



# Bulletin

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Further information at [www.bryozoa.net/iba](http://www.bryozoa.net/iba)

## News from the Membership

**Andrej Ernst.** I visited the Paleontological Institute in Moscow at the end of October. I spent 10 days there photographing type material to Russian papers for the Treatise. At this point, I would like to thank kind ladies from the bryozoologist group in PIN! Due to their dedicated help and assistance, I managed to shoot 1.400 digital images from the nice and extensive material on Palaeozoic and Mesozoic stenolaemate bryozoans deposited in PIN. So that I had even time to have a sightseeing in Moscow!

**Seabourne Rust:** I would like to wish all IBA members and their families a happy new year! Currently I am continuing to work from home (Hokianga, New Zealand) on a local Miocene bryozoan fauna. At least 32 taxa have been recognised from the Waititi Formation and a number of these encrust tests of the large foraminiferan *Lepidocyclina*. Thanks to Bjorn B. for his reference work! I hope to describe the Hokianga fossil fauna in more detail. Also, as follow up to my PhD work, an article on the diversity, distribution, and paleoecology of Plio-Pleistocene bryozoans from the Wanganui Basin (co-authored with D. Gordon) is due to be published soon in New Zealand Journal of Geology and Geophysics.

**Kevin Tilbrook:** Please note correct email address: [kevin.tilbrook@qm.qld.gov.au](mailto:kevin.tilbrook@qm.qld.gov.au). This is different from the address shown on the most recent IBA membership list.

**Leandro Vieira.** After the IBA Conference in Kiel I had a great time in Natural History Museum (London) and Muséum national d'Histoire naturelle (Paris), to study the *Scrupocellaria* specimens as part of my PhD.

In MNHM (Paris) I met Dr. Jean Loup d'Hondt and Pierre Lozouet. In Museum I studied some Atlantic specimens of Candidae and found by first time species described from Brazilian coast in '50s by Ernst Marcus.

In Natural History Museum, Mary Spencer Jones and I worked hard for over 3 months on the *Scrupocellaria* collection. We SEMed all type specimens of *Scrupocellaria* deposited at the NHM to look at the morphological variations within the genus and for future re-descriptions of each species. At this moment, we have found more than 100 different species in the collection (about 60 new species), but there are still some specimens which require re-examination (future work!). Mary will present part of results at next Larwood meeting in Spain and we'll start to publish the results of this new collaboration soon. During this time I also enjoyed the lunches, teatimes, pubs and discussions with other NHM colleagues Paul Taylor, Consuelo Sendino, Beth Okamura, Andrea Waeschenbach, Emanuela Di Martino and Nadia Santodomingo.

This year I have some field trips to collect Bryozoans in Brazilian coast (for taxonomic and genetics studies), with Dr. Karin Hoch Fehlaue Ale (CEBIMar/USP) and Dr. Alvaro E. Migotto (my supervisor). I still planning to visit some Natural History Museums in USA, and work with Judy (my co-supervisor) on *Scrupocellaria* specimens collected in Atlantic and Pacific coast of US.

Best wishes to all and Happy New Year!

**Patrick Wyse Jackson.** Please note that my email address is <wysjcknp@tcd.ie>. If you are using a version that contains the word 'mail' then change it in your address books for that above. Unbeknownst to users, 'mail' was added by the old College server to some outgoing

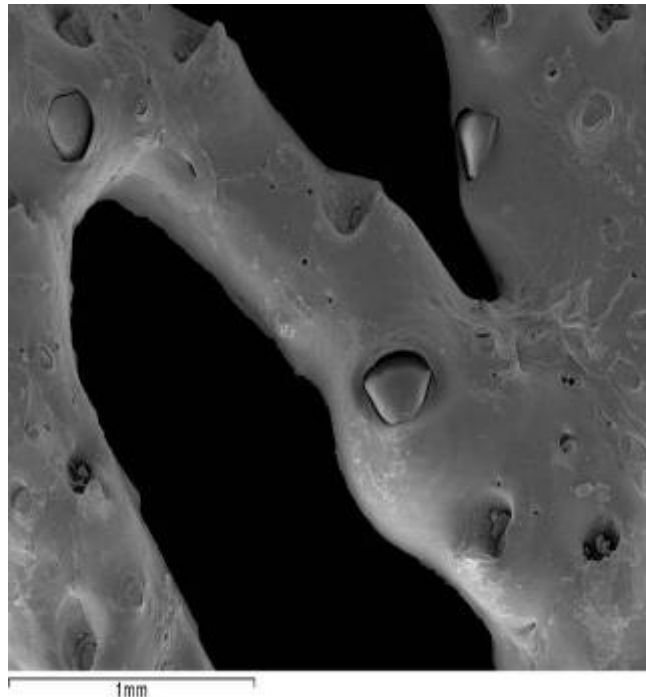
email addresses, and now the new upgraded College server does not recognise these addresses in incoming mail!

