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Qualifications

Biology/zoophysiology, Ph.D.
1 Jan 1982 → 30 May 1984
Award Date: 12 Nov 1984

Biology/zoophysiology, M. Sc., Aarhus University
1 Sep 1974 → 19 Sep 1980
Award Date: 19 Sep 1980

Employment

Professor

Marine Biology
Helsingør, Denmark
1 Aug 1989 → nu

Researcher

Danmarks Miljøundersøgelser, Aarhus Universitet
1 Oct 1988 → 30 Jul 1988

postdoc

Aarhus University
Tjele, Denmark
1 Jan 1986 → 30 Sep 1988

postdoc

Department of Zoology University of British Columbia Vancouver BC Canada.
1 Jan 1985 → 31 Dec 1985

Visiting Scientist

RSMAS, University of Miami, Miami, FL
United States
1 Sep 1980 → 31 Aug 1981

Research outputs

The rostral micro-tooth morphology of blue marlin, *Makaira nigricans*

Pacher, K., Breuker, M., Hansen, M. J., Kurvers, R. H. J. M., Häge, J., Dhellemmes, F., Domenici, P., Steffensen, John Fleng, Krause, S., Hildebrandt, T., Fritsch, G., Bach, P., Sabarros, P. S., Zaslansky, P., Mahlow, K., Müller, J., Armas, R. G., Ortiz, H. V., Galván-Magaña, F. & Krause, J., 2024, In: Journal of Fish Biology. 104, 3, p. 713-722 10 p.

A novel protocol for rapid deployment of heart rate data storage tags in Atlantic bluefin tuna *Thunnus thynnus* reveals cardiac responses to temperature and feeding

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Bowhead NEIL1: molecular cloning, characterization, and enzymatic properties

Holm, S., Larsen, R. M., Holst, C. M., Heide-Jørgensen, M. P., Steffensen, John Fleng, Stevnsner, T. & Larsen, K., 2023, In: *Biochimie*. 206, p. 136-149 14 p.

Model of Oxygen Conditions within Aquaculture Sea Cages

Bergsson, H., Svendsen, M. B. S. & Steffensen, John Fleng, 2023, In: *Biology*. 12, 11, 17 p., 1408.

Physiological effects of temperature on Greenland halibut *Reinhardtius hippoglossoides* shows high vulnerability of Arctic stenotherms to global warming

Ruth, A., Svendsen, M. B. S., Nygaard, R., Christensen, E. A. F., Bushnell, P. G. & Steffensen, John Fleng, 2023, In: *Journal of Fish Biology*. 103, 3, p. 675-683 9 p.

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Escaping from multiple visual threats: modulation of escape responses in Pacific staghorn sculpin (*Leptocottus armatus*)

Kimura, H., Pfalzgraff, T., Levet, M., Kawabata, Y., Steffensen, John Fleng, Johansen, J. L. & Domenici, P., 2022, In: *The Journal of Experimental Biology*. 225, 9, 9 p., jeb243328.

Lacunae rostralis: A new structure on the rostrum of sailfish *Istiophorus platypterus*

Häge, J., Hansen, M. J., Pacher, K., Dhellemmes, F., Domenici, P., Steffensen, John Fleng, Breuker, M., Krause, S., Hildebrandt, T. B., Fritsch, G., Bach, P., Sabarros, P. S., Zaslansky, P., Mahlow, K., Schauer, M., Müller, J. & Krause, J., 2022, In: *Journal of Fish Biology*. 100, 5, p. 1205-1213 9 p.

Intraspecific variation in thermal tolerance differs between tropical and temperate fishes

Nati, J. J. H., Svendsen, M. B. S., Marras, S., Killen, S. S., Steffensen, John Fleng, McKenzie, D. J. & Domenici, P., 2021, In: *Scientific Reports*. 11, 8 p., 21272.

Latency of mechanically stimulated escape responses in the Pacific spiny dogfish, *Squalus suckleyi*

Schakmann, M., Becker, V., Søgaard, M., Johansen, J. L., Steffensen, John Fleng & Domenici, P., 2021, In: *Journal of Experimental Biology*. 224, 6 p., jeb230698.

