

Apple Snail Egg Neurotoxin

Chuenjit Meeposom, Mahāwitthayālai Mahidon, Mahāwitthayālai Mahidon. Faculty of Environment and Resource Studies

MACPF/CDC Proteins - Agents of Defence, Attack and Invasion Gregor Anderluh, Robert Gilbert, 2014-05-05 This book focusses on evolutionary, structural and functional aspects of pore-forming proteins, bringing together prominent researchers in the fields of structural biology and cellular and biophysical techniques. The focus is on the MACPF/CDC protein super family that was originally discovered because of unexpected structural similarity between a domain present in bacterial cholesterol-dependent cytolysins (CDC) and proteins of the membrane attack complex/perforin (MACPF) family. Members of the MACPF/CDC super family are crucial for many biological processes, being efficient agents of development, defence, attack and invasion of cells and tissues. However, their best-known role is in bacterial pathogenesis and the proper functioning of the vertebrate immune system, via formation of transmembrane pores in target cell membranes. The book contains chapters on the distribution of MACPF/CDC proteins and on aspects of their evolution and structural properties, the similarities between different super family members and functional properties of some of the best known examples. The book also contains an overview of biophysical approaches that may be used in the future to provide further insights into how these interesting proteins function.

Perforins and Cholesterol-Dependent Cytolysins in Immunity and Pathogenesis George P. Munson, Robert John Crispin Gilbert, Gabriele Pradel, 2022-07-25

Invasive Species Reviews: 2018-2024 David Hemming, 2024-12-25 Invasive species are responsible for significant impacts on agriculture, food security and health worldwide. This collection looks at a wide range of invasive species, including insects, plants, snails, fungal diseases, including: *Mimosa diplotricha*, *Chromolaena odorata*, privet, *Opuntia*, fall armyworm, *Aedes albopictus*, *Prostephanus truncatus*, Pomacea, and ash dieback. The articles examine mechanisms for detecting the spread of invasive species, and models for understanding the mechanisms of invasion alongside control and management approaches with a particular focus on biological control. The articles have been specially selected from contributions to CABI Reviews.

Issues in Biochemistry and Biophysics Research: 2011 Edition , 2012-01-09 Issues in Biochemistry and Biophysics

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Malacologia ,2015

Advances in Invertebrate (Neuro)Endocrinology (2-volume set) Saber Saleuddin,Angela B. Lange,Ian Orchard,2020-05-13 Advances in Invertebrate (Neuro)Endocrinology: A Collection of Reviews in the Post-Genomic Era (2-volume set) provides an informative series of reviews from expert scientists who are at the forefront of their research into the endocrinology of invertebrates. These two volumes are timely and appropriate in this post-genomic era because of the rapid pace of change brought about by genome projects, functional genomics, and genetics (omics technologies). The volume shows the rich history and strong tradition of cutting-edge research using invertebrates that has opened up our broader understanding of comparative endocrinology and the evolution of regulatory pathways and systems. These reviews set the scene and context for this exciting new era of understanding that has come from this post-genomic revolution. This book undertakes the daunting task of covering most of the diverse endocrine systems that exist among invertebrates. The papers in this book will advance our knowledge of invertebrate endocrinology but also of endocrinology in general, making the book will be valuable to researchers and students.

Developmental Toxicity of Giant Apple Snail (Pomacea Maculata) Egg Extract on 5 Aquatic Species Andrew Allen Shirley,2020

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Molecular Evolution of Egg Perivitelline Fluid Proteins in Apple Snails (ampullariidae, Caenogastropoda) Chi Ho Ip,2019 Gastropods are a highly diverse clade of molluscs that includes limpets, snails and slugs, and the only molluscan lineage with members that have successfully colonized land. Amphibious operculate freshwater gastropods, Ampullariidae, exhibit various morphological and physiological adaptations to their respective habitats, which make them ideal candidates for studying the mechanisms underlying adaptive evolution in gastropods. In the last two decades, there have been interests