## New Member

**Blanca Figuerola.** I'm PhD student of the University of Barcelona (Department of Animal Biology) and I'm working on taxonomy and chemical ecology of Antarctic marine invertebrates (currently bryozoans) in ACTIQUIM-1 (2008-10) and 2 (2011-13) projects ([www.actiquim.cat](http://www.actiquim.cat)). These projects are led by Dr. Conxita Àvila, professor at the University of Barcelona, and various public research groups of Spain (University of Barcelona, Spanish Oceanography Institute of Gijón, Science Park of Barcelona) and private (PharmaMar S.A.U.) and abroad (University of Bonn-Germany, University of Alaska-USA) are involved in them.

The world of bryozoans is fascinating and I would continue to identify new Antarctic samples for my thesis (if anyone is interested in this, send me an email: [bfiguerola@hotmail.com](mailto:bfiguerola@hotmail.com) / [bfiguerola@ub.edu](mailto:bfiguerola@ub.edu)). My first IBA Conference in Kiel was a fantastic experience and I would like to congratulate all participants and to thank the help of some of them! I hope to see you at the next 10th Larwood Meeting 2011 (Spain).

This photo of a group of gigantic spherical avicularia of new Antarctic species of *Reteporella* was presented in Kiel.



Photos from the Kiel conferences can be viewed at:

<http://picasaweb.google.com/bfiguerola/IBA2010?authkey=Gv1sRgCMbRyYWFpZTOJw#>

## Remembering Olgerts Karklins

Alan Cheetham

Olgerts Karklins was one of a number of geologists who left their native Baltic countries—in his case Latvia—in the aftermath of the Second World War. Like Heinrich Toots, an Estonian, Ollie found his way to New York City where he attended Columbia University. Heinrich and I overlapped at Columbia in the early 1950s when we were the only bryozoan students among the multitude of paleontologists-to-be studying with Norman Newell, John Imbrie, Edwin Colbert, and George Gaylord Simpson. However, Ollie's time at Columbia came later, delayed by his working in British coal mines before settling in the United States. For his graduate work Ollie went on to the University of Minnesota, where his bryozoan studies were mentored by Fred Swain.

After completing his dissertation on Ordovician Bryozoa from Minnesota (Karklins, 1969), Ollie was hired by the U. S. Geological Survey and assigned to the Paleontology and Stratigraphy Branch housed in the Smithsonian's Natural History Building on the Washington Mall. His office was next to mine—on the second floor of the East Wing—when I came to the Smithsonian in 1966. Together with Rich Boardman, we formed the nucleus of a Bryozoa group, usually including a number of resident grad students and post-docs, who held frequent seminars on our work in progress, especially in the late 1960s and 1970s. The group dissolved in the mid-1980s with Ollie's transfer to the headquarters of the U. S. G. S. in Reston, Virginia, and Rich's retirement. In the photo below taken in the spring of 1969, members of the group (clockwise around the table from the left: Rich Boardman, Ozzie Nye, Alan Cheetham, Raman Singh, Ollie Karklins, and Gary Gautier) were intent on a presentation by Pat Cook, visiting from London.



