

Department of Ecophysiology and Aquaculture



Dr. Thomas Meinelt

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Fish pathology

Main research interests

Alternative treatments in an organic aquaculture, disinfection in RAS
Ecotoxicity of potash mining effluents, lignite mining effluents
Effects of humic substances on fish

Education 1982 - 1987
1987
1987-1989
1990

Humboldt-University of Berlin
M.A. theses in fish diseases
Humboldt-University of Berlin, research student
Doctoral theses in fish toxicology, Dr. agriculturarum

Professional appointments since 2012
1995-1999
since 1992
1989-1991

Deputy head of the department Ecophysiology and Aquaculture
Scientific assistant of the IGB director
Scientist at the IGB
Scientist at the Institute of Inland Fisheries (IfB)

Five key publications (last five years)

LIU, DIBO, PEDERSEN, LARS-FLEMMING, STRAUS, DAVID L., KLOAS, WERNER, MEINELT, THOMAS. (2017). Alternative prophylaxis/disinfection in aquaculture – Adaptable stress induced by peracetic acid at low concentration and its application strategy in RAS. *Aqua*(2017), <http://dx.doi.org/10.1016/j.Aquaculture.2017.03.027>

LIU, DIBO, STRAUS, DAVID L., PEDERSEN, LARS-FLEMMING, MEINELT, THOMAS. (2017). Pulse versus continuous peracetic acid applications: Effects on rainbow trout performance, biofilm formation and water quality. *Aquacultural Engineering*, <http://dx.doi.org/10.1016/j.aquaeng.2017.03.004>

MEINELT, T., PHAN, T.-M., BEHRENS, S., WIENKE, A., PEDERSEN, L.-F. LIU, D. AND STRAUS, D.L. (2015) Growth inhibition of *Aeromonas salmonicida* and *Yersinia ruckeri* by disinfectants containing peracetic acid. *Diseases of Aquatic Organisms*, 113, 3: 207-213

MEINELT, T., KROUPOVA, H., STÜBER, A., RENNERT, B., WIENKE, A., STEINBERG, C.E.W. 2010. Can dissolved aquatic humic substances reduce the toxicity of ammonia and nitrite in recirculating aquaculture systems? *Aquaculture* 306, 378-383.

STRAUS, D.L., T. MEINELT, B.D. FARMER, AND B.H. BECK. Acute Toxicity and Histo-pathology of Channel Catfish Fry Exposed to Peracetic Acid. *Aquaculture*, 2012, 342–343, 15, 34–138.

**Three main research projects
(last five years)**

- Disinfection in RAS with Peracetic acid.
- Humic- and fulvic acids for the conditioning of fish in aquaculture.
- Fish toxicity of potash mining effluents, reproduction toxicity, stress and immune response.

**Current teaching
and supervision**

Lectures

Environmental stress in fishes, Humboldt-University of Berlin

Graduate students

Marit Wagler
Nora Baberschke
Thora Lieke

**Current services
and memberships**

Editorial boards

Science of the total environment
Environmental pollution

Scientific advisory boards and committees

Member of the eel commission of the German fisheries society

Memberships

European Association of fish pathologists
Verband Deutscher Fischereiwissenschaftler und Fischereiverwaltungsbeamter (VDFF)

Honours and awards

Honorary member of the German anglers association (DAV)