



# International Meeting Biology & Conservation of Freshwater Bivalves Bragança, Portugal 4th-7th September 2012

## Provisional Programme

|        | Tuesday 4 <sup>th</sup> | Wednesday 5 <sup>th</sup>   | Thursday 6 <sup>th</sup>  | Friday 7 <sup>th</sup>          |
|--------|-------------------------|---|---|---------------------------------|
| 08:30h |                         | <b>Invited Speaker:</b> David Aldridge (GBR)<br>Managing mussel populations for the benefit of freshwater ecosystems  | <b>Invited Speaker:</b> Jurgen Geist (DEU)<br>Towards effective conservation management strategies of endangered freshwater mussels: The step-wise approach   | Social Programme<br>Field Trips |
| 09:00h |                         |   |   |                                 |
| 09:15h |                         | The invasive <i>Anodonta (Sinanodonta) woodiana</i> as an important resource subsidy<br><b>Bódis E, Tóth B &amp; Sousa R (HUN)</b>  | Temperature-dependent seasonal and annual larval production of Rhipidocotyle trematodes parasitizing freshwater mussel, <i>Anodonta anatina</i><br><b>Choo J &amp; Taskinen J (FIN)</b>   |                                 |
| 09:30h |                         | Data on development and collapse of invasive <i>Sinanodonta woodiana</i> (Bivalvia, Unionoida) populations in Hungary<br><b>Benkő-Kiss Á (HUN)</b>  | Conservation genomics of unionids: Insights gained from next generation sequencing of <i>Alasmidonta heterodon</i> , <i>A. varicosa</i> , and <i>Elliptio complanata</i><br><b>King T, Shallom J, Eackles M, Johnson R, Lubinski B, Printz J, Lellis W, Wicklow B &amp; Hallerman E (USA)</b> |                                 |
| 09:45h |                         | <i>Corbicula fluminea</i> invasion in Lake Maggiore (Italy): population dynamics and comparison of dietary overlap with native mussels<br><b>Riccardi N, Lauceri R, Guerrieri N, Kamburska L, Guarneri I, Cardeccia A, Ferin P, Boggero A &amp; Manca M (ITA)</b> | Phylogeography of French Unionids: Continental insularity and conservation in an age of global connections<br><b>Prié V, Puilandre N &amp; Bouchet P (FRA)</b>  |                                 |
| 10:00h | Secretariat opening     | Physical habitat of zebra mussel ( <i>Dreissena polymorpha</i> ) in the lower Ebro River (Northeastern Spain)<br><b>Sanz-Ronda F, López-Sáenz S &amp; Palau-Ibars A (ESP)</b>   | The genetic variation in different age and sex groups of freshwater pearl mussels ( <i>Hyriopsis cumingii</i> ) from two lakes in China revealed by microsatellites<br><b>Bai Z, Ming L &amp; Li J (CHN)</b>  |                                 |
| 10:15h |                         | The Asian invasive bivalve <i>Corbicula fluminea</i> in Minho and Lima estuaries: a molecular approach<br><b>Gomes C, Vasconcelos V, Guilhermino L &amp; Antunes A (PRT)</b>  | Evolution of Asymmetrical Larvae in Freshwater Mussels (Bivalvia:Unionidae)<br><b>Pfeiffer J &amp; Graf D (USA)</b>   |                                 |
