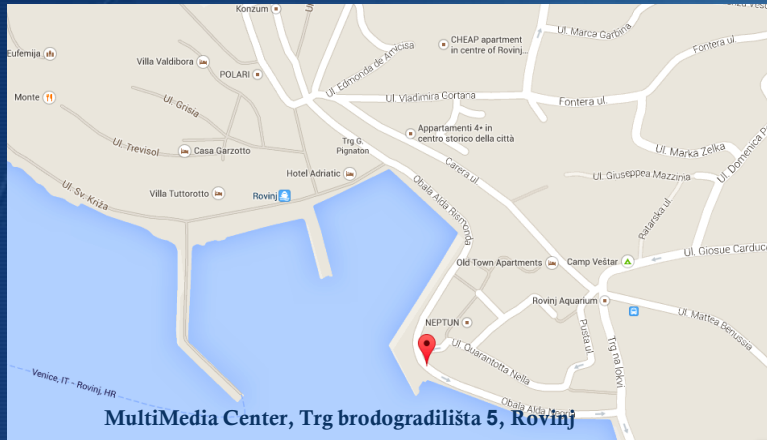


## Location:

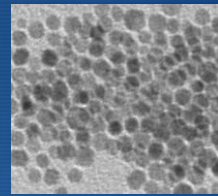
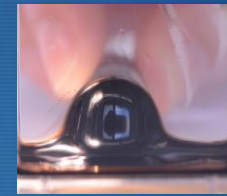


## Contacts:

Local organizer

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**IRB** Institut Ruđer Bošković  
Center for Marine Research  
Rovinj - Rovigno

# Public Lecture What we learnt from marine animals: From evolution to biomedical applications.

**Prof. Dr. Werner E. G. Müller**

**May 30th 2016, 18:00**  
Multimedia Center  
Trg brodogradilišta 5, Rovinj - Rovigno,  
Croatia

# Program:

**18:00 – 18:15**

## **Welcome Address**

Prof. Dr. Renato Batel  
Center for Marine Research  
Ruđer Bošković Institute

**18:15 – 19:30**

Lecture:

## ***What we learnt from marine animals: From evolution to biomedical applications.***

Prof. Dr. Werner E. G. Müller  
University of Mainz – Medical  
Center (Germany)

**19:30 – 21:00**

## **Open discussion and refreshments**

**Prof Dr. Werner E. G. Müller**

Prof. Dr. Werner E.G. Müller is University-Professor at the Johannes Gutenberg University Mainz (Germany) and also CEO of the SME NanotecMARIN GmbH; and - Senator and Academician of the Erfurt Academy of Sciences (Germany) - Academician of the Croatian Academy of Sciences - President of the International Marine Biotechnology Association (IMBA) - Editor-in-Chief of several journals and progress series - Winner of three Highest Personal Grants from the European Research Council (ERC) - Coordinator of the Integrated Project “BlueGenics” funded by the European Commission- More than 20 national and international scientific awards, including in the highest award from Germany “German Federal Cross Medal; 1st class”- Over 1100 publications [Hirsch -index: 73; ISI Web of Science] and 21 granted patents and 15 patent applications [DEPATISnet – Data base : 226 hits]



*My research activities focus on the understanding of deep metazoan phylogeny in order to “reconstruct” and define the genetic repertoire of the Urmetazoa. The main topic of my group in the past 10 years is the study of template-directed biomineralization processes, in particular biosilicification in marine and freshwater demosponges.*

*More recently I became particularly interested in the formation of the mineral skeletons of deep sea glass sponges, but also in other mineralization processes (polymetallic nodules and ferromanganese crusts). For these studies we apply multidisciplinary approaches from inorganic chemistry to molecular biology and bioinformatics. My research interests also comprise development of novel applications of the enzymes/proteins involved in biosilica formation in various fields of nano(bio)technology and nano-medicine.*

*Marine organisms are an inexhaustible source of novel bioactive compounds for biomedical application. Industrial exploitation of this natural resource using traditional approaches is, however, hampered by supply