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Education

Doctor of Philosophy in Graduate School of Science and Technology, Niigata University,
2012

Master of Science in Graduate School of Science and Technology, Niigata University,
2009

Bachelor of Science in Graduate School of Science, Niigata University, 2007

Employment

University of Shizuoka, School of Food and Nutritional Sciences, Research Assistant
Professor, 2016-present

Niigata University, Institute of Science and Technology, Research Assistant
Professor, 2012-2016

Specialty

Genetics, Evolutionary Biology

Publication

- Watanabe A, **Myosho T** et al. Levonorgestrel causes feminization 1 and dose-dependent masculinization in medaka fish (*Oryzias latipes*): endocrine-disruption activity and its correlation with sex reversal. *Science of the Total Environment*. (in press)
- Ono Y, Hirasaka K, **Myosho T** et al. Environmental DNA concentrations of Japanese eels in 1 relation to habitat characteristics. *Aquaculture Science*, (in press)
- **Myosho T** et. al. Preself-Feeding Medaka Fry Provides a Suitable Screening System for in Vivo Assessment of Thyroid Hormone-Disrupting Potential *Environmental Science and Technology*, 56, 6479–6490. 2022
- Fujimoto S, Yaguchi H, **Myosho T** et al. Population admixtures in medaka inferred by multiple arbitrary amplicon sequencing. *Scientific Reports*, 12:19989.

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- **Myosho T** et al. Effects of synthetic sex steroid hormone exposures on gonadal sex differentiation and dynamics of a male-related gene, Gonadal somaderived factor (Gsdf) and an estrogen up-regulated gene, Choriogenine-H (ChgH) gene expression in the euryhaline Javafish medaka, *Oryzias javanicus*, based on genetic sexes. *Chemosphere*, 274: 129893. 2021
- **Myosho T** et al. Inter- and Intraspecific Variation in Sex Hormone-Induced Sex-Reversal in Medaka, *Oryzias latipes* and *Oryzias sakaizumii*. *Zoological Science*, 36: 425-431. 2019
- **Myosho T** et al. Hyperosmotic tolerance of adult fish and early embryos are determined by discrete, single loci in the genus *Oryzias*.: *Scientific Reports*, 8: 6897. 2018
- Kobayashi T, Chiba A, Sato T, **Myosho T** et al. Estrogen alters gonadal soma-derived factor (Gsdf)/Foxl2 expression levels in the testes associated with testis-ova differentiation in adult medaka, *Oryzias latipes*.: *Aquatic Toxicology*, 191: 209-218. 2017
- Tohyama S, Ogino Y, Lange A, **Myosho T** et al. Establishment of estrogen receptor 1 (ESR1)-knockout medaka: ESR1 is dispensable for sexual development and reproduction in medaka, *Oryzias latipes*.: *Development Growth and Differentiation*, 59: 552–561. 2017
- Horie Y, **Myosho T**, Sato T et al. Androgen induces gonadal soma-derived factor, Gsdf, in XX gonads correlated to sex-reversal but not Dmrt1 directly, in the teleost fish, northern medaka (*Oryzias sakaizumii*). *Molecular and Cellular Endocrinology*, 436: 141-149. 2016
- **Myosho T** et al. Turnover of sex chromosomes in *celebensis* group medaka fishes. *Genes Genomes Genetics*, pii: g3.115.021543. 2015
- Takehana Y, Matsuda M, **Myosho T** et al. Co-option of Sox3 as the male-determining factor on the Y chromosome in the fish *Oryzias dancena*. *Nature Communications*, 20:5:4157. 2014
- **Myosho T** et al. The origin of the large metacentric chromosome pair in Chinese medaka (*Oryzias sinensis*) *Ichthyological Research*, 59(4): 384-388. 2012
- **Myosho T** et al. Tracing the emergence of a novel sex-determining gene in medaka, *Oryzias luzonensis*. *Genetics*, May; 191(1): 163-70. 2012
- Otake H, Masuyama H, Mashima Y, Shinomiya A, **Myosho T** et al. Heritable artificial sex chromosomes in the medaka, *Oryzias latipes*. *Heredity*, 105(3): 247-56. 2010