| 10:30h |                         | Coffee break  | Coffee break  |                                 |
| 11:00h |                         | European guidance on the environmental requirements of freshwater pearl mussel ( <i>Margaritifera margaritifera</i> L.)<br><b>Boon P (SCT)</b>  | Shell calcification on Freshwater Bivalves: An Overview<br><b>Machado J &amp; Lopes-Lima M (PRT)</b>  |                                 |
| 11:15h |                         | The thick shelled river mussel ( <i>Unio crassus</i> ) brings LIFE+ back to rivers<br><b>Bergengren J, Gezelius L, Eriksson M, Lirás V, Olsson I, Asp T, Zinko U, Herngren H, Proschwitz von T, Lundberg S &amp; Österling M (SWE)</b>                            | The Austrian Freshwater Pearl Mussel Conservation Project<br><b>Gumpinger C, Scheder C &amp; Csar D (AUT)</b>   |                                 |
| 11:30h |                         | Ecology and conservation of the freshwater pearl mussel ( <i>Margaritifera margaritifera</i> , Margaritiferidae) in the North-West of Russia<br><b>Bespalaja Y, Bolotov I, Makhrov A &amp; Aspholm P (RUS)</b>  | New perspectives for the conservation of the freshwater pearl mussel <i>Margaritifera margaritifera</i> in Castilla y Leon (NW Spain)<br><b>Santos P, Peñín E &amp; Palacios J (ESP)</b>  |                                 |
| 11:45h |                         | How to design a database to be used effectively as a tool for conservation of freshwater mussels? The stones' way in the Central part of Brazil<br><b>Callil C &amp; Mansur M (BRA)</b>   | Reproduction biology of Indian freshwater pearl mussel <i>Lamellidens marginalis</i> (Lamarck) from Neriya river in the Western Ghats, India<br><b>Ramesha M &amp; Sophia S (IND)</b>   |                                 |
| 12:00h |                         | Conservation of <i>Margaritifera margaritifera</i> (Linnaeus, 1758) in the Armorican Massif (Brittany and Lower-Normandy, France)<br><b>Capoulade M, Dury P, Pasco P-Y &amp; Ribeiro M (FRA)</b>  | Anthropogenic changes of brown trout <i>Salmo trutta</i> and the impact on its parasitic mussel <i>Margaritifera margaritifera</i><br><b>Österling M &amp; Söderberg H (SWE)</b>  |                                 |
| 12:15h |                         | The relationship between endangered thick-shelled river mussel ( <i>Unio crassus</i> ) and its host fishes<br><b>Taeubert J &amp; Geist J (DEU)</b>   | Rediscovery of the freshwater pearl mussel ( <i>Margaritifera margaritifera</i> ) populations within the territory of the Baltic Sea basin in Russia<br><b>Popov I &amp; Ostrovsky A (RUS)</b>  |                                 |
| 12:30h |                         | Lunch   | Lunch   |                                 |

