3): 441-458.
- Rosso, J. J., Mabragana, E., Castro, M. G. and de Astarloa, J. M. (2012). DNA barcoding Neotropical fishes: recent advances from the Pampa Plain, Argentina. *Mol Ecol Resour*. **12**(6): 999-1011.
- Rubinoff, D. (2006). DNA barcoding evolves into the familiar. *Conserv Biol*. **20**(5): 1548-1549.
- Rubinoff, D., Cameron, S. and Will, K. (2006). A genomic perspective on the shortcomings of mitochondrial DNA for "barcoding" identification. *J Hered*. **97**(6): 581-594.
- Salemi, M., Lemey, P. and Vandamme, A.-M. (2009). *The phylogenetic handbook: a practical approach to phylogenetic analysis and hypothesis testing*. Cambridge University Press.

- Samarakoon, T., Wang, S. Y. and Alford, M. H. (2013). Enhancing PCR amplification of DNA from recalcitrant plant specimens using a trehalose-based additive. *Applications in Plant Sciences*. **1**(1).
- Sarkar, I. N., Planet, P. J., Bael, T. E., Stanley, S. E., Siddall, M., DeSalle, R. and Figurski, D. H. (2002a). Characteristic attributes in cancer microarrays. *Journal of Biomedical Informatics*. **35**(2): 111-122.
- Sarkar, I. N., Planet, P. J. and Desalle, R. (2008). CAOS software for use in character-based DNA barcoding. *Mol Ecol Resour*. **8**(6): 1256-1259.
- Sarkar, I. N., Thornton, J. W., Planet, P. J., Figurski, D. H., Schierwater, B. and DeSalle, R. (2002b). An automated phylogenetic key for classifying homeoboxes. *Mol Phylogenet Evol*. **24**(3): 388-399.
- Särkinen, T., Staats, M., Richardson, J. E., Cowan, R. S. and Bakker, F. T. (2012). How to open the treasure chest? Optimising DNA extraction from herbarium specimens. *PloS one*. **7**(8): e43808.
- Sass, C., Little, D. P., Stevenson, D. W. and Specht, C. D. (2007). DNA barcoding in the cycadales: testing the potential of proposed barcoding markers for species identification of cycads. *PloS one*. **2**(11): e1154.
- Saunders, G. W. (2005). Applying DNA barcoding to red macroalgae: a preliminary appraisal holds promise for future applications. *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*. **360**(1462): 1879-1888.
- Schlick-Steiner, B. C., Steiner, F. M., Seifert, B. and Stauffer, C. (2010). Integrative taxonomy: a multisource approach to exploring biodiversity. *Annual Review of Entomology* **55**: 431–438.
- Schneider, T. D. and Stephens, R. M. (1990). Sequence logos: a new way to display consensus sequences. *Nucleic Acids Res*. **18**(20): 6097-6100.
- Schweitzer, M. H. and Marshall, M. (2012). Claws, Scales, Beaks, and Feathers: Molecular Traces in the Fossil Record. *The Complete Dinosaur*. 273.
- Seguin-Orlando, A., Schubert, M., Clary, J., Stagegaard, J., Alberdi, M. T., Prado, J. L., Prieto, A., Willerslev, E. and Orlando, L. (2013). Ligation bias in illumina next-generation DNA libraries: implications for sequencing ancient genomes. *PloS one*. **8**(10): e78575.
- Sharp, P. M., Tuohy, T. M. and Mosurski, K. R. (1986). Codon usage in yeast: cluster analysis clearly differentiates highly and lowly expressed genes. *Nucleic acids research*. **14**(13): 5125-5143.
- Shaw, G. E. and Shebbeare, E. O. (1937). The fishes of northern Bengal. *Journal of Royal Asiatic Society of Bengal Science* 137pp.
- Shen, Y. Y., Chen, X. and Murphy, R. W. (2013). Assessing DNA barcoding as a tool for species identification and data quality control. *PLoS One*. **8**(2): e57125.
- Shokralla, S., Gibson, J. F., Nikbakht, H., Janzen, D. H., Hallwachs, W. and Hajibabaei, M. (2014). Next-generation DNA barcoding: using next-generation sequencing to enhance and accelerate DNA barcode capture from single specimens. *Molecular ecology resources*.

