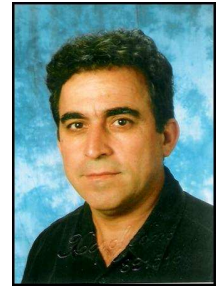


## **CURRICULUM VITAE, BASILE MICHAELIDIS**

### **Personal information**

First name: Basile  
 Last name: Michaelidis  
 Date of birth: 1 January 1956  
 Place of birth: Thessaloniki  
 Country: Greece  
 Nationality: Greek  
 Family: Married, 2 childrens  
 Official address: Laboratory of Animal Physiology, Department of Zoology,  
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links:

<http://klimabio.web.auth.gr/en/> (still under construction)

<http://eracom.bio.auth.gr/>

<http://www.bio.auth.gr/v1/en>

### **Appointments**

1985 - 1989 Professor in the Secondary Schools, Greece.  
 1990 - 1994 Lecturer, Department of Zoology, Laboratory of Animal Physiology, School of Biology, Aristotle University of Thessaloniki.  
 1994 - 2003 Assistant Professor, Department of Zoology, Laboratory of Animal Physiology, School of Biology, Aristotle University of Thessaloniki.  
 2003 - 2012 Associate Professor, Department of Zoology, Laboratory of Animal Physiology, School of Biology, Aristotle University of Thessaloniki.  
 2012 - Today Professor, Department of Zoology, Laboratory of Animal Physiology, School of Biology, Aristotle University of Thessaloniki.

### **Postdoctoral Studies**

1. 1983. Department of Zoology, University College of Wales, Aberystwyth.1988-1989. Department of Biochemistry, University of Carleton, Ottawa, Canada.
2. 1996. Institut für Zoologie, Lehrstuhle für Tierphysiologie, Heinrich-Heine Universität, 40225 Dusseldorf, Germany.
3. 1997. Institut für Zoologie, Lehrstuhle für Tierphysiologie, Heinrich-Heine Universität, 4225 Dusseldorf, Germany.
4. 2000. Institut für Zoologie, Lehrstuhle für Tierphysiologie, Heinrich-Heine Universität, 4225 Dusseldorf, Germany.

### **Membership of several organization and professional bodies**

Hellenic Society for Biological Sciences  
 Hellenic Society of Biologist  
 European Society of Comparative Biochemistry and Physiology  
 Hellenic Society of Zoologist  
 Member of «Μεσόγειος SOS»  
 Member of Sustainable Development of AUTH

## Theses and MSc supervised

### PhD Theses

Evaggelia Rofalickou (1994): «Acid-base balance in land snails *Helix lucorum*».

Andreas Anestis (2002): «Biochemical and metabolic responses of mollusks to temperature».

Konstantinos Feidantsis (2006): «Seasonal biochemical and metabolic responses of fish *Sparus aurata*».

### M.Sc. Theses

1. Basile Kostoglou (2004): «Metabolic adaptation of fish *Sparus aurata* to temperature».

2. Demitrios Karayianis (2005): «Effects of parasite *Martelia* spp. on the physiology of *Mytilus galoprovencialis* ».

3. Maria Katsikatsou (2008): «Biochemical and physiological stress responses of *Modiolus barbatus*».

4. Konstantinos Feidantsis (2009): «Biochemical and physiological stress responses of *Sparus aurata*».

5. Evaggelia Dokou (2012-2013): «Biochemical and molecular stress responses of *Sparus aurata* during seasonal changes».

6. Despoina Porlou (2013-2014). «Seasonal energy investments in the farmed fish *Pagrus pagrus*. Correlations with the increasing sea temperature».

7. Andreas Vartsistas (2015-2016). «Metabolic responses of *Mytilus galloprovincialis* to increased temperature»

8. Lennie Duppont (2015-2016). «Seasonal metabolic and stress responses of farmed fish *Pagrus pagrus* and *Sparus aurata*».

### Dissertation Theses

1991-1992:

Evaggelia Rofalickou: «Effects of hypoxia on the heart rate and glycolytic enzymes of *Anodonta gygnea*».

Peristera Athanasiadou: «Effects of serotonin on the heart rate and glycolytic enzymes of *Anodonta gygnea*».