|        | Tuesday 4 <sup>th</sup>  | Wednesday 5 <sup>th</sup>  | Thursday 6 <sup>th</sup>   | Friday 7 <sup>th</sup>                            |
|--------|--|--|--|---|
| 13:45h | <b>Opening Session</b>   |  |  |   |
| 14:00h | <b>Invited Speaker:</b> Chris Barnhart (USA)<br>Host-specificity of Unionoid mussels: an arms race, or just keeping pace?  | <b>Invited Speaker:</b> Rafael Araujo (ESP)<br>Knowing and conserving the European (and North African) naiads. Reflections from the South of Europe  | <b>Invited Speaker:</b> Arthur Bogan (USA)<br>Phylogeny of the Unionida: A current assessment  | <b>Social Programme</b><br><br><b>Field Trips</b> |
| 14:45h | A critical role of population level differences in host compatibility of freshwater mussels: <i>Unio crassus</i> host matching in fragmented river<br><b>Douda K, Kubíková L &amp; Horký P (CZE)</b>   | Biogeography and conservation of freshwater mussels (Bivalvia: Unionidae) in Texas: drivers of diversity and threats<br><b>Burlakova L, Karatayev A (USA)</b>  | Conservation Status of Freshwater Bivalves in South America: State of the Art, Perspectives and Future Challenges<br><b>Dreher-Mansur M, Pereira D, Pimpão D, Callil C, Ituarte C, Parada E, Peredo S, Darrigran G, Scarabino F, Clavijo C, Lara G, Miyahira I (BRA)</b> |   |
| 15:00h | Freshwater Mussels of a Western American River Basin - a Prehistoric Perspective<br><b>Tait C (USA)</b>  | The freshwater pearl mussel ( <i>Margaritifera margaritifera</i> ) in Bavaria – population status, conservation efforts and challenges<br><b>Denic M &amp; Geist J (DEU)</b>   | Juvenile <i>Margaritifera margaritifera</i> (Bivalvia, Unionoida) – the survival of the cleanest. Sedimentation studies on a selection of rivers<br><b>Moorkens E &amp; Killeen I (IRL)</b>  |   |
| 15:15h | The actual map of <i>Margaritifera margaritifera</i> (L.) in Galicia (NW Iberian Peninsula): A critical area for conservation of freshwater pearl mussel in the south of Europe<br><b>Lois S, Ondina P, Outeiro A, Amaro R &amp; San Miguel E (ESP)</b>                | The first millimetre – Rearing of juvenile Freshwater Pearl Mussels ( <i>Margaritifera margaritifera</i> ) in plastic boxes<br><b>Thielen F, Eybe T, Muller T, Bohn T &amp; Sures B (LUX)</b>  | Influence of Difference Environment on Growth of Freshwater mussel, <i>Hyriopsis (Hyriopsis) bialatus</i><br><b>Kovitvadhi S &amp; Kovitvadhi U (THA)</b>  |   |
| 15:30h | Freshwater mussels in western North America: contrasting phylogeographies in a common landscape<br><b>Mock K, Brim Box J, Chong J, Howard J &amp; Furnish J (USA)</b>  | Conservation of freshwater bivalves in Uruguay: opportunities and challenges<br><b>Clavijo C, Scarabino F, Carranza A, Martinez G &amp; Soutullo A (URY)</b>   | Reproductive cycle and <i>in vitro</i> culture of freshwater mussel glochidia (Bivalvia: Unionidae)<br><b>Kovitvadhi U &amp; Kovitvadhi S (THA)</b>  |   |
| 15:45h | Use of distance sampling to estimate population size and density of the Texas hornshell ( <i>Popenaias popeii</i> , Lea 1857) in the Black River, NM, USA<br><b>Inoue K, Levine T, Lang B &amp; Berg D (USA)</b>   | Identification of the factors responsible for the decline of the Freshwater Pearl Mussel ( <i>Margaritifera margaritifera</i> ) in the North Tyne, North-East England, in order to develop a restoration plan for the species.<br><b>Gosselin M-P, Lavictoire L &amp; Sweeting R (GBR)</b> | Growth and survival of <i>Margaritifera margaritifera</i> glochidia on host fish gills and of juvenile mussels in climate chambers<br><b>Scheder C, Lerchegger B, Jung M, Csar D &amp; Gumpinger C (AUT)</b>   |   |
| 16:00h | <b>Coffee break</b>  | <b>Coffee break</b>  | <b>Coffee break</b>  |   |
| 16:30h | <b>Invited Speaker:</b> Mary Seddon (GBR)<br>Update on the status of the Global Freshwater Mollusc Assessment<br><b>Seddon M, Darwall W, Bohn M, Allen D &amp; Smith K</b>   | Liming saves the Freshwater Pearl Mussel <i>Margaritifera margaritifera</i> (L.) from acidification<br><b>Henrikson L &amp; Söderberg H (SWE)</b>  | Type material of <i>Diplodon ellipticus</i> (Spix in Wagner, 1827) (Unionoida, Hyriidae) rediscovered<br><b>Miyahira I, Mansur M &amp; Santos S (BRA)</b>  |   |