- Simon, C. (1994). "Blue Mpimbwe": a new variety of *Cyphotilapia frontosa*. The Cichlids Yearbook. **4**: 18-21.
- Smith, M. A., Woodley, N. E., Janzen, D. H., Hallwachs, W. and Hebert, P. D. (2006). DNA barcodes reveal cryptic host-specificity within the presumed polyphagous members of a genus of parasitoid flies (Diptera: Tachinidae). Proceedings of the National Academy of Sciences of the United States of America. **103**(10): 3657-3662.
- Steinke, D. and Hanner, R. (2011). The FISH-BOL collaborators protocol. Mitochondrial DNA. **22**(Supp. 1): 10–14.
- Stepien, C. A. and Kocher, T. D. (1997). Molecules and morphology in studies of fish evolution. Molecular systematics of fishes. 1-11.
- Stepien, C. A. and Rosenblatt, R. H. (1996). Genetic divergence in antitropical pelagic marine fishes (*Trachurus*, *Merluccius*, and *Scomber*) between North and South America. Copeia. 586-598.
- Stepien, C. A., Rosenblatt, R. H. and Bargmeyer, B. A. (2001). Phylogeography of the spotted sand bass, *Paralabrax maculatofasciatus*: divergence of Gulf of California and Pacific coast populations. Evolution. **55**(9): 1852-1862.
- Stockle, M. Y. and Hebert, P. D. (2008). Barcode of life. Scientific American. **299**(4): 82-88.
- Stoeckle, M., Waggoner, P., Ausubel, J. (2004 ). Meeting Reports and Documents (Consortium For The Barcode Of Life). Consortium For The Barcode Of Life, Smithsonian Institution, Washington, DC,.
- Stoeckle, M. Y., Kerr, K. C. , (2012). Frequency matrix approach demonstrates high sequence quality in avian BARCODEs and highlights cryptic pseudogenes. . PLoS One. **7**(e43992).
- Stothard, P. (2000). The sequence manipulation suite: JavaScript programs for analyzing and formatting protein and DNA sequences. BioTechniques **28**: 1102, 1104.
- Strange, J. P., Knoblett, J. and Griswold, T. (2009). DNA amplification from pin-mounted bumble bees (*Bombus*) in a museum collection: effects of fragment size and specimen age on successful PCR. Apidologie. **40**(2): 134-139.
- Takahara, T., Minamoto, T. and Doi, H. (2013). Using environmental DNA to estimate the distribution of an invasive fish species in ponds. PLoS One. **8**(2): e56584.
- Talwar, P. K. and Jhingran, A. G. (1991). Inland fishes of India and adjacent countries. Oxford & IBH Pub. Co.
- Tamura, K., Peterson, D., Peterson, N., Stecher, G., Nei, M. and Kumar, S. (2011). MEGA5: molecular evolutionary genetics analysis using maximum likelihood, evolutionary distance, and maximum parsimony methods. Molecular biology and evolution. **28**(10): 2731-2739.
- Tanabe, A. S. and Toju, H. (2013). Two new computational methods for universal DNA barcoding: a benchmark using barcode sequences of bacteria, archaea, animals, fungi, and land plants. PLoS One. **8**(10): e76910.

- Tautz, D., Arctander, P., Minelli, A., Thomas, R. H. and Vogler, A. (2003). A plea for DNA taxonomy. *Trends in Ecology and Evolution* **18**: 70–74.
- Taylor, H. and Harris, W. (2012). An emergent science on the brink of irrelevance: a review of the past 8 years of DNA barcoding. *Molecular Ecology Resources*. **12**(3): 377-388.
- Thomsen, M. S., Wernberg, T., Altieri, A., Tuya, F., Gulbransen, D., McGlathery, K. J., Holmer, M. and Silliman, B. R. (2010). Habitat cascades: the conceptual context and global relevance of facilitation cascades via habitat formation and modification. *Integrative and Comparative Biology*. **50**(2): 158-175.
- Van Houdt, J., Breman, F., Virgilio, M. and De Meyer, M. (2010). Recovering full DNA barcodes from natural history collections of Tephritid fruitflies (Tephritidae, Diptera) using mini barcodes. *Molecular ecology resources*. **10**(3): 459-465.
- van Velzen, R., Weitschek, E., Felici, G. and Bakker, F. T. (2012). DNA barcoding of recently diverged species: relative performance of matching methods. *PLoS One*. **7**(1): e30490.