in the diverse reproductive behaviors of ampullariids: while most genera of apple snails deposit their eggs in a jelly mass underwater, two genera (i.e., Pomacea and Pila) deposit calcareous egg clutches above the waterline. The shift from aquatic to aerial oviposition required the concerted evolution of the adult snail's egg laying behavior as well as the composition of the egg. Today, only limited genomic information is available for this ecologically important family, except in the genus Pomacea, which hinders the investigation of its evolutionary history and mechanism. I have, therefore, developed the publicly accessible transcriptome database, AmpuBase, as molecular resources to support various transcriptomic and proteomic analyses. The database comprise de novo transcriptome assembly of eight species that belong to five representative genera of Ampullariidae. For each species there were 20,730 to 35,828 unigenes with predicted open reading frames, with an N50 ranging from 1,320 to 1,803 bp and 69.7% to 80.2% with functional annotation. Since the ability of laying out-of-water eggs is one of the key steps of terrestrialsation for aquatic snails, I analysed the proteome of perivitelline fluid (PVF) for the eggs of *Marisa cornuarietis* that were laid underwater. The PVF proteome of *P. diffusa* also investigated to reveal and compare the biochemical adaptation between *P. diffusa* clade and *P. canaliculata* clade. Using LC-MS/MS coupled with transcriptome database, I identified a total of 36 and 32 PVF proteins from *M. cornuarietis* and *P. diffusa*, respectively. Comparison of PVF proteomes among the aquatic (*M. cornuarietis*) and three aerial ovipositing ampullariids (*P. diffusa*, *P. canaliculata* and *P. maculata*) showed that the four species all contain several major perivitellins that are important for the nutrition of the embryos. *M. cornuarietis* invests heavier in protection against pathogens, whereas the unique presence of calcium binding protein and their high albumen gland expression in three Pomacea, implying the importance of the novel acquisition of this protein for forming the calcareous eggshell of terrestrial eggs. I also found the absence of a neurotoxin (PV2) in *M. cornuarietis* and *P. diffusa* PVF, indicating this protein was acquired after the divergence between the ancestors of *P. diffusa* clade and the *P. canaliculata* clade, and protects *P. canaliculata* and *P. maculata* eggs against terrestrial predators. Evolutionary analyses detected the involvement of gene duplication, positive selection and neofunctionalisation in the formation of several major PVF proteins. With the availability of ampullariid genomes and transcriptomes, I conducted an integrated evolutionary analysis of Pomacea PVF with an aim to understand the molecular adaptations underlying the transition from underwater to terrestrial egg deposition. There were many expanded gene families in the New World ampullariids; some of them may be important for their evolution towards terrestrial egg laying. The PV1 oligomer protein was a novel protein acquired by the common ancestor of New World species to nourishing their terrestrial eggs. Meanwhile, gene duplication followed by neofunctionalisation of MACPF-tachylectin paralogs has contributed to the novel acquisition of the toxic PV2 protein in the *P. canaliculata* species complex. Overall, using Ampullariidae as an example, my study has demonstrated the power of integrative genomics to address various fundamental questions in evolutionary biology. The findings have enhanced our mechanistic understanding of invasion of terrestrial habitats by aquatic gastropods.

Mechanisms of Species Invasion in Apple Snails Huawei Mu, 2016 The Pomacea apple snails are amphibious operculate freshwater gastropods. They exhibit different stress tolerant abilities as some of them are invasive (e.g., *Pomacea maculata* and *Pomacea canaliculata*) and others are non-invasive species (e.g., *Pomacea diffusa*). By using a comparative approach, I have profiled the perivitelline fluid of *P. maculata*, compared the physiological and proteomic responses of *P. canaliculata* and *P. diffusa* to thermal and hypoxic stressors, and examined their sequence divergences. 74 proteins were identified from the PVF of *P. maculata*. Comparison of gene expression levels between albumen gland (the organ that secretes PVF) and other organs showed that 24 PVF genes were specifically expressed in albumen gland. Base substitution analysis of PVF and housekeeping orthologs between *P. maculata* and its congener *P. canaliculata* showed that these reproductive genes have higher evolutionary rate. The LT50 of *P. canaliculata* was significantly higher than that of *P. diffusa*. More than 3,350 proteins were identified from the hepatopancreas of the snails exposed to acute and chronic thermal stress using iTRAQ-coupled mass spectrometry. Chronic exposure caused differential expression of more proteins, with many of them related to restoration of damaged molecules, ubiquitinating dysfunctional molecules, and utilization of energy reserves in both species; but only in *P. diffusa* there was a shift from carbohydrate to lipid catabolism. Analysis of orthologous genes encoding the differentially expressed proteins revealed nine candidate genes may have undergone positive selection ($K_a/K_s > 0.5$). A 72 h mortality experiment showed that *P. canaliculata* is much more tolerant to hypoxia than *P. diffusa*. The two species were then exposed to four levels of dissolved oxygen (6.7, 4.1, 2.0 and 1.0 mg O₂ L⁻¹) for 8 h, and their gill proteins were analyzed using iTRAQ-coupled LC-MS/MS. Compared with *P. diffusa*, *P. canaliculata* had more up-regulated signal transduction proteins and down-regulated proteins which are involved in glycolysis and the tricarboxylic acid cycle. Evolutionary analysis indicated that selection has acted on some of the hypoxia responsive genes. The comparative method and results provide a framework for studying the genetic basis of species invasion and predicting their further expansion in a changing climate for non-model species.