Ollie's work with the U. S. G. S. was initially part of a joint program with the Kentucky Geological Survey to produce a detailed geologic map of the entire state of Kentucky, the first state in which such a project was undertaken on the basis of new research. During the period from 1960 to 1978, more than 250 geologists from the two agencies participated in the program. Ollie's contributions were on the systematics and biostratigraphy of Ordovician bryozoans in Kentucky and Tennessee and include major works published as memoirs of the Paleontological Society and a professional paper of the U. S. G. S. (Karklins 1983a, 1984, 1985), as well as shorter papers and U. S. G. S. open file reports. Later, Ollie undertook similar studies of Paleozoic bryozoans in other areas of the United States as far west as Utah (Karklins, 1986). In addition, he was a contributing author of the revision of Part G of the Treatise on Invertebrate Paleontology and, with Dan Blake and John Utgaard (also former members of the Smithsonian Bryozoa group), was one of the first authors to complete systematic descriptions for the major taxa for which they were responsible (Karklins, 1983b).

Ollie's transfer to Virginia also involved a reassignment in his responsibilities from bryozoans to conodonts, on which he published a number of contributions before his retirement in the late 1980s. While working on bryozoans, he participated in IBA conferences in 1968 (Milan), 1971 (Durham), 1977 (Woods Hole) and 1983 (Vienna); the proceedings volume for the Milan meeting includes one of his papers (International Bryozoology Association, 2010). In 1983 his wife, Vija, accompanied him to the meeting in Vienna.

Thanks to JoAnn Sanner for the photo and help with the references.

## References

- International Bryozoology Association, 2010. Meetings of the IBA Conferences, First Conference, 1968, Milan, Italy. <[http://bryozoa.net/iba/meetings/iba\\_conf\\_01.html](http://bryozoa.net/iba/meetings/iba_conf_01.html)>
- Karklins, O. L. 1969. The cryptostome Bryozoa from the Middle Ordovician Decorah Shale, Minnesota. Minnesota Geological Survey, Special Publications Series, SP-6, 121 p.
- Karklins, O. L. 1983a. Ptilodictyoid Cryptostomata Bryozoa from the Middle and Upper Ordovician rocks of central Kentucky. Paleontological Society Memoir 14, Journal of Paleontology 57(1) supplement, 131 p.
- Karklins, O. L. 1983b. Introduction to the Suborder Ptilodictyina. Systematic descriptions for the Suborder Ptilodictyina. P. 453-529 in R. S. Boardman, A. H. Cheetham, D. B. Blake, John Utgaard, O. L. Karklins, P. L. Cook, P. A. Sandberg, Geneviève Lutaud, and T. S. Wood, Treatise on Invertebrate Paleontology, Part G Bryozoa Revised, v. 1, Introduction, Order Cystoporata, Order Cryptostomata. Boulder, Colorado and Lawrence, Kansas: Geological Society of America and the University of Kansas.
- Karklins, O. L. 1984. Trepostome and cystoporata bryozoans from the Lexington Limestone and the Clays Ferry Formation (Middle and Upper Ordovician) of Kentucky. United States Geological Survey Professional Paper 1066-I, 102 p.

Karklins, O. L. 1985. Bryozoans from the Murfreesboro and Pierce Limestones (early Black Riveran, Middle Ordovician), Stones River Group, of central Tennessee. Paleontological Society Memoir 15, Journal of Paleontology 59(3) supplement, 42 p.

Karklins, O. L. 1986. Chesterian (Late Mississippian) Bryozoans from the upper Chainman Shale and the lowermost Ely Limestone of western Utah. Paleontological Society Memoir 17, Journal of Paleontology 60(1) supplement, 48 p.

## New International Acronym for NHM, London

Mary Spencer Jones alerts IBA members that if you are citing any Natural History Museum specimens in any publications, then you will need to use NHMUK as a prefix to registration numbers rather than the old BMNH, BM(NH) or NHM. This institutional acronym has been registered with the Registry of Biological Repositories and is now regarded as the official prefix for the museum. This does not affect any email addresses for museum staff.

## 16<sup>th</sup> IBA Conference Dates

Here are some important dates for the next IBA Conference in 2013 hosted by the University of Catania and organized by Antonietta Rosso:

- Preconference field-trip: Sicily, 3<sup>rd</sup> - 8<sup>th</sup> June 2013 (arrive in Catania on June 2<sup>nd</sup> Sunday afternoon);
- Workshop day: Sunday 9<sup>th</sup> June 2013;
- Conference: Catania: Monday 10<sup>th</sup> to Saturday 15<sup>th</sup>, including a one day mid-conference field trip;
- Transfer from Sicily to North Italy (Verona airport): Sunday 16<sup>th</sup> June 2013;
- Post-conference field-trip: Veneto, 17<sup>th</sup> -22<sup>nd</sup> June 2013.