| 16:45h |  | Monitoring survival and growth of laboratory-cultured endangered mussels, <i>Epioblasma capsaeformis</i> and <i>E. brevidens</i> , released into the Powell River, Tennessee, USA<br><b>Hua D, Neves R &amp; Jiao Y (USA)</b>  | New aspects and implications for the conservation of the thick-shelled river mussel ( <i>Unio crassus</i> )<br><b>Stoeckl K &amp; Geist J (DEU)</b>  |   |
| 17:00h |  | Monitoring freshwater pearl mussels, practicalities and interpretation<br><b>Killeen I &amp; Moorkens E (IRL)</b>  | Captive rearing of the freshwater pear mussel <i>Margaritifera margaritifera</i> in the UK – Lessons learned<br><b>Sweeting R &amp; Lavictoire L (GBR)</b>   |   |
| 17:15h | Comparing two measurement methods for inter- and intraspecific variations of year-class cohorts of young Freshwater Pearl Mussel ( <i>Margaritifera margaritifera</i> ) in three rivers in the Pasvik watershed catchment in Northern Norway<br><b>Aspholm P (NOR)</b> | Host specificity in freshwater pearl mussel <i>Margaritifera margaritifera</i> populations in Norway – experimental studies<br><b>Larsen B, Saksgård R &amp; Forseth T (NOR)</b>   | Within-river spatio-temporal relationship between the freshwater pearl mussel <i>Margaritifera margaritifera</i> and its fish host <i>Salmo trutta</i><br><b>Taskinen J, Ranta M, Väilä S, Salonen J &amp; Oulasvirta P (FIN)</b>  |   |
| 17:30h | Molecular species identification of European and Thai freshwater mussels (Unionoida)<br><b>Zieritz A, Geist J, Kuehn R, Gum B, Vannarattanarat S, Kanchanaketu T, Kovitvadhi U, Hongtrakul V &amp; Kovitvadhi S (AUT)</b>  | Fish Tales and Mussels: Role Reversal in a Fish-Mussel Symbiosis<br><b>Dimock R &amp; Aldridge D (USA)</b>   | Behavioural and physiological impacts of freshwater mussel glochidia on juvenile brown trout intermediate hosts<br><b>Thomas G &amp; Garcia de Leaniz C (WLS)</b>  |   |
| 17:45h | Spatial -Temporal Dynamics of a Freshwater Mussel Unispecific Bed. Effects on Benthic Macroinvertebrate Assemblages<br><b>Lara G, Parada E &amp; Peredo S (CHL)</b>  | Standard Methods for Evaluating Dam Impacts on Freshwater Mussels<br><b>Reis J, Rosa P, Martinez A, Menéndez D &amp; Malveiro S (PRT)</b>  | Modern conditions of freshwater pearl mussel <i>Margaritifera margaritifera</i> (L., 1758) populations in loose floating rivers of the basin of the White Sea south coast (North-west of Russia)<br><b>Vikhrev I, Bolotov I &amp; Makhrov A (RUS)</b>                    |   |
| 18:00h | Long-term changes in unionid assemblages in the Rio Grande, one of the World's top 10 Rivers at Risk<br><b>Karatayev A, Miller T &amp; Burlakova L (USA)</b>   | Novel approach for stimulation of the freshwater mussel <i>Lamellidens corrianus</i> (Lea, 1834) to release glochidia larvae<br><b>Yusufzai S, Singha H, Shirdhankara M &amp; Lende S (IND)</b>  | Allometry and population ecology of the Indian freshwater pearl mussel (Bivalvia: Unionida) <i>Lamellidens marginalis</i> (Lamarck) from the river Neriya in the Western Ghats, India<br><b>Ramesha M (IND)</b>  |   |
| 18:15h | Development of captive breeding protocols for the critically endangered freshwater pearl mussel <i>Margaritifera margaritifera</i> : Impacts of substrate<br><b>Lavictoire L, Moorkens L, Ramsey A, Sinclair B &amp; Sweeting R (GBR)</b>                              | Distribution, biology, and life cycle of Unionidae species In Tunisia<br><b>Khalloufi N &amp; Boumaïza M (TUN)</b>   |  |   |
| 18:30h | <b>Invited Speaker:</b> Dave Strayer (USA)<br>An exploration of selected aspects of the relationships between nutrients and freshwater mussels (Unionoida)   | <b>Poster Session</b>  |  |   |
| 20:00h | <b>Welcome "Ice Breaker" cocktail</b>  |  |  |   |
|        |  |  |  | <b>Conference Dinner</b>                          |