Biology, Ecology and Control of the Invasive Channeled Apple Snail, *Pomacea Canaliculata* Christina M. Trexler, 2011 Invasive species are detrimental to native biotas worldwide. Recently, Florida was invaded by a freshwater snail (*Pomacea canaliculata*) native to Argentina. This snail is a serious pest of rice crops in Asia, but little is known about its interactions within Florida ecosystems. Possible competitive exclusion of the native congener (*P. paludosa*) is a concern because it is the almost exclusive prey of the federally endangered Everglades snail kite (*Rostrhamus sociabilis*). My research consisted of three parts. First, to identify possible methods to control *P. canaliculata* in the egg stage, I experimentally evaluated the effects of photoperiod, substrate availability, and food type and availability on hatching success and hatchling survival. None of these factors significantly affected hatching or survival, suggesting that *P. canaliculata* could invade many water bodies. Second, I used a randomized block design to assess the separate and combined effects of population density

and food availability on growth and spawning of *P. canaliculata*. Food availability but not density significantly affected growth; snails fed less food grew less, but neither factor affected spawning. Third, I used a replacement series design to assess competition between *P. canaliculata* and *P. paludosa* under food limitation. For both species, snails fed less grew significantly less, and snails exposed to greater congener densities spawned less than when exposed to conspecifics only. While my results predict that *P. paludosa* should exclude *P. canaliculata*, previous literature and current invasions suggest that the exotic snail may co-exist with its North American congener.

Physiology of the Invasive Apple Snail, *Pomacea Maculata* (Perry, 1810), in Louisiana Kristy Mueck, 2018 Apple snails are in the Family Ampullariidae, a family of freshwater gastropods. Some species in the genus *Pomacea* have gained considerable notoriety as very destructive invasive species. Ampullariids have a gill and breathe water; in some species, the mantle cavity is modified into an air sack that may function as a lung or flotation device. Apple snails definitively identified as *Pomacea maculata* have successfully invaded numerous localities in Louisiana, and studies of the physiology of these animals may enhance our understanding of the biology of highly invasive species and suggest effective approaches to controlling the invasive populations. This study investigated respiration of *P. maculata* in water and in air and the ability of the animals to survive long-term emersion in a state of aestivation. The ability of the animals to disperse over dry ground was studied. Finally, the anatomy of the gill and lung were examined. The results of the study indicate that the gill and the lung in *P. maculata* are vascularized, capable of gas exchange, and fully functional, which permits survival and respiration in water and during long- and short-term exposure to air. Both the capacity to sustain travel over dry land and the ability to survive long term aerial exposure in an aestivated state were demonstrated by *P. maculata*. The major physiological changes observed during aestivation include a decrease in heart rate, a reduction in VO_2 , and the use of discontinuous respiration. A review of published literature suggests that extensive physiological variation exists among populations of native and invasive *P. maculata*. In conclusion, *P. maculata* in Louisiana is well-adapted to life in both water and air, can move overland, and can survive emersion for over a year. These physiological adaptations suggest that controlling the further spread of *P. maculata* will be very difficult.

