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PRIMARY RESEARCH PAPERS

Differences in nest site characteristics and hatching success in White-winged Tern (*Chlidonias leucopterus*) and Black Tern (*Chlidonias niger*)

A. Golawski · E. Mroz 1

Microhabitat selection of axolotls, *Ambystoma mexicanum*, in artificial and natural aquatic systems

C. Ayala · A.G. Ramos · Á. Merlo · L. Zambrano 11

Shape and size variation of *Jenynsia lineata* (Jenyns 1842) (Cyprinodontiformes: Anablepidae) from different coastal environments

G.X. Perazzo · F. Corrêa · P. Calviño · F. Alonso · W. Salzburger · A. Gava 21

Physiologically adaptive plasticity in nutrient resorption efficiency of *Avicennia officinalis* L. under fluctuating saline environments in the Sundarbans of Bangladesh

Md. Rabiul Alam · H. Mahmood · T. Biswas · Md. Masudur Rahman 41

Assessment of habitat and survey criteria for the great crested newt (*Triturus cristatus*) in Scotland: a case study on a translocated population

L.R. Harper · J.R. Downie · D.C. McNeill 57

The effect of fasting on nutritional status, organs size and isotopic composition in a Neotropical fish species (*Jenynsia multidentata*)

N. Vidal · I. González-Bergonzoni · D.E. Naya 73

Better with more or less salt? The association of fish assemblages in coastal lagoons with different salinity ranges

T.P. Franco · L.M. Neves · F.G. Araújo 83

Seasonal changes in relative contribution of environmental control and spatial structuring on different dispersal groups of stream macroinvertebrates

A. Csercsa · E.Á. Krasznai-K. · G. Várbiro · I. Szivák · M. Tóth · D. Árvai · E. Bódis ·

C. Deák · P. Mauchart · A. Móra · T. Erős · J. Padisák · P. Boda 101

Respiration rates in shallow lakes of different types: contribution of benthic microorganisms, macrophytes, plankton and macrozoobenthos

J. Żbikowski · T. Simčič · F. Pajk · M. Poznańska-Kakareko · T. Kakareko · J. Kobak 117

Epizoic rotifers on *Dreissena polymorpha* in relation to biotic factors

J. Ejsmont-Karabin · M. Karpowicz 137

***Didymosphenia geminata* habitat requirements are unique and variable for cell establishment and mat accumulation**

L.A. Hix · J.N. Murdock 147

Physical, biogeochemical, and meteorological factors responsible for interannual changes in cyanobacterial community composition and biovolume over two decades in a eutrophic lake

C.A. Weirich · D.M. Robertson · T.R. Miller 165

Benthic diatom metacommunity across small freshwater lakes: driving mechanisms, β -diversity and ecological uniqueness

B. Szabó · E. Lengyel · J. Padisák · C. Stenger-Kovács 183

Interplay between sediment properties and stream flow conditions influences surface sediment organic matter and microbial biomass in a Mediterranean river

V. Ann · A. Freixa · A. Butturini · A.M. Romaní 199

Grazing and growth rate of a cyclopoid copepod fed with a phytoplankton diet constituted by a filamentous cyanobacterium

M. Gebrehiwot · D. Kifle · L. Triest 213

The role of an invader in its native range: could differential grazing by apple snails structure the submersed macrophytes assemblages in Southern Pampas (Argentina)?

E. Manara · M.A. Maldonado · P.R. Martín 229

Correction to: The role of an invader in its native range: could differential grazing by apple snails structure the submersed macrophytes assemblages in Southern Pampas (Argentina)?

E. Manara · M.A. Maldonado · P.R. Martín 243

Estimating stable isotope turnover rates of epidermal mucus and dorsal muscle for an omnivorous fish using a diet-switch experiment

E.R. Winter · E.T. Nolan · G.M.A. Busst · J.R. Britton 245

Evaluation of digestive capacity in the polyp, ephyrae, and medusae stages of the cannonball jellyfish *Stomolophus meleagris*

M. González-Valdovinos · L. Ocampo · D. Tovar-Ramírez 259

How close is microhabitat and diet association in aquatic ecomorphotypes? A test with tadpoles of syntopic species

J.S. Kloh · C.C. Figueredo · P.C. Eterovick 271

Approaches for phosphorus removal with calcium hydroxide and floating macrophytes in a mesocosm experiment: impacts on plankton structure

D. Frau · M.E. Spies · Y. Battauz · J. Medrano · R. Sinistro 287

Spatio-temporal population dynamics of six phytoplankton taxa

L. Forsblom · S. Lehtinen · A. Lindén 301

Drift compensation in larval European fire salamanders, *Salamandra salamandra* (Amphibia: Urodela)?

M. Veith · M. Baubkus · S. Kugel · C. Kulpa · T. Reifenrath · M. Schafft · N. Wagner 315

Exploring the suitability of bromeliads as aquatic breeding habitats for cacao pollinators

M. Vandromme · H. Trekels · N. Sepúlveda Ruiz · E. Somarriba · B. Vanschoenwinkel 327

Rotifer communities under variable predation-turbulence combinations

J. Horppila · L. Härkönen · N. Hellén · S. Estlander · Z. Pekcan-Hekim · A. Ojala 339

Defining ecological status of phytobenthos in very large rivers: a case study in practical implementation of the Water Framework Directive in Romania

M.G. Kelly · G. Chiriac · A. Soare-Minea · C. Hamchevici · S. Birk 353

Extreme drought periods can change spatial effects on periphytic ostracod metacommunities in river-floodplain ecosystems

R. de Campos · E.O. Conceição · K. Martens · J. Higuera 369

Cover illustration *Didymosphenia geminata* mats in the South Fork Holston River, Tennessee USA. Mats are up to 5 cm thick and cover approximately 80–90% of the stream bottom. The mats are mainly composed of non-living filaments (white areas) used to attach cells to the substrate, with living *D. geminata* cells on the perimeter (brown areas). Photograph by Justin Murdock (Tennessee Technological University). (*Hydrobiologia* 828, pp. 147–164).

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