- Vargas, S., Guzman, H., Breedy, O. and Wörheide, G. (2014). Molecular phylogeny and DNA barcoding of tropical eastern Pacific shallow-water gorgonian octocorals. *Marine Biology*. **161**(5): 1027-1038.
- Vargas, S., Schuster, A., Sacher, K., Buttner, G. and Schatzle, S. (2012). Barcoding Sponges: An Overview Based on Comprehensive Sampling. *PLoS ONE*. **7**(7): e39345.
- Vierna, J., Cuperus, J., Martínez-Lage, A., Jansen, J. M., Perina, A., Van Pelt, H. and González-Tizón, A. M. (2014). Species delimitation and DNA barcoding of Atlantic Ensis (Bivalvia, Pharidae). *Zoologica Scripta*. **43**(2): 161-171.
- Virgilio, M., Backeljau, T., Nevado, B. and De Meyer, M. (2010). Comparative performances of DNA barcoding across insect orders. *BMC bioinformatics*. **11**(1): 206.
- Virgilio, M., Jordaeans, K., Breman, F. C., Backeljau, T. and De Meyer, M. (2012). Identifying insects with incomplete DNA barcode libraries, African Fruit flies (Diptera: Tephritidae) as a test case. *PLoS One*. **7**(2): e31581.
- Vishwanath, W. and Linthoingambi, I. (2007). Redescription of catfishes *Amblyceps arunachalensis* Nath and Dey and *Amblyceps apangi* Nath and Dey (Teleostei: Amblycipitidae). *Zoos' Print Journal*. **22**: 2662–2664.
- Vogler, A. P. and Monaghan, M. T. (2007). Recent advances in DNA taxonomy. *Journal of Zoological Systematics and Evolutionary Research* **45**: 1–10.
- Wakeley, J. (1996). The excess of transitions among nucleotide substitutions: new methods of estimating transition bias underscore its significance. *Trends Ecol Evol*. **11**(4): 158-162.
- Wandeler, P., Hoeck, P. E. and Keller, L. F. (2007). Back to the future: museum specimens in population genetics. *Trends in Ecology & Evolution*. **22**(12): 634-642.

- Wang, Z. D., Guo, Y. S., Liu, X. M., Fan, Y. B. and Liu, C. W. (2012). DNA barcoding South China Sea fishes. *Mitochondrial DNA*. **23**(5): 405-410.
- Ward, R. D. (2012). FISH-BOL, a case study for DNA barcodes. *Methods Mol Biol.* **858**: 423-439.
- Ward, R. D. and Holmes, B. H. (2007). An analysis of nucleotide and amino acid variability in the barcode region of cytochrome c oxidase I (cox1) in fishes. *Molecular Ecology Notes*. **7**(6): 899-907.
- Ward, R. D., Zemlak, T. S., Innes, B. H., Last, P. R. and Hebert, P. D. (2005). DNA barcoding Australia's fish species. *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*. **360**(1462): 1847-1857.
- Waugh, J. (2007). DNA barcoding in animal species: progress, potential and pitfalls. *Bioessays*. **29**(2): 188-197.
- Weigt, L. A., Baldwin, C. C., Driskell, A., Smith, D. G. and Ormos, A. (2012). Using DNA Barcoding to Assess Caribbean Reef Fish Biodiversity: Expanding Taxonomic and Geographic Coverage. *PLoS ONE*. **7**(7)(e41059).
- Weitschek, E., Van Velzen, R., Felici, G. and Bertolazzi, P. (2013). BLOG 2.0: a software system for character-based species classification with DNA Barcode sequences. What it does, how to use it. *Molecular Ecology Resources*. **13**(6): 1043-1046.
- White, B. P., Pilgrim, E. M., Boykin, L. M., Stein, E. D. and Mazor, R. D. (2014). Comparison of four species-delimitation methods applied to a DNA barcode data set of insect larvae for use in routine bioassessment. *Freshwater Science*. **33**(1): 338-348.
- Whitehead, P. J. P., Talwar, P. K. (1976). Francis Day (1829-1889) and his collections of Indian fishes. v. 5 (no. 1): 1-189, Pls. 1-4. *Bulletin of the British Museum (Natural History) Historical Series* **5**(1): 1-189.