1992-1993:

Hlias Kappas: «Effects of serotonin on the heart rate and glycolytic enzymes of *Helix lucorum*»

Theologos Pardalidis: «Regulation of PK from the heart of *Helix lucorum* (L.) during hibernation ». Aggeliki Dikou: «Regulation of glycolysis in the heart of *Helix lucorum* (L.) »

Konstantinos Apostolopoulos: «Effects of FMRFamide on the heart rate and glycolysis of *Helix lucorum* (L.) ».

1993-1994:

Magdalini Grigoriou :«Effects of serotonin on the heart rate and glycolytic enzymes of *Helix lucorum* (L.)».

Polixeni Koropouli: «Effects of serotonin and on the levels of F-2,6-P<sub>2</sub> in the heart of *Helix lucorum* (L.)».

1994-1995:

Eleutherios Vasiliou: «Regulation of PFK in the heart of *Helix lucorum* (L.)».

1996-1997:

Paraskevi Vakouftsi: «Study on the regulation of PK in the anoxic heart of *Helix lucorum* (L.)».

Evaggelia Chira: «Study on the regulation of glycolysis in the anoxic heart of *Helix lucorum* (L.) ».

1997-1998:

Artemis Palidou: «Study on the regulation of glycolysis in the nervous system of *Helix lucorum* (L.)».

Kalliopi Chatziaggelidou: « Study on the regulation of PK in the hypercapnic heart of *Helix lucorum* (L.) ».

1999-2000:

Stefanos Dalianis: «Determination of biogenic amines and GABA in the gaggia of *Helix lucorum* (L.) during anoxia».

2000-2001:

George Alexakos: «Regulation of oxygen consumption in the gaggia of *Helix lucorum* during estivation».

2001-2002:

Andreas Paleras: «Effects of CO<sub>2</sub> on the growth rate of *Mytilus galloprovincialis*».

Christos Ouzounis: «Effects of CO<sub>2</sub> on the acid-base balance and metabolism of *Mytilus galloprovincialis*»

2002-2003:

Zacharoula Nikolakopoulou: «Study of protein metabolism in anoxic and hypercapnic *Mytilus galloprovincialis*».

Dimitra Vavoulidou: «Study of metabolic rate in the hypercapnic *Helix lucorum*».

2003-2004:

Xenia Pousou: «Effects of hypercapnia on the aerobic capacity of *Helix lucorum*».

Eleytherios Paterakis: «Effects of hypercapnia on the glycolysis of *Helix lucorum*».

2004-2005:

Elisabeth Gaitatzidou: «Effects of temperature on the aerobic capacity of *Sparus aurata*».

Kyriaki Konstantinou: «Study on the effects of hibernation on the aerobic capacity of *Helix lucorum*».

Charalampos Aostolides: «Effects of temperature on the aerobic capacity metabolism of *Sparus aurata*».

2005-2006:

Evaggelia Kesidou: «Effects of temperature on the activities of glycolytic enzymes of several land snail species».

Emilia Gripioti: «Seasonal studies on enzymatic isoenzymatic isophorms of LDH from *Sparus aurata*».

2006-2007:

Catherina Kiktsi: «Seasonal studies on the effects of temperature on the isoenzymatic isophorms of LDH from *Sparus aurata*».

2007-2008:

Sotiria Ioannou: «Effects of temperature on the stress responses of mussels».

Themis Kyprianou: «Effects of temperature on the aerobic capacity of *Sparus aurata*».

2008-2009:

Andreas Vartsitsas: «Effects of high temperature on the function of proteins in the *Modiolus barbatus*»

Eumophia Petropoulou: «Seasonal changes in the hematological parameters of *Sparus aurata*»

2011-2012.

Evagelia Ntokou: «Synergistic effects of temperature and CO<sub>2</sub> on *Mytilus galloprovincialis*».

2012-2013

Charilaos Papastefanou: «Synergistic effects of temperature and CO<sub>2</sub> on *Modiolus barbatus*».

Anny Mertzianian: «Effects of temperature on the mussels *Modiolus barbatus*».

2013-2014.