## Poster presentations

Molecular detoxification - a powerful resource to environmental adaptation and survival in Bivalves  
**Almeida D, Vasconcelos V, Antunes A (PRT)**

LIFE11 NAT/LU/857 Restoration of *Unio crassus* rivers in the luxemburgish Ardennes: a summary description of a new project 2012-2018  
**Arendt A, Thielen F (LUX)**

Origin and Routes of Expansion of Freshwater Pearl Mussels (*Margaritifera*)  
**Artamonova V, Bolotov I, Klishko O, Bespalaja Y, Voroshilova I, Makhrov A & Frolov A (RUS)**

Corrosion rates in shells from dead Freshwater Pearl Mussel (*Margaritifera margaritifera*) from the Pasvik watershed catchment in Northern Norway  
**Aspholm P (NOR)**

Changes of some mussel populations in Hungary  
**Benkő-Kiss Á (HUN)**

The thick shelled river mussel (*Unio crassus*) brings LIFE+ back to rivers  
**Bergengren J, Gezelius L, Eriksson M, Lirås V, Olsson I, Asp T, Zinko U, Herngren H, Proschwitz von T, Lundberg S & Österling M (SWE)**

*Dreissena* impacts on Unionidae: general trends in North America and Europe and recent findings from Lake Erie  
**Burlakova L, Karatayev A, Zanatta D, Tulumello B, Lucy F & Mastitsky S (USA)**

Ecological correlates of the *Anodontites trapesialis* (Lamarck, 1819) (Mycetopodidae: Unionoida): The greater freshwater mussel of South America  
**Callil C, Surubim M, Colle A & Silva F (BRA)**

Conservation of *Margaritifera margaritifera* (Linnaeus, 1758) in the Armorican Massif (Brittany and Lower-Normandy, France)  
**Capoulade M, Dury P, Pasco P-Y & Ribeiro M (FRA)**

Critical reduction of *Cyanocyclas* geographic distribution in Uruguay: the shadow of *Corbicula*  
**Clavijo C (URY)**

The importance of close cooperation of engineering, water legislation and nature conservation for the protection of endangered mussel species  
**Csar D, Scheder C & Gumpinger C (AUT)**

Expression of HSP70 by *Utterbackia imbecillis* (Bivalvia: Unionidae) in Response to Copper  
**White M, Johnson E & Dimock R (USA)**

The biotic homogenisation of host communities as a threat to local affiliate species: a case study with *Anodonta anatina* (Unionidae)  
**Douda K, Lopes-Lima M, Hinzmann M, Machado J, Varandas S, Teixeira A & Sousa R (CZE)**

The relative importance of temperature and food to juvenile growth of *Margaritifera margaritifera* in its natural habitat  
**Douda K, Simon O, Dort B & Švanyga J (CZE)**

Influence of time of excystment on the breeding success of juvenile Freshwater Pearl Mussels (*Margaritifera margaritifera*)  
**Eybe T, Thielen F, Muller T, Bohn T & Sures B (LUX)**

Metabolism adjustment and resistance in the Asian clam *Corbicula fluminea* (Müller, 1774) to osmotic stress in the River Miño estuary  
**Ferreira N & Pardo I (ESP)**

CONBI: Biodiversity and Conservation of Bivalves –Ecogeographic, Genetic and Physiological information  
**Froufe E, Teixeira A, Lopes A, Cardoso J, Reis J, Machado J, Hinzmann M, Fonseca M, Araujo R, Sousa R, Sobral C, Varandas S, Cortes R & Lopes-Lima M**

Development of microsatellite markers and Multiplexed PCR for *Potomida littoralis*  
**Froufe E, Sobral C, Teixeira A, Lopes A, Sousa R, Varandas S & Lopes-Lima M**



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Isolation and characterization of microsatellite loci for *Unio delphinus* and cross-species amplification in other *Unio* species  
**Froufe E, Lopes A, Sobral C, Teixeira A, Sousa R, Varandas S, Araujo R, Machado J & Lopes-Lima M**

Evolution of parental care in Sphaeriinae (Bivalvia)  
**Fuentealba C, Núñez D & Hernández C (CHL)**

Impact of *in vitro* and *in vivo* exposure to cytostatics, 5-FU, etoposide and cisplatin on haemocytes of freshwater mussels *Unio pictorum* and *Unio tumidus* using alkaline comet assay  
**Gačić Z, Kolarević S, Sunjog K, Kračun M, Paunović M, Knežević-Vukčević J & Vuković-Gačić B (SRB)**