Amazonian Apple Snails Bruno Sampaio Sant'Anna, Gustavo Yomar Hattori, 2017 The Amazon forest is one of the world's most complex, unknown and threatened ecosystems that holds a considerable part of the Earth's biodiversity. This ecosystem needs greater scientific attention so that we can better understand the features of its fauna and conserve species before they become extinct. Thus, this book addresses issues about resources within Earth's largest rainforest. In addition, the knowledge of the molluscs in the Amazon region is extremely scarce, and in most cases only information concerning their spatial distribution is available. Specifically, for the gastropods of the *Pomacea* genus, which were introduced in every continent and became known as pests, scientific knowledge in native areas is very important to understand. Research may

help to control these organisms and the many areas they tend to invade. Specialists and scientists that work with apple snails in the Amazon and around the world can access new information about the species that inhabit this region with unprecedented advances in various scientific aspects such as diversity and occurrence, anatomy aspects of Pomacea in Peru, and phylogeny of this group in the Amazon region. Information about the biological aspects such as imposex development, effects of the dry season duration in the gastropod growth, aquaculture technical to human food production, and reproduction (including oviposition, fecundity, substrate selection, ultrastructural view of spermatozoa and egg predation). All of this is synthesized to bring the reader an informative compilation of data and research focusing on apple snails of the Amazon. Target Audience: This book will be relevant to researchers that work with apple snails in Amazon region and others locations around the world, mainly in areas which gastropods are a pests. Besides information about culture techniques and meat quality of Amazon Apple Snails are available, and are very important to culture of these gastropods in large scale to human food. Chapters related to biodiversity, ecology and biology of apple snails also be very useful. Information about parasites that use these gastropods as a host, is also present in this book, and will help to understand the life cycle of these organisms. The information about apple snails in Amazon region is rare, so this book will contribute to improve the knowledge about this freshwater mollusk.

Applesnail (*Pomacea Canaliculata*-complex) Feeding Selectivity, Reproductive Potential, and Environmental Impact on Texas Gulf Coast Ecosystems Leah Denell Cartwright, 2006 Channeled-type applesnail (*Pomacea canaliculata*-complex) is an aquatic invasive species native to South America that has the potential to cause harm to aquatic ecosystems and agriculture in the USA. The snails currently inhabit six counties in southeastern Texas. Wetland restoration efforts prompted concern over the feeding habits of this voracious aquatic pest. Snail feeding on important wetland macrophyte species was studied in a laboratory setting by extent of plant consumption. Wetland macrophytes tests included: *Canna glauca*, *Ceratophyllum demersum*, *Hymenocallis liriosme*, *Panicum hemitomon* *Pontedaria cordata*, *Ruppia maritima*, *Sagittaria graminea*, *Sagittaria lancifolia*, *Scirpus californicus*, *Scirpus maritimus*, *Spartina alterniflora*, *Thalia dealbata*, and *Typha latifolia*. Channeled-type applesnails significantly consumed four (*C. demersum*, *H. liriosme*, *R. maritima*, and *S. lancifolia*) of the thirteen macrophyte species tested (54-95%). Five species of plants (*C. glauca*, *P. hemitomon*, *P. cordata*, *S. graminea*, and *S. maritimus*) were consumed between 12-41%. Five plant species were consumption below 10% (*S. alterniflora*, *S. californicus*, *S. maritimus*, *T. dealbata*, and *T. latifolia*) in at least one replicate test had conflicting results when compared with the control. Size selective feeding studies were also performed using four snail size groups (0-20, 21-40, 41-60, and 61-80 mm). The snails that consumed the most macrophytes compared to body weight were the 0-20mm range. Reproductive potential was studied by monthly monitoring of three isolated ponds in Anahuac, TX at Chambers County Golf Course and in a laboratory setting by measuring egg diameters and number of eggs per egg mass. Average egg diameter

decreased from 2.03 ± 0.16 mm in the beginning of the reproductive season to 1.59 ± 0.14 mm as the reproductive season came to an end with a negative regression between average egg diameter and sampling month (P

The Utilization of Cashew Nut Shell Crude Extract for Golden Apple Snail (*Pomacea Canaliculata*) Control Chuenjit Meeposom, Mahāwitthayālai Mahidon, Mahāwitthayālai Mahidon. Faculty of Environment and Resource Studies, 2004

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