Dionisia Athanasiadou: «Seasonal changes on fatty acids in *Sparus aurata* and *Pagrus pagrus*»

Elisavet Vlachonicola: « Seasonal changes on lipids in *Sparus aurata* and *Pagrus pagrus* »

Modestos Nakos: «Biochemical and physiological responses of *Helix lucorum* from different altitudes»

### Research interesting

- *Ecophysiology of marine bivalves, fish and land snails*
- *Climate change, global warming, thermal stress and impacts on marine and land invertebrates and vertebrates*
- *Molecular and metabolic responses of marine and land invertebrates and vertebrates to temperature and CO<sub>2</sub>*
- *Conservation physiology and aquaculture*

Among the environmental factors temperature has a pervasive impact on ectothermic organisms and influences function at all, whole organism to molecular levels of biological organization. In the context of climate changes thermal biology has been at the center of research examining small or large scale physiological patterns in natural populations of marine organisms along latitudinal or intertidal clines. Physiological traits and underlying biochemical mechanisms are very important in setting thermal limits and species boundaries.

Coastal marine systems are among the most ecologically and socio-economically vital on the planet. However, there is a strong scientific consensus that coastal marine ecosystems, along with the goods and services they provide, are threatened by anthropogenic global climate change. Intertidal organisms as mussels inhabit an interface between aquatic and terrestrial habitats where they are exposed to extreme physical conditions during low tides. These organisms experience body temperatures that exceed the temperature of the surrounding air and regularly approach sublethal thermal limits. Organisms residing higher in the intertidal are more likely to experience prolonged thermal and desiccation stresses than are organisms lower in the intertidal. For example mussels found high on the shore will be emersed for longer periods of time and will experience a greater bout of thermal stress. However, the challenge of predicting the outcomes of climate change is made difficult when the combined effects of two or more variables cannot be predicted from the individual effect of each. Non-independent effects are common in nature, and may arise in one of two principle ways: (1) the impact of one factor is either strengthened or weakened by variation in another factor; and (2) the combined influence of two stressors pushes an individual or population beyond a critical threshold that would not be reached via variation in either forcing variable operating in isolation.

Our research is focused on the physiological processes of marine molluscs and fish and how they are influenced either during thermal stress or during ocean acidification. The aim of our works is not only to examine the physiological responses of marine animals to elevation of ambient temperature, but mainly to determine the thermal limits and the

physiological performance of marine organisms. It has been indicated by several investigators that the physiological processes contribute markedly in the determination of biogeographical boundaries of marine animals in an ecosystem. Accordingly, by understanding the molecular and metabolic responses of animals during thermal or acidic conditions we can illustrate mechanistically how cells and whole organisms are influenced during thermal stress and, by integrating these results with oceanographic and climatological data, to project the impacts of global warming on their physiological performance. From an ecological part of view these data are very important since we could project changes in the population of species, even more disturbance in the synthesis of communities.

### **Establishment of Klimabionetwork (<http://klimabio.web.auth.gr>)**

The goal of Klimabionetwork is the coordinated activation and organization of research programs for the study of the effects of climatic change on the biology of marine organisms. Specifically the Klimabionetwork designs and perform of experiments to evaluate the impacts of climate change on the biology of marine organisms. The long-term objective of this network is to use the collected data for the creation or improvement of current prediction models. In the mean time the network try to record possible changes in the atmospheric composition, focusing on the changes of CO<sub>2</sub> levels, and to collect data concerning larger scale changes in the regional climate of the area. These data will be used in the study of the effect of temperature rise in the biology of organisms, as to ascertain the levels. Forecasts from atmospheric climatic models will be used in the study of the effects of changes of the composition and temperature of the atmosphere to living organisms and ecosystems. The results of these studies are expected to greatly improve our understanding of organism functionality and our ability to manage the ecosystems in which they live. Finally, amongst the objectives of the network is the proliferation of the acquired knowledge and of the new results to students and to concerned citizens. This objective is achieved through hosting talks and oral presentations by distinct scientists and specialists of the area of climatic change and ecophysiology and by attracting mass media

### **Funded Projects**

#### *a. Coordinator*

1999-2001 (4.000.000 dr.). «Study of acid-base balance of mussels under hypercapnia». Funded by the Greek General Creterian of Research and Technology and Institut fur Zoologie, Lehrstute fur Tierphysiologie, Heinrich-Heine-Universitat, Dusseldorf.