Resilience of adaptive responses in freshwater bivalves (Unionidae) from different populations  
**Gnatyshyna L, Falfushynska H & Stoliar O (UKR)**

Comparison of advanced culture methods for grow-out of freshwater mussels (BIVALVIA:UNIONIDAE) in a controlled environment  
**Hua D, Neves R & Jiao Y (USA)**

Biogeochemical diagnostics and estimation of ecological condition of freshwater pearl mussels (Margaritiferidae)  
**Klishko O & Bepalaya Y (RUS)**

Monitoring of DNA damage in haemocytes of freshwater mussel *Sinanodonta woodiana* sampled from the Velika Morava River in Serbia with the comet assay  
**Kolarević S, Knežević-Vukčević J, Paunović M, Kračun M, Vasiljević B, Tomović J, Vuković-Gačić B & Gačić Z (SRB)**

Freshwater pearl mussel *Margaritifera margaritifera*: Host specificity and genetic variation in Norway  
**Larsen B & Karlsson S (NOR)**

Recovery of the freshwater pearl mussel *Margaritifera margaritifera* population in an acidified Norwegian river  
**Larsen B & Saksgård R (NOR)**

Captive rearing of the freshwater pear mussel *Margaritifera margaritifera* in the UK  
**Lavictoire L & Sweeting R (GBR)**

Portuguese Naiads Life History Traits: Reproductive Cycle and Host Fish Determination  
**Lopes-Lima M, Hinzmann M, Sousa R, Varandas S, Machado J, Teixeira A**

The thick-shelled river mussel (*Unio crassus* Philipsson, 1788) in Sweden: Distribution, ecology, status, threats and conservation  
**Lundberg S, von Proschwitz T & Bergengren J (SWE)**

The unionoid freshwater mussels of Sweden, status and distribution  
**Lundberg S, von Proschwitz T, Bergengren J**

Brooding strategies of *Mytilopsis* from the Amazon River (Dreissenidae)  
**Dreher-Mansur M, Bergonci P & Figueiredo G (BRA)**

Molecular adaptations of indigenous and non-indigenous bivalve species to cyanotoxins: the role of glutathione S-transferases  
**Martins J, Campos A & Vasconcelos V (PRT)**

Practical implementation of freshwater pearl mussel measures in the Republic of Ireland and Northern Ireland  
**Moorkens E, McGee M, Killeen I, McNally T, Glasgow G & Downes S (IRL)**

Assessing the morphological variability of *Unio delphinus* Spengler in the Guadiana basin (SW-Iberian Peninsula, Europe) through geometric morphometric analyses  
**Morais P, Rufino M, Reis J (PRT)**

Captive breeding of the endangered pearl mussel *Margaritifera auricularia*. Large scale laboratory production of juveniles  
**Nakamura Antonacci K, Elbaile Pérez E, Muñoz Yanguas M, Catalá Roca C & Salinas Yuste C (ESP)**

Size-specific growth pattern of fresh water mussel *Margaritifera auricularia* in the Ebro river channels (Spain)  
**Nakamura Antonacci K, Muñoz Yanguas M, Elbaile Pérez E, Catalá Roca C & Salinas Yuste C (ESP)**





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The impact of land use on *Margaritifera margaritifera* and its host fish *Salmo trutta*  
**Österling M & Högberg J (SWE)**

Restoration of freshwater pearl mussel populations with new methods – an EU Interreg project in the northern Fennoscandia  
**Oulasvirta P, Aspholm P, Kangas M, Larsen B, Luhta P-L, Olofsson P & Taskinen J (FIN)**

Life Margal Ulla, recovery of *Margaritifera margaritifera* (L.) in the Ulla basin (Galicia, NW of Iberian Peninsula)  
**Ondina P, Lois S, Outeiro A, Mascato R, Bouza C, San Miguel E & Amaro R (ESP)**

