

Publications for Mark Young Stoeckle

1. Yates MC, Wilcox TM, **Stoeckle MY**, Heath DD. (2022). Interspecific allometric scaling in eDNA production among northwestern Atlantic bony fishes reflects physiological allometric scaling. Environmental DNA, edn.381. ([link](#))
2. **Stoeckle MY**, Ausubel JH, Coogan M. (2022). 12S gene metabarcoding with DNA standard quantifies marine bony fish environmental DNA, identifies threshold for reproducible detection, and overcomes distortion due to amplification of non-fish DNA. Environmental DNA, edn3.376. ([link](#))
3. **Stoeckle MY**, Adolf J, Ausubel JH, Charlop-Powers Z, Dunton KJ, Hinks G (2022). Current laboratory protocols for detecting fish species with environmental DNA optimize sensitivity and reproducibility, especially for more abundant populations. ICES J Marine Sci, fsab273. ([link](#))
4. **Stoeckle MY**, Adolf J, Charlop-Powers Z, Dunton K, Hinks G, VanMorter SM. (2021). Trawl and eDNA assessment of marine fish diversity, seasonality, and relative abundance in coastal New Jersey, U.S.A. ICES J Marine Sci, fsaa225. ([link](#))
5. Stoeckle **MY**, Das Mishu M, Charlop-Powers (2020). Improved environmental DNA reference library identifies overlooked marine fishes in coastal New Jersey, U.S.A. Front Mar Sci. 7, 226. ([link](#))
6. **Stoeckle M, Ausubel J.** (2019). The eDNA revolution. Sea Technol. 60, 7. ([link](#))
7. Ausubel JH, **Stoeckle MY**, Gaffney P (2019) Final Report, First National Conference on Marine Environmental DNA ([link](#))
8. **Stoeckle MY**, Ausubel JH, Gaffney P 2018) Marine eDNA 101 ([link](#))
9. **Stoeckle MY**, Mishu M, Charlop-Powers Z (2018) GoFish: versatile nested PCR strategy for nested environmental DNA assays for marine vertebrates. PLOS ONE: 0198717 ([link](#))
10. **Stoeckle MY**, Thaler DS (2018) Why should mitochondria define species? Human Evol 33: 1-30 ([link](#))
11. **Stoeckle MY** (2017) Fishing for DNA: free-floating eDNA identifies presence and abundance of ocean life. The Conversation, April 12, 2017 ([link](#))
12. **Stoeckle MY**, Soboleva L, Charlop-Powers Z (2017) Aquatic environmental DNA detects seasonal fish abundance and habitat preference in an urban estuary. PLOS ONE 12: e0175186 ([link](#))
13. Thaler DS, **Stoeckle MY** (2016) Bridging two scholarly islands enriches both: COI DNA barcodes for species identification versus human mitochondrial variation for the study of migrations and pathologies. Ecol Evol 6: 6824-6835. ([link](#))
14. von Beeren C, **Stoeckle MY**, Xia J, Burke G, Kronauer DJC (2015) Interbreeding among deeply divergent mitochondrial lineages in the American cockroach (*Periplaneta americana*). Nature Scientific Rep 5: 8297. ([link](#))
15. **Stoeckle MY**, Thaler DS (2014) DNA barcoding works in practice but not in (neutral) theory. PLoS ONE 9:e100755. ([link](#))
16. **Stoeckle MY** (2013) DNA barcoding ready for breakout. GeneWatch 26: 510. ([link](#))
17. **Stoeckle MY**, Coffran C (2013) TreeParser-aided Klee diagrams display taxonomic clusters in DNA barcode and nuclear gene datasets. Scientific Rep 3:2635. ([link](#))
18. **Stoeckle MY** (2013) Barcoding Life: Highlights 2013 (brochure prepared for 5th International Barcode of Life Conference, Kunming, China) ([link](#))