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Regulate or tolerate: Thermal strategy of a coral reef flat resident, the epaulette shark, *Hemiscyllium ocellatum*

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Bidirectional cyclical flows increase energetic costs of station holding for a labriform swimming fish, *Cymatogaster aggregata*

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Linking hunting weaponry to attack strategies in sailfish and striped marlin

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Are all bony fishes oxygen regulators? Evidence for oxygen regulation in a putative oxygen conformer, the swamp eel *Synbranchus marmoratus*

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Intra-Specific Difference in the Effect of Salinity on Physiological Performance in European Perch (*Perca fluviatilis*) and Its Ecological Importance for Fish in Estuaries

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Intussusceptive Vascular Remodeling Precedes Pathological Neovascularization

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Respiratory Physiology of European Plaice (*Pleuronectes platessa*) Exposed to *Prymnesium parvum*

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Too hot to handle? Using movement to alleviate effects of elevated temperatures in a benthic elasmobranch, *Hemiscyllium ocellatum*

Gervais, C. R., Nay, T. J., Renshaw, G., Johansen, J. L., Steffensen, John Fleng & Rummer, J. L., 2018, In: *Marine Biology*. 165, 11, p. 1-12 162.

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The effect of hypoxia on fish schooling

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The Evolution of Lateralization in Group Hunting Sailfish

Kurvers, R. H. J. M., Krause, S., Viblanc, P. E., Herbert-Read, J. E., Zaslansky, P., Domenici, P., Marras, S., Steffensen, John Fleng, Svendsen, M. B. S., Wilson, A. D. M., Couillaud, P., Boswell, K. M. & Krause, J., 2017, In: Current Biology. 27, 4, p. 521-526 6 p.

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Fish swimming in schools save energy regardless of their spatial position

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Intraspecific variation in aerobic and anaerobic locomotion: gilthead sea bream (*Sparus aurata*) and Trinidadian guppy (*Poecilia reticulata*) do not exhibit a trade-off between maximum sustained swimming speed and minimum cost of transport

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Not so fast: swimming behavior of sailfish during predator-prey interactions using high-speed video and accelerometry

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Severe hypoxia impairs lateralization in a marine teleost fish

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The response of striped surfperch *Embiotoca lateralis* to progressive hypoxia: swimming activity, shoal structure, and estimated metabolic expenditure

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Activities

FitFish Training Course in Respirometry

Steffensen, John Fleng (Organizer)

May 2016 → ...

EU Cost Action FA1303 FitFish

Steffensen, John Fleng (Participant)

2015 → 2018

EU Cost Action (External organisation)

Steffensen, John Fleng (Board member)

2011 → 2015

MadFish Respiratory and Circulatory Fish Physiology PhD-course.

Steffensen, John Fleng (Organizer)

13 Jan 2010 → 22 Jan 2010

The Swedish Research Council Formas - Sustainable Use of Natural Resources. (External organisation)

Steffensen, John Fleng (Member)

1 Mar 2009 → ...

TUNU-Programme: MARINE FISHES OF NE GREENLAND – diversity and adaptation (External organisation)

Steffensen, John Fleng (Board member)

2007 → 2015

MADFISH - Molecular ADaptations of FISH (External organisation)

Steffensen, John Fleng (Member)

1 Jan 2006 → ...

The Swedish Research Council Formas - Veterinary Medicin and Animals. (External organisation)

Steffensen, John Fleng (Member)

1 Mar 2005 → 1 Mar 2009

Fishnet.dk <http://www.fishnet.dk/> (External organisation)

Steffensen, John Fleng (Member)

1 Jan 2003 → ...

NordPlus (External organisation)

Steffensen, John Fleng (Member)

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SLIP - Scaling Individuals to Populations. (External organisation)

Steffensen, John Fleng (Member)

1 Jan 2000 → ...

Press/Media

24 spørgsmål til professoren - den gådefulde Grønlandshaj.

John Fleng Steffensen

11/10/2021

1 Media contribution

BBC Earth: The one thing everyone knows about swordfish is wrong.

John Fleng Steffensen & Morten Bo Søndergaard Svendsen

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John Fleng Steffensen & Julius Nielsen

12/08/2016

1 Media contribution

CNN: Long in the tooth: Greenland shark named longest-living vertebrate.

John Fleng Steffensen

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21/03/2006

1 Media contribution

Den dovne gamle haj

John Fleng Steffensen

10/01/2014

1 Media contribution

I Fucking Love Science: Scientists Capture Incredible Footage Of Mysterious 400-Year-Old Greenland Shark

John Fleng Steffensen

15/06/2017

1 Media contribution

I Fucking love Science: Caught on Camera: Sword-Wielding Sailfish Slashing Sardines.

John Fleng Steffensen

22/04/2014

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National Geographic: 272-Year-Old Shark Is Longest-Lived Vertebrate on Earth.

John Fleng Steffensen & Julius Nielsen

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National Geographic: Sailfish Use Inescapable Face- Swords to Wound, Then Kill.

John Fleng Steffensen

22/04/2014

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New Scientist: Sword-slashing sailfish hint at origins of cooperative hunting:

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John Fleng Steffensen

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John Fleng Steffensen

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2 Media contributions

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