# Mapping Miocene Bryozoans

Kamil Zágoršek

This year was a second year of the large 5-year project: “Shallow water ecosystems from the Middle Miocene of the Central Paratethys: Succession and interactions between inorganic and organic elements of the ecosystems.” The main aim of the project is to map and compare Miocene bryozoans and other fauna among Carpathians region. We have drilled this year 5 shallow boreholes near Rebešovice, Židlochovice, Služín, Oslavany and Hluchov where natural outcrops disappeared and visited sections in Bulgaria (see photos below).



(1) Drilling in Rebešovice was very complicated due to the overgrowing vegetation and therefore we need help of field vehicle (museum's Toyota Land Cruiser). (2) Part of the cores from borehole Rebešovice with visible transition from shallower marl of bryoevent (right part – the white dots are colonies of celleporids) to deeper clayish basinal sediment (left part). (3) Drilling in old quarry near Židlochovice on margin of the Carpathian Foredeep showing the deep part of the basin behind. (4) Showing part of the core from borehole Židlochovice

with transition from deeper marl of bryoevent (right) to very shallow algal limestone (left). (5) The drilling machine in field near Hluchov. We have drilled here 22 m full core borehole with many Bryozoa. (6) Section Pleven with Miocene Bryozoa together with Bulgarian colleagues guided us in the field.

In the project budget, there are yearly about 1000 Euro for inviting scientists to help us with the project. Therefore, I would like to invite you (any IBA member) to come to Prague and help me with this study. Looking forward to see you here...

## *10<sup>th</sup> Larwood Meeting 2011*

Organized by

**Departamento de Zooloxía e Antropoloxía Física  
Universidade de Santiago de Compostela  
Spain**



**Second Circular**



**Thursday 5<sup>th</sup> – Saturday 7<sup>th</sup> May 2011  
Santiago de Compostela, Spain**

\*\*\*\*\*

**Registration by 14<sup>th</sup> February 2011 to:**

**Javier Souto**, Departamento de Zooloxía e Antropoloxía Física, Universidade de Santiago de Compostela. [javier.souto@usc.es](mailto:javier.souto@usc.es). Tel: office: +34 881813267 or +34 881813341. mobile: +34 699200436.

**Oscar Reverter-Gil**, Departamento de Zooloxía e Antropoloxía Física, Universidade de Santiago de Compostela. [oscar.reverter@usc.es](mailto:oscar.reverter@usc.es). Mobile: +34 647578487.

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### **Accommodation**

A list of recommended hotels will be sent to participants later, but you can find yourself some information on the web site: <http://www.santiagoturismo.com/>

### **Fee**

Regular fee: 50 €. Students: 30 €. To be paid at the conference.

### **Planning**

May					
Thursday 5 <sup>th</sup>		Friday 6 <sup>th</sup>		Saturday 7 <sup>th</sup>	
9-9:30	<i>Registration</i>	9-11	Talks	9h-18h	Excursion to the Marine Biology Station in the Ría de Ferrol
9:30-11	Talks				
11-11:30	<i>Coffee break</i>	11-11:30	<i>Coffee break</i>		
11:30-13	Talks	11:30-13	Talks		
13-14:30	<i>Lunch</i>	13-14:30	<i>Lunch</i>		
14:30-16	Talks				
16-17	<i>Coffee break and Posters</i>	Time to be fixed	Visit to the old town and to the roof of the Cathedral		
17-18:30	Talks	21	<i>Dinner</i>		

**Abstracts**  
Please remember that the Abstracts

must be submitted as .doc files by 20<sup>th</sup> March 2011. They should be not longer than one page and written using the following format:

*Title:* In capitals and bold. Font: Times New Roman. Size: 14 pt.

*Authors:* Font: Times New Roman. Size: 12 pt.

*Addresses:* In italics. Font: Times New Roman. Size: 12 pt.

*Text:* Font: Times New Roman. Size: 12 pt. Spacing 1.5.