2004-2005 (17.000 €). «Pilot program on the management and conservation of chavara *Modiolus barbatus* in Thermaikos Gulf». Funded By Prefecture of Thessalaniki.

2005-2008 (200.000 €). «Management and conservation of chavara *Modiolus barbatus* in Thermaikos Gulf». Funded by the Greek General Secretariat of Research and Technology (<http://chavara.web.auth.gr>).

2008-2009. (5.000 €). Establishment of KLIMABIO network (<http://klimabio.web.auth.gr>). Funding by the Research Committee of Aristotle University. Coordinator

2009-2010 (85.000 €). «Establishment of Biotelemetry Floating and Meteorological Stations in Thermaikos Gulf». Funded by the Research Committee of Aristotle University. Coordinator.

*b. Member and scientific collaborator*

2010-2012 (505.000€). «Development and application of tools towards an integrated coastal zone management of Thermaikos Gulf: pilot implementation in the west coastal zone» Action 3. Creation of an observatory towards an integrated coastal zone management of Thermaikos gulf and Action 4. Planning and implementation of Environmental Monitoring (<http://eyecoast.web.auth.gr>). Financed by the EEA/EFTA countries: Iceland, Liechtenstein and Norway within the framework of the EEA Financial Mechanism ("EEA FM") and by the Hellenic Public Investment Program.

**Peer-Reviewer of 125 international journal articles**

1999: Comparative Biochemistry and Physiology, Part B.  
 2001: Journal of Experimental Biology.  
 2003: Physiological and Biochemical Zoology.  
 2005: Comparative Biochemistry and Physiology, Journal of Molecular Histology.  
 2006: Marine Ecology-Progress Series, Marine Biology.  
 2007: Marine Biology, Aquatic Biology.  
 2008: Climate Change, Comparative and Biochemistry and Physiology Part B, Journal of Physiology, Marine Biology, Journal of Comparative Physiology (B), Journal of Thermal Biology.  
 2009: Marine Biology, Comparative Biochemistry and Physiology, Journal of Experimental Marine Biology and Ecology, Journal of Comparative Physiology (B), Journal of Shellfish Research, ECSS, Journal of Experimental Zoology, Journal of Biological Research, Climate Research.  
 2010: Physiological and Biochemical Zoology, Comparative and Biochemistry and Physiology Part B, Italian Journal of Zoology, Journal of Molluscan Studies, FEBS Letters, Neuroscience Letters.  
 2011. Journal of Geophysical Research, Marine Environmental Research, ISRNZoology, Marine Ecology-Progress Series, Physiological and Biochemical Zoology, Journal of Thermal Biology, Biosciences Discussion.  
 2012. Journal of Experimental Biology, PlosOne, Climate Change  
 2013. Journal of Comparative Physiology (B)  
 2014: Marine Biology, Aquaculture, PLOs  
 2015: Comparative Biochemistry and Physiology, Marine Biology, ICES

**Organization of workshops and meetings**

24-11-2006: «Climate Change and impacts on marine organisms». The meeting was held under the auspices of the Research Committee of AUTH and in establishing the thematic network KLIMABIO.

18-9-2008: «The mollusks in Thermaikos Gulf-Conservation and Exploitation». The meeting took place at the Congress Center Kiminion of Thessaloniki in collaboration with the local stakeholders. Presented and discussed results from the program "The mollusc in Thermaikos Bay-management and conservation" in the Context of the Operational Programme for Fisheries 2000-2006 Measure 4.6 " Innovative Measures".

21-05-09: Workshop in Congress Center Kiminion of Thessaloniki "Laboratory testing and certifying shellfish health and safety." The meeting was funded by the Prefecture of Thessaloniki.

8-11-2011: International workshop on "Climate change and natural resources management in the Hellenic Coastal Zone". It is going to be held in Thessaloniki 8-9 November, 2011.

10-11-2014: International workshop on "Ecoinnovation and entrepreneurship in conservation and management of marine resources". It is going to be held in Thessaloniki 10-11 November, 2014.

