

CONTENTS

VOLUME 211, No. 1: AUGUST 2006

RESEARCH NOTE

Kimbell, Jennifer R., Tanya A. Koropatnick, and Margaret J. McFall-Ngai

Evidence for the participation of the proteasome in symbiont-induced tissue morphogenesis 1

SYMBIOSIS AND PARASITOLOGY

Goodson, Michael S., Wendy J. Crookes-Goodson, Jennifer R. Kimbell, and Margaret J. McFall-Ngai

Characterization and role of p53 family members in the symbiont-induced morphogenesis of the *Euprymna scolopes* light organ 7

deBoer, Melissa L., Dave A. Krupp, and Virginia M. Weis

Two atypical carbonic anhydrase homologs from the planula larva of the scleractinian coral *Fungia scutaria* 18

NEUROBIOLOGY AND BEHAVIOR

Krichmar, Jeffrey L., David Velasquez, and Giorgio A. Ascoli

Effects of β -catenin on dendritic morphology and simulated firing patterns in cultured hippocampal neurons 31

PHYSIOLOGY AND BIOMECHANICS

Scholnick, David A., Karen G. Burnett, and Louis E. Burnett

Impact of exposure to bacteria on metabolism in the penaeid shrimp *Litopenaeus vannamei* 44

Burnett, Louis E., Jeremy D. Holman, Darwin D. Jorgensen, Jennifer L. Ikerd, and Karen G. Burnett

Immune defense reduces respiratory fitness in *Callinectes sapidus*, the Atlantic blue crab 50

Lovett, Donald L., Michael P. Verzi, Joseph E. Burgents, Christopher A. Tanner, Krzysztof Glomski, Joan J. Lee, and David W. Towle

Expression profiles of Na⁺,K⁺-ATPase during acute and chronic hypo-osmotic stress in the blue crab *Callinectes sapidus* 58

Byrne, R. A., and T. H. Dietz

Ionic and acid-base consequences of exposure to increased salinity in the zebra mussel, *Dreissena polymorpha* 66

von Dassow, Michelangelo

Function-dependent development in a colonial animal 76

ECOLOGY AND EVOLUTION

Wulff, Janie L.

Sponge systematics by starfish: Predators distinguish cryptic sympatric species of Caribbean fire sponges, *Tedania ignis* and *Tedania klausii* n. sp. (Demospongiae, Poecilosclerida) 83