### **Posters**

Vertical size: max. 100 cm. Horizontal size: max. 70 cm.

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More details will appear on: <http://www.usc.es/congresos/larwood>

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# Fellowship Opportunities

The following information was provided by Andrew Ostrovsky

## [JSPS-UNU Fellowship](#)

The JSPS-UNU Postdoctoral Fellowship Programme was launched in 2002 and is jointly organised by UNU and Japan Society for the Promotion of Science (JSPS). It is designed to provide promising, highly qualified, young researchers the opportunity to conduct advanced research relevant to the main thematic focus of UNU-IAS (Institute of Advanced Studies), located in Yokohama, or UNU-ISP (Institute for Sustainability and Peace), located in Tokyo, and in co-operation with their host researchers at Japanese universities and research institutions. UNU acts as the nominating authority for the JSPS-UNU Programme, and UNU-IAS administers the programme on behalf of UNU in the nominating process.

This fellowship is aimed at candidates who have completed their PhD in the past six years and also have professional and/or research experience.

## [UNU-IAS Postdoctoral Fellowship](#)

In April 1996, the UN Secretary-General inaugurated UNU-IAS as an in-house community of scholars mandated to research issues located at the intersection between societal and natural systems. The Institute's mission is to advance knowledge and to promote learning for policy making to meet the challenges of sustainable development. As an advanced studies institute, UNU-IAS is forward-looking and multidisciplinary.

Since October 2000, UNU-IAS offers Postdoctoral Fellowships for recent PhD graduates to provide them with the opportunity to put the knowledge and expertise acquired during their doctoral research to practical policy-relevant use. So far, over 40 Fellows from some 20 countries have passed through the Postdoctoral Fellowship Programme. Of those completing the programme about one third have been women, and developing country participants have outnumbered developed country participants.

Around two Postdoctoral Fellowships are awarded each year for a period of 12 months, starting in September.

## Scamming the IBA

*Several IBA members have received fictitious emails like the following. Fortunately, as far as we know, no one has taken the bait. As a precaution, Rolf Schmidt has removed all traces of member email addresses from the IBA website.*

**Subject:** My trip to Spain

**Date:** Thu, 28 Oct 2010 02:54:08 -0700 (PDT)

**From:** (A well known IBA colleague, name withheld – ed)

Hope you get this on time. Sorry I didn't inform you about my trip to Spain for a program. I am having some difficulties here because I misplaced my wallet on my way to the hotel which contained some cash, credit cards and few other valuables. Presently, my passport and personal belongings are been held down by the hotel management pending when I make payment.

I will like you to assist me with a loan of 1,415 euro to sort-out my hotel bills and to get myself back home. I've been to the embassy and Police, but they are not responding to the matter effectively, I will appreciate whatever you can afford to assist me with. I'll refund the money back to you as soon as I return. Let me know if you can be of any help ASAP.

I currently don't have a phone where I can be reached. I am so confused right now.

Please you can send it through Western Union Money Transfer so I will get it immediately its sent, I want you to please help me transfer the money as soon as possible. Here is the details you need for the transfer below,

Receivers Name: (IBA member's name withheld)

Address: 153 Rambla Del Raval, Barcelona, 08001

Country- Spain

Please get back to me as soon as you have the money sent, once you are done with the transfer just help me to scan a copy of the receipt given to you by Western Union or help me to write out the Money Transfer Control Number (MTCN). Thank you.

With a lot of love,  
(First name)

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## Featured Journal Cover

*Editor's Note: This page continues a series highlighting the covers of journals or magazines featuring bryozoans.*