## Publications in SCI Journals

### 1985

**1. Michaelidis B.**, Lazou A. and Beis I. (1985). Purification, catalytic and regulatory properties of pyruvate kinase from the foot of *Patella caerulea* (L.). *Comp. Biochem. Physiol.* 82B: 405-412.

[doi:10.1016/0305-0491\(85\)90260-3](https://doi.org/10.1016/0305-0491(85)90260-3)

### 1987

**2.** Lazou A., Gaitanaki C., **Michaelidis B.**, Papadopoulos A. and Beis I. (1987). Purification, catalytic and regulatory properties of malate dehydrogenase from the foot of *Patella caerulea* (L.). *Comp. Biochem. Physiol.* 88B: 1033-1040.

[doi:10.1016/0305-0491\(87\)90002-2](https://doi.org/10.1016/0305-0491(87)90002-2)

### 1988

**3. Michaelidis B.**, Gaitanaki C. and Beis I. (1988). Modification of pyruvate kinase from the foot muscle of *Patella caerulea* (L.) during anaerobiosis. *J. Exp. Zool.* 248: 264-271.

<http://onlinelibrary.wiley.com/doi/10.1002/jez.1402480304/pdf>

### 1989

**4.** Lazou A., **Michaelidis B.** and Beis I. (1989). Evidence for glycolytic enzyme binding during anaerobiosis of the foot muscle of *Patella caerulea* (L.). *J. Comp. Physiol.* 158B: 771-777.

<http://www.springerlink.com/content/rr63457052t872t8/fulltext.pdf>

**5. Michaelidis B.**, Lazou A. and Beis I. (1989). The possible role of enzyme binding in the control of glycolysis in the foot muscle of *Patella caerulea* (L.) during electrical stimulation. *Comp. Biochem. Physiol.* 93B: 247-250.

[doi:10.1016/0305-0491\(89\)90076-X](https://doi.org/10.1016/0305-0491(89)90076-X)

### 1990

**6. Michaelidis B.** and Beis I. (1990). Studies on the anaerobic energy metabolism in the foot muscle of marine gastropod *Patella caerulea* (L.). *Comp. Biochem. Physiol.* 95B: 493-500.

[doi:10.1016/0305-0491\(90\)90009-I](https://doi.org/10.1016/0305-0491(90)90009-I)

**7.** Papadopoulos A., **Michaelidis B.** and Lazou A. (1990). Tissue specific isoenzyme of D-Lactate dehydrogenase from the foot, mantle and hepatopancreas of *Patella caerulea* (L.). Purification and properties. *Int. J. Biochem.* 22:601-605.

[doi:10.1016/0020-711X\(90\)90035-2](https://doi.org/10.1016/0020-711X(90)90035-2)

**8. Michaelidis B.** and Storey B.K. (1990). Phosphofructokinase from the anterior byssus retractor muscle of *Mytilus edulis*: Modification of the enzyme in anoxia and by endogenous protein kinases. *Int. J. Biochem.* 22: 759-765.

[doi:10.1016/0020-711X\(90\)90012-R](https://doi.org/10.1016/0020-711X(90)90012-R)

**9. Michaelidis B.**, Papadopoulos A. and Beis I. (1990). Effect of anoxia on the kinetic properties of pyruvate kinase and phosphofructokinase, and on glycogen phosphorylase activity in marine worms and earth worms. *J. Comp. Physiol.* 160B: 201-206.  
<http://www.springerlink.com/content/jk2673t1458401m9/fulltext.pdf>

**10. Michaelidis B.** and Storey B.K. (1990). Influence of pH on the regulatory properties of anaerobic and anoxic forms of pyruvate kinase in a marine whelk. *J. Exp. Zool.* 253: 245-251.  
<http://onlinelibrary.wiley.com/doi/10.1002/jez.1402530303/pdf>

**11. Michaelidis B.** and Storey B.K. (1990). Anaerobiosis and the regulation of glycolytic enzymes in the sea anemone *Metridium senile*. *J. Exp. Zool.* 256: 145-161.  
<http://onlinelibrary.wiley.com/doi/10.1002/jez.1402560205/pdf>