Action plan for *Margaritifera margaritifera* in the Czech Republic (Central Europe) – concepts, targets and realization  
**Peltanová A, Hruška J, Simon O, Dort B, Spisar O, Bílý M, Kladiřová V, Patzenhauerová H & Douda K (CZE)**

Toxicity of *Bacillus thuringiensis* sv. *israelensis* on golden mussel, *Limnoperna fortunei* and on ecotoxicological indicators, *Pimephales pomelas* (Pisces), *Ceriodaphnia dubia* (Crustacea), and *Pseudokirchneriella subcaptata* (Algae)  
**Pereira D, Padula-Paz I, Sofia-Souza A, Tanaka-Suzuki M, Azevedo J, Dreher-Mansur M & Raya-Rodriguez M (BRA)**

Phylogenetic reanalysis confirms *Lamprotula* (Mollusca: Bivalvia: Unionidae) Polyphyly  
**Pfeiffer J & Graf D (USA)**

Comparative larval morphology of native and invasive freshwater bivalves species  
**Pinheiro-Santos C, Dreher-Mansur M, Mansur-Pimpão D, Aydos-Bergonci P & Figueiredo G (BRA)**

Electro fishing as a new method to find freshwater pearl mussel (*Margaritifera margaritifera*) populations  
**Salonen J, Taskinen J & Kangas M (FIN)**

The freshwater pearl mussel *Margaritifera margaritifera* (Linnaeus, 1758) and the thick shelled river mussel *Unio crassus* Philipsson, 1788 in Latvia: the conditions of populations and the survival possibilities  
**Rudzīte M & Rudzītis M (LVA)**

Phylogeography of *Unio crassus* in Central Europe  
**Sell J, Mioduchowska M, Kaczmarczyk A, Kilikowska A, Wysocka A, Zajac K, Zajac T, Trichkova T & Ivinskis P (POL)**

The situation of *Margaritifera margaritifera* in the Czech Republic – several successfully rejuvenated populations but the absence of natural reproduction  
**Simon O, Douda K, Peltanová A, Patzenhauerová H, Spisar O & Hruška J (CZE)**

Detritus from springs as a possible food source for freshwater pearl mussel (*Margaritifera margaritifera*): composition, quantity and origin  
**Simon O, Tichá K, Kubířová L, Douda K & Benářová A (CZE)**

The nervous system of the peppery furrow shell *Scrobicularia plana* (da Costa, 1778): unveiling morphological features by computer-assisted 3D reconstruction  
**Tantiwisawarui S, Kovitvadhi U, Pardal M, Maria M & Rocha E (THA)**

Growth of *Anodonta anatina* (Unionidae) in lakes differing by their productivity and physical & chemical properties of water  
**Taskinen J, Saarinen-Valta M & Suonpää A (FIN)**

Culturing *Unio crassus* (L.), first trials from Luxembourg  
**Thielen F, Eybe T & Muller T (LUX)**

Phylogeography and population genetics of the endangered freshwater pearl mussel (*Margaritifera margaritifera*) studied using mitochondrial DNA  
**Välilä S, Knott E & Taskinen J (FIN)**

The translocation of the thick-shelled river mussels (*Unio crassus*) from the area of a bridge improvement project in Finland  
**Valovirta I (FIN)**

Distribution and composition of freshwater fish communities in northeastern rivers (Douro basin, Portugal): Implications for mussel conservation strategies  
**Varandas S, Teixeira A, Lopes-Lima M, Cortes R & Sousa R (PRT)**

Distribution and composition of brown trout in river Paiva (Douro basin, Portugal) and its linkage with freshwater pearl mussel  
**Varandas S, Teixeira A, Lopes-Lima M, Cortes R & Sousa R (PRT)**

Comparative study of genotoxic response of freshwater mussels *Unio tumidus* and *Unio pictorum* to environmental stress  
**Vuković-Gačić B, Kolarević S, Sunjog K, Tomović J, Knežević-Vukčević J, Paunović M & Gačić Z (SRB)**

Good population in bad habitat: on the ecology of the largest population of *Unio crassus* in Poland  
**Zajac K, Zajac T, Adamski P, Bielański W, Ćmiel A, Lipińska A & Klich M**