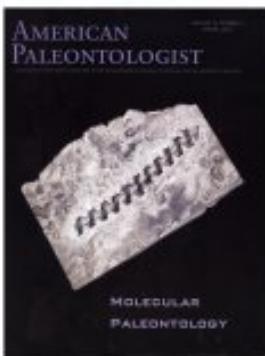
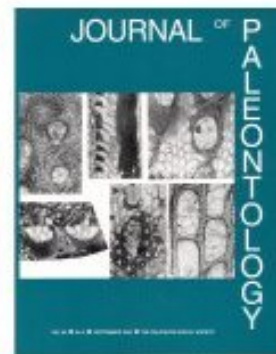
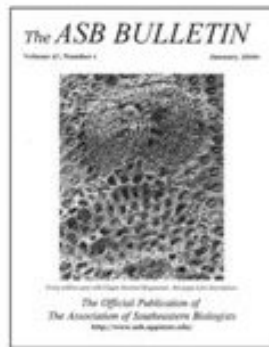
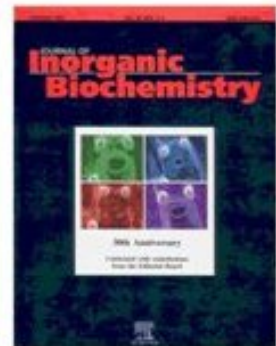
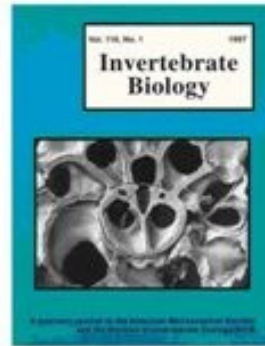
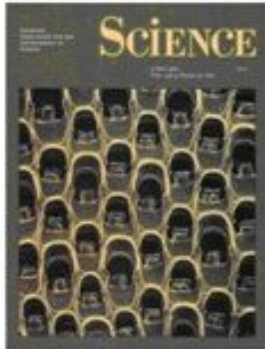


The cover legend reads: "Young colony of the cheilostome bryozoan *Cribrilina annulata* (Fabricius, 1870) on red alga, White Sea."

The photo derives from an article in this volume:

Yagunova, E.B. and A.N Ostrovsky (2008). Encrusting bryozoan colonies on stones and algae: variability of zooidal size and its possible consequences. *Journal of the Marine Biological Association of the United Kingdom* 88(5): 901-908.

*Previous covers in this series: (next page)*



# Upcoming Meetings and Conferences

## **Bryozoology**

10<sup>th</sup> Annual Larwood Meeting  
5-7 May 2011  
Universidade de Santiago de Compostela  
<http://www.usc.es/congresos/larwood>

Australarwood 2011  
8-9 March 2011  
University of Canterbury Field Station at Kaikoura, New Zealand  
[catherine.reid@canterbury.ac.nz](mailto:catherine.reid@canterbury.ac.nz)

16<sup>th</sup> IBA Conference  
10-15 June, 2013, Catania, Italy  
(Website not yet announced)

## **Paleontology**

American Geophysical Union  
2011 Fall Meeting  
5-9 December, 2011, San Francisco, CA.  
<http://www.agu.org/meetings/>

American Geophysical Union  
2010 Ocean Sciences Meeting  
20-24 February 2012, Salt Lake City, Utah USA

The Palaeontological Association  
55th Annual Meeting 2010, Ghent  
(Not yet announced)

Tenth North American Paleontological Convention  
Summer, 2013, (Venue not yet announced)

Geological Society of America Annual Meeting  
9-12 October, Minneapolis, Minnesota USA  
<http://www.geosociety.org/meetings/2011/>

## **Biology**

Aquatic Invasive Species, 18<sup>th</sup> International Conference,  
(Not yet announced)  
[http://www.icaiss.org/pdf/1st\\_annc\\_17th.pdf](http://www.icaiss.org/pdf/1st_annc_17th.pdf)

12<sup>th</sup> International Coral Reef Symposium  
July 9-13, 2012, Cairns, Australia.  
(Website not yet functional)

Ecological Society of America, 96th Annual Meeting  
August 7-12, 2011, Austin, TX..  
<http://www.esa.org/meetings/>

International Council for the Exploration of the Sea  
2010 Annual Science Conference  
19-23 September, 2011 Gdansk, Poland  
<http://www.ices.dk/iceswork/asc/2011/index.asp>

International Society of Limnology  
Various meetings and workshops  
<http://www.limnology.org/links.shtml#meetings>

## Recent Publications

The following list includes works either published since the previous issue of the *IBA Bulletin* or else missed by previous issues. As always, members are encouraged to support future compilations by continuing to send complete citations to the IBA secretary at any time. Reprints will be gratefully received by the IBA archivist, Mary Spencer Jones.