**12. Michaelidis B.** and Storey B.K. (1990). Interactions of temperature and pH on the regulatory properties of pyruvate kinase from organs of marine mollusc. *J. Exp. Mar. Biol. Ecol.* 140: 187-196.  
[doi:10.1016/0022-0981\(90\)90126-W](https://doi.org/10.1016/0022-0981(90)90126-W)

## 1991

**13. Michaelidis B.** and Storey B.K. (1991). Evidence for phosphorylation-dephosphorylation control of phosphofructokinase from the anoxia-tolerant sea mussel *Mytilus edulis*. *J. Exp. Zool.* 257: 1-9.  
<http://onlinelibrary.wiley.com/doi/10.1002/jez.1402570102/pdf>

**14.** Papadopoulos A., **Michaelidis B.** and Beis I. (1991). Pyruvate kinase from the earth worm *Allobophora calliginosa*: Modification of the enzyme during anaerobiosis. *Can. J. Zool.* 69: 251-254.  
<http://rparticle.web-p.cisti.nrc.ca/rparticle/AbstractTemplateServlet?journal=cjz&volume=69&year=1991&issue=69&msno=z91-038&calyLang=eng>

## 1993

**15.** Kaloyianni M., Michaelidis B. and Moutou K. (1993). Effect adenosine on glucose metabolism of *Rana ridibunda* erythrocytes. *J. Exp. Biol.* 177: 41-50.

**16. Michaelidis B.**, Rofalikou E. and Beis I. (1993). The effect of serotonin (5-hydroxyptamine) on glycolysis in the perfused ventricle of the fresh-water bivalve *Anodonta cygnea*: Evidence for phosphorylation/dephosphorylation control of phosphofructokinase. *J. Exp. Biol.* 180: 15-25.

## 1994

**17. Michaelidis B.** and Pardalidis T. (1994). Regulation of pyruvate kinase (PK) from the ventricle of land snail *Helix lucorum* during early and prolonged estivation and hibernation. *Comp. Biochem. Physiol.* 107B: 585-591.  
[doi:10.1016/0305-0491\(94\)90189-9](https://doi.org/10.1016/0305-0491(94)90189-9)

**18. Michaelidis B.** and Athanasiadou P. (1994). Effect of reduced oxygen tension on the heart rate and the kinetic properties of glycolytic key enzymes PFK, PK and glycogen phosphorylase from the freshwater mussel *Anodonta cygnea* (L.). *Comp. Biochem. Physiol.* 108 B: 165-172 (Impact factor 0,831).



doi:10.1016/0305-0491(94)90062-0

## 1997

**19.** Pappa-Louisi A., Rofalickou E. and **Michaelidis B.** (1997). Determination of biogenic amines and related compounds in the ganglia and the auricle and ventricle of the heart of the snail *Helix lucorum* (L.) by HPLC with amperometric detection. J. Liq. Chrom. & Rel. Techol., 20(15), 2427-2439.

<http://dx.doi.org/10.1080/10826079708002713>

**20.** **Michaelidis B.** and Vasiliou E. (1997). Evidence for the short-term regulation of glycolytic flux in the isolated perfused ventricle of the land snail *Helix lucorum* (L.) after treatment with serotonin (5-hydroxytryptamine). J. Comp. Physiol. 167 B: 508-516.

<http://www.springerlink.com/content/pujmj742rh0tcf3/fulltext.pdf>

## 1999

**21.** Rofalickou E., Pappa-Louisi A. and **Michaelidis B.** (1999). Effects of estivation on the levels of biogenic amines and related compounds in the ganglia, the auricle and the ventricle of the heart of the pulmonate land snail *Helix lucorum* (L): evidence for physiological roles of serotonin and dopamine in the control of heart function during estivation. J. Exp. Zool. 283: 137-146.

[http://onlinelibrary.wiley.com/doi/10.1002/\(SICI\)1097-010X\(19990201\)283:2%3C137::AID-JEZ4%3E3.0.CO;2-H/pdf](http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1097-010X(19990201)283:2%3C137::AID-JEZ4%3E3.0.CO;2-H/pdf)

**22.** **Michaelidis B.**, Pallidou A. and Vakouftsi P. (1999). Effect of anoxia on the extra- and intracellular acid-base status in the land snail *Helix lucorum* (L): lack of evidence for a relationship between pyruvate kinase down-regulation and acid-base status. J. Exp. Biol. 202: 1667-1675.