- Wiemers, M. and Fiedler, K. (2007). Does the DNA barcoding gap exist?—a case study in blue butterflies (Lepidoptera: Lycaenidae). *Frontiers in Zoology*. **4**(8): 1-16.
- Wilson, J. J., Rougerie, R., Schonfeld, J., Janzen, D. H., Hallwachs, W., Hajibabaei, M., Kitching, I. J., Haxaire, J. and Hebert, P. D. (2011). When species matches are unavailable are DNA barcodes correctly assigned to higher taxa? An assessment using sphingid moths. *BMC Ecol.* **11**: 18.
- Wilson, K. H. (1995). Molecular biology as a tool for taxonomy. *Clin. Infect. Dis.* **20**(Suppl.): 192-208.
- Winterbottom, R., Hanner, R. H., Burridge, M. and Zur, M. (2014). A cornucopia of cryptic species - a DNA barcode analysis of the gobiid fish genus *Trimma* (Percomorpha, Gobiiformes). *Zookeys*. (381): 79-111.
- Wong, L. L., Peatman, E., Lu, J., Kucuktas, H., He, S., Zhou, C., Na-nakorn, U. and Liu, Z. (2011). DNA barcoding of catfish: species authentication and phylogenetic assessment. *PLoS One*. **6**(3): e17812.

- Xu, Q., Schlabach, M. R., Hannon, G. J. and Elledge, S. J. (2009). Design of 240,000 orthogonal 25mer DNA barcode probes. *Proc Natl Acad Sci U S A.* **106**(7): 2289-2294.
- Yassin, A., Capy, P., Madi-Ravazzi, L., Ogereau, D. and David, J. R. (2008). DNA barcode discovers two cryptic species and two geographical radiations in the invasive drosophilid *Zaprionus indianus*. *Molecular Ecology Resources* **8**: 491–501.
- Yoshitake, H., Kato, T., Jinbo, U. and Ito, M. (2008). A new Wagnerinus (Coleoptera: Curculionidae) from northern Japan: description including a DNA barcode. *Zootaxa*. **1740**: 15–27.
- Young, M. K., McKelvey, K. S., Pilgrim, K. L. and Schwartz, M. K. (2013). DNA barcoding at riverscape scales: assessing biodiversity among fishes of the genus *Cottus* (Teleostei) in northern Rocky Mountain streams. *Molecular Ecology Resources*. **13**(4): 583-595.
- Zhang, D.-X. and Hewitt, G. M. (1996). Nuclear integrations: challenges for mitochondrial DNA markers. *Trends in Ecology & Evolution*. **11**(6): 247-251.
- Zhang, J., Kapli, P., Pavlidis, P. and Stamatakis, A. (2013). A general species delimitation method with applications to phylogenetic placements. *Bioinformatics*. **29**(22): 2869-2876.
- Zhao, L., Zhang, X., Tao, X., Wang, W. and Li, M. (2012). Preliminary analysis of the mitochondrial genome evolutionary pattern in primates. *Dongwuxue Yanjiu*. **33**(E3-4): E47-56.
- Zhu, D., Jamieson, B., Hugall, A. and Moritz, C. (1994). Sequence evolution and phylogenetic signal in control-region and cytochrome b sequences of rainbow fishes (Melanotaeniidae). *Molecular Biology and Evolution*. **11**(4): 672-683.
- Zhu, S.-R., Fu, J.-J., Wang, Q. and Li, J.-L. (2013). Identification of Channa species using the partial cytochrome c oxidase subunit I (COI) gene as a DNA barcoding marker. *Biochemical Systematics and Ecology*. **51**(0): 117-122.
- Zimmermann, J., Hajibabaei, M., Blackburn, D. C., Hanken, J., Cantin, E., Posfai, J. and Evans, T. C. (2008). DNA damage in preserved specimens and tissue samples: a molecular assessment. *Frontiers in Zoology*. **5**(1): 18.
- Zou, S., Li, Q. and Kong, L. (2012). Monophyly, distance and character-based multigene barcoding reveal extraordinary cryptic diversity in *Nassarius*: a complex and dangerous community. *PLoS One*. **7**(10): e47276.
- Zou, S., Li, Q., Kong, L., Yu, H. and Zheng, X. (2011). Comparing the usefulness of distance, monophyly and character-based DNA barcoding methods in species identification: a case study of neogastropoda. *PLoS One*. **6**(10): e26619.