- Ben Ismail, D., O.K. Ben Hassine, G. Mascarell, and J.-L. d'Hondt. 2010. First record of the Entoprocta *Pedicellina hispida* Ryland, 1965 in the Mediterranean Sea (Tunisia coastline). *Graellsia* [enlínea], manuscrito aceptado, doi:10.3989/graelisia.2010.v66.022
- Ben Ismail, D., O.K. Ben Hassine, G. Mascarell, and J.-L. d'Hondt. 2009. Description d'un nouveau Bryozoaire (Cheilostomes) de Méditerranée Occidentale (Tunisie): *Parellisina curvirostris raibauti*, subsp. nov. Bull. Soc. Zool. Fr. 134 (3-4): 313-319.
- Braga Gp. & Finotti F. 2010. Updating of Bibliography on Phylum Bryozoa (Fossil and Living organisms). Annali del Museo civico- Rovereto, 25 (2009): 251-286.
- Clark, Nicola, Mark Williams, Beth Okamura, John Smellie, Anna Nelson, Tanya Knowles, Paul Taylor, Melanie Leng, Jan Zalasiewics, and Alan Haywood. 2010. Early Pliocene Weddell Sea seasonality determined from bryozoans. Stratigraphy 7(2-3): 199-206.
- Carrera, M. & Ernst, A. (2010): Darriwilian bryozoans from the San Juan Formation (Ordovician), Argentine Precordillera. – Ameghiniana, **47** (3): 343-354.
- Denisenko N.V. New species and new records of rare ctenostome bryozoans of the genus ALCYONIDIUM in the Russian Arctic Seas"//Труды ЗИН РАН. Т. 313 (4), 2009. С. 419-426.
- Denisenko Nina V. The description and prediction of benthic biodiversity in high arctic and freshwater-dominated marine areas: The southern Onega Bay (the White Sea)// Marine Pollution Bulletin. 2010. V. 61. P. 224-233.
- Dulai, A., Moissette, P. & Müller, P.M. (2010). Badenian (Middle Miocene) bryozoan fauna of Hungary; basic data of localities and samples. Fragmenta Palaeontologica Hungarica 28: 33–69.
- Ernst, A. (2010): Trepostome bryozoans from the Lower - Middle Devonian of NW Spain. – Rivista Italiana di Paleontologia e Stratigrafia, **116** (3): 283-308.
- Ernst, A. & Rodríguez, S. (2010): Bryozoan fauna from the oolitic limestone near Pajarejos, SW Spain. – Revista española de paleontología, **25** (2): 81-86.
- Gordon, Dennis P., Jennifer Beaumont, Alison MacDiarmid, Donald A. Robertson, and Shane T. Ahyong. 2010. Marine Biodiversity of *Aotearoa* New Zealand. PLoS ONE 5(8): 1-17. [www.ploscollections.org/coml/marine\\_biodiversity](http://www.ploscollections.org/coml/marine_biodiversity).
- Gruhl, Alexander. 2010. Ultrastructure of mesoderm formation and development in *Membranipora membranacea* (Bryozoa: Cheilostomata). Zoomorphology 129(1): 45-60.
- Gruhl, Alexander. 2010. Neuromuscular system of the larva of *Fredericella sultana* (Bryozoa: Phylactolaemata). Zoologischer Anzeiger 249(3-4): 139-149
- Holcová, K. & Zágorský, K. (2008): Bryozoa, foraminifera and calcareous nannoplankton as environmental proxies of the “bryozoan event” in the Middle Miocene of the Central Paratethys (Czech Republic) Palaeogeography, Palaeoclimatology, Palaeoecology 267 (2008) 216–234.
- Jimenez-Scanches, A, Anstey, R. L., & Azanza, B. 2010. Description and phylogenetic analysis of *Iberostomata fombuenensis* new genus and species (Bryozoa, Ptilodictyina). Journal of Paleontology 84: 695-708.
- Knowles, T., M.J. Leng, M. Williams, P.D. Taylor, H. J. Sloane, and B. Okamura. 2010. Interpreting seawater temperature range using oxygen isotopes and zooid size variation in



- Pentapora foliacea* (Bryozoa). *Marine Biology* 157: 1171-1180. DOI 10.1007/s00227-010-1397-5.
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