<http://jeb.biologists.org/cgi/reprint/202/12/1667>

**23.** **Michaelidis B.**, Rofalickou E. and Grieshaber K. M (1999). Effect of hypercapnia on force and rate of contraction and intracellular pH of perfused ventricles from the land snail *Helix lucorum* (L.). J. Exp. Biol. 202: 2993-3001.

<http://jeb.biologists.org/cgi/reprint/202/21/2993>

## 2001

**24.** Staikou A., Stiakakis M. and **Michaelidis B.** (2001). Effects of prolonged acclimation to cold on the extra- and intracellular acid-base status in the land snail *Helix lucorum* (L.). Physiol. Biochem. Zool. 74 (3): 404-412.

<http://www.journals.uchicago.edu/doi/abs/10.1086/320422>

## 2002

**25.** **Michaelidis B.** (2002). Studies on the extra- and intracellular acid-base status and its role on metabolic depression in the land snail *Helix lucorum* (L.) during estivation. J. Comp. Physiol. 72 B: 347-354.

<http://www.springerlink.com/content/5ah3bgvqc23q9064/fulltext.pdf>

**26.** **Michaelidis B.**, Loumbourdis N. and Kapaki E. (2002). Analysis of monoamines, adenosine and GABA in tissues of the land snail *Helix lucorum* and lizard *Agama stellio* during hibernation. J. Exp. Biol. 205: 1135-1144.

<http://jeb.biologists.org/cgi/reprint/205/8/1135>

## 2005

**27. Michaelidis B.**, Haas D. and Grieshaber K. M. (2005). Extracellular and intracellular acid-base status with regard to energy metabolism in the oyster *Crassostrea gigas* during exposure to air. *Physiological and Biochemical Zoology* 78 (3): 373-383.  
<http://www.journals.uchicago.edu/doi/abs/10.1086/430223>

**28. Michaelidis B.**, Ouzounis C, Paleras A. and Pörtner H.O. (2005). Effects of long-term moderate hypercapnia on the growth rate and acid-base balance in the marine bivalve *Mytilus galloprovincialis*. *Mar. Ecol.-Prog. Ser.* 293: 109-118.  
<http://www.int-res.com/articles/meps2005/293/m293p109.pdf>

**29.** Pörtner H.O., Langenbuch M. and **Michaelidis B.** (2005). Synergetic effects of increased CO<sub>2</sub>, temperature and hypoxia on marine animals. *J. Geophys. Res.-Oceans* 110 (C9): art. no. C09S10 SEP 23.  
<http://www.agu.org/pubs/crossref/2005/2004JC002561.shtml>

## 2007

**30.** Michaelidis B., Vavoulidou D., Rousou X. and Pörtner H.O. (2007). The potential role of CO<sub>2</sub> in initiation and maintenance of estivation in the land snail *Helix lucorum*. *Physiological and Biochemical Zoology* 80 (1): 113-124.  
<http://www.journals.uchicago.edu/doi/abs/10.1086/509210>

**31. Michaelidis B.**, Spring A. and Pörtner H.O. (2007). Effects of long-term acclimation at hypercapnia on acid-base status and metabolism in tissues of *Sparus aurata*. *Mar. Biol.* 150 (6): 1417-1429.  
<http://www.springerlink.com/content/p4765g527k775211/fulltext.pdf>

**32.** Anestis A., Lazou A., Pörtner H.O. and **Michaelidis B.** (2007). Behavioural, metabolic and molecular stress indicators in the marine bivalve *Mytilus galloprovincialis* during long-term acclimation at increasing ambient temperature. *Am. J. Physiol.-Regul. Integr. Comp. Physiol.* 293: R911-R921.  
<http://ajpregu.physiology.org/cgi/content/full/293/2/R911#BIBL>

## 2008

**33.** Anestis A., Pörtner H.O. and **Michaelidis B.** (2008). Metabolic and molecular stress indicators in the marine bivalve *Mytilus barbatus* during long-term acclimation at increasing ambient temperature. *J. Exp. Biol.* 211:2889-2898.  
<http://jeb.biologists.org/cgi/reprint/211/17/2889>

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**2009**

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