19. **Stoeckle MY**, Kerr KCR (2012) Frequency matrix approach demonstrates high sequence quality in avian BARCODEs and highlights cryptic pseudogenes. PLoS ONE 7:e43992. ([link](#))
20. Schindel DE, **Stoeckle MY**, Milensky CM, Trizna , Schmidt BK, Gebhard CA, Graves GR (2011) Project Description: DNA Barcodes of Bird Species in the National Museum of Natural History, Smithsonian Institution, USA. ZooKeys 152:87-91. ([link](#))
21. **Stoeckle MY**, Gamble CC, Kirpekar R, Young G, Ahmed S, Little DP (2011) Commercial teas highlight plant DNA barcode identification successes and obstacles. Nature Scientific Reports 1:42. ([link](#))
22. **Stoeckle MY**, Chenery J, Schindel D (2011) Barcoding Life: Highlights 2011. (brochure prepared for 4th International Barcode of Life Conference, Adelaide, Australia) ([link](#))
23. Raupach MJ, Astrin JJ, Hannig K, Peters MK, **Stoeckle MY**, Wagele J-W (2010) Molecular identification of Central European ground beetles (Coleoptera: Carabidae) using nuclear rDNA expansion segments and DNA barcodes. Front Zool 7:26. ([link](#))
24. Sirovich L, **Stoeckle MY**, Zhang Y (2010) A structural analysis of biodiversity. (2010) PloS ONE 5:e9266. ([link](#))
25. Johnsen A, Rindal E, Ericson PGP, Zuccon D, Kerr KCR, **Stoeckle MY**, Lifjeld JT (2010) DNA barcoding of Scandanavian birds reveals divergent lineages in trans-Atlantic species. J Ornithol 151: 565-571. ([link](#))
26. Sirovich L, **Stoeckle MY**, Zhang Y (2009) A scalable method for analysis and display of DNA sequences. PLoS ONE 4:e7051. ([link](#))
27. **Stoeckle M**, Winker K (2009) A global snapshot of avian tissue collections: state of the enterprise. Auk 126:684-687. ([link](#))
28. **Stoeckle MY**, Hebert PDN (2008) Barcode of Life. Sci Amer 299:82-88. ([link](#))
29. Sodhi NS, Astuti D, Diesmos AC, Ericson P, Fernandopulle N, Kotagama S, Kudavidaneg E, Lim HC, Lee B, Lim SLH, Lin Y, Lohman DJ, Meckvichai W, Miranda H, Moyle RG, Ong P, Pan KA, Prawiradilaga D, Rahman MA, Rahmani A, Sheldon FH, **Stoeckle MY**, Sulandari S, Wang LK, Winker K (2007) Barcoding Indo-Malayan birds. Raffles Bull Zool 55:397-398. ([link](#))
30. Kerr KCR, **Stoeckle MY**, Dove CJ, Weigt LA, Francis CM, Hebert PDN (2007) Comprehensive DNA barcode coverage of North American birds. Mol Ecol Notes 7:535-543. ([link](#))
31. Hebert PDN, **Stoeckle MY**, Zemlak TS, Francis CM (2004) Identification of birds through DNA barcodes. PLoS Biol 2:1657-1663. ([link](#))
32. **Stoeckle M** (2003) Taxonomy, DNA, and the bar code of life. BioScience 53: 796-797. ([link](#))
33. Mannheimer SB, Sepkowitz KA, **Stoeckle M**, Friedman CR, Hafner A, and Riley LW (1997) Risk factors and outcome of human immunodeficiency virus-infected patients with sporadic multidrug-resistant tuberculosis in New York City. Int J Tuberc Lung Dis, Aug 1: 319-325.
34. Martins-Green M, **Stoeckle M**, Hampe A, Wimberly S, and Hanafusa H (1996) The 9E3/CEF4 cytokine: kinetics of secretion, and processing by plasmin, and interaction with extracellular matrix. Cytokine 8:448-459.
35. **Stoeckle MY**, Falck-Pederson E, Rubin BY, Anderson SL, and Murray HW (1996) Delivery of human interferon- γ via gene transfer in vitro: prolonged expression and induction of macrophage antimicrobial activity. J Interferon Cytokine Res 16:1015-1019.

36. Murray HW, Hariprashad J, McDermott DF, and **Stoeckle MY** (1996) Multiple host defense defects in failure of C57BL/6 ep/ep (pale ear) mice to resolve visceral *Leishmania donovani* infection. *Infection Immun* 64:161-166.
37. **Stoeckle MY**, Douglas Jr RG (1996) Infectious Diseases: Contempo 1996. *J Amer Med Assoc* 275:1816-1817.
38. Mannheimer SB, Hariprashad J, **Stoeckle MY**, and Murray HW. (1996) Induction of macrophage antiprotozoal activity by monocyte chemotactic and activating factor. *FEMS Immunology and Medical Microbiol* 14:59-61.
39. Sepkowitz KA, Friedman CR, Hafner A, Kwok D, Manoach S, Floris M, Martinez D, Sathianathan K, Brown E, Berger JJ, Segal-Maurer S, Kreiswirth B, **Stoeckle MY**, and Riley LW. (1995) Tuberculosis among urban health care workers: a study using restriction fragment length polymorphism typing. *Clin Infect Dis* 21:1098-1101.
40. Friedman CR, **Stoeckle MY**, Johnson WD Jr, and Riley LW. (1995) Double repetitive element PCR method for subtyping *Mycobacterium tuberculosis* clinical isolates. *J Clin Micro* 33:1383-1384.
41. **Stoeckle MY**, Douglas Jr RG (1995) Infectious Diseases: Contempo 1995. *J Amer Med Assoc*, 273:1686-1688.
42. Murray HW, Cervia JS, Hariprashad J, Taylor AP, **Stoeckle MY**, Hochman H (1995) Effect of granulocyte-macrophage colony-stimulating factor in experimental visceral leishmaniasis. *J Clin Inves* 95:1183-1192.
43. Friedman CR, **Stoeckle MY**, Kreiswirth BN, Johnson WD Jr, Manoach SM, Sathianathan K, Riley LW (1995) Transmission of multi-drug resistant tuberculosis in a large urban setting. *Amer J Resp Critical Care Med* 152:355-359.
44. **Stoeckle MY**, Douglas Jr RG (1994) Infectious Diseases: Contempo 1994. *J Amer Med Assoc* 271:1677-1679.
45. Miralles GD, **Stoeckle MY**, McDermott DF, Finkelman FD, and Murray HW (1994) Th1 and Th2 Cell-associated cytokines in experimental visceral leishmaniasis. *Infect Immun* 62:1058-1063.
46. Wallach FR, Forni AL, **Stoeckle MY**, Steinberg CR, Fisher L, Malawista SE, Murray HW (1993) Circulating *Borrelia burdorferi* in patients with acute Lyme disease: results of blood cultures and serum DNA analysis. *J Infect Dis* 168:1541-3.
47. **Stoeckle MY**, Guan L, Riegler N, Weitzman I, Kreiswirth B, Kornblum J, Laraque F, Riley LW (1993) Catalase-peroxidase gene sequences in isoniazid-sensitive and resistant strains of *Mycobacterium tuberculosis* from New York City. *J Infect Dis* 168:1063-5
48. Murray HW, Miralles D, **Stoeckle MY**, McDermott DF (1993) Role and effect of interleukin-2 in experimental visceral leishmaniasis. *J Immunol* 151:929-38.
49. Barker KA, Hampe A, **Stoeckle MY**, Hanafusa H (1993) Transformation-associated cytokine 9E3/CEF-4 is chemotactic for chicken peripheral blood mononuclear cells. *J Virol*, 67:3528-33.
50. **Stoeckle MY**, Douglas Jr RG (1993) Infectious Diseases: Contempo 1993. *J Amer Med Assoc* 270:223-4.
51. **Stoeckle MY**, Guan L. (1993) Improved resolution and sensitivity of Northern blots using polyacrylamide-urea gels. *Biotechniques*, 15:229-230.
52. **Stoeckle MY** and Guan L (1993) High-resolution analysis of groa mRNA poly(A) shortening: regulation by IL-1. *Nucleic Acids Res* 21:1613-7.
53. **Stoeckle MY**, Douglas Jr RG (1992) Infectious Diseases: Contempo 1992. *J Amer Med Assoc* 268: 366-368.

54. **Stoeckle MY** (1992) Removal of a 3' non-coding sequence is an initial step in degradation of groa mRNA and is regulated by interleukin-1. *Nucl Acids Res* 20: 1123-1127.
55. Murray HW, Squires KE, Miralles CD, **Stoeckle MY**, Granger AM, Granelli-Piperno A, Bogdan C (1992) Acquired resistance and granuloma formation in experimental visceral leishmaniasis: differential T cell and lymphokine roles in initial vs. established immunity. *J Immunol* 148 1858-1863.
56. **Stoeckle MY** (1991) Post-transcriptional regulation of groa, b, g, and IL-8 mRNAs by IL-1b. *Nucl Acids Res* 19, 917-920.
57. Cohen OJ, **Stoeckle MY**. (1991) Extrapulmonary *Pneumocystis carinii* infections in the acquired immunodeficiency syndrome. *Arch Int Med* 151:1205-1214.
58. Dutta A, **Stoeckle MY**, Hanafusa H (1990) Serum and v-src increase the level of CCAAT-binding factor required for transcription from a retroviral LTR. *Genes Devel* 4:243-254.
59. **Stoeckle MY**, Barker KA (1990) Two burgeoning families of platelet factor 4-related proteins: mediators of the inflammatory response. *The New Biologist* 2: 313-323.
60. **Stoeckle MY**, Hanafusa H (1989) Processing of 9E3 mRNA and regulation of its stability in normal and Rous sarcoma virus-transformed cells. *Mol Cell Biol* 9:4738-4745.
61. **Stoeckle MY**. (1989) Recent developments in retroviruses other than HIV. *Current Opinion Infect Dis* 2, 244-248.
62. **Stoeckle MY**, Sugano S, Hampe A, Vashishtha A, Pellman D, Hanafusa H (1988) 78-kilodalton glucose-regulated protein is induced in Rous sarcoma virus-transformed cells independently of glucose deprivation. *Mol Cell Biol* 8:2675-2680.
63. Sugano S, **Stoeckle MY**, Hanafusa H (1987) Transformation by Rous sarcoma virus induces a novel gene with homology to a mitogenic platelet protein. *Cell* 49:321-328.
64. **Stoeckle MY**, Shaw MW, Choppin PW (1987) Segment-specific and common nucleotide sequences in the non-coding regions of influenza B virus genome RNAs. *Proc Natl Acad Sci USA* 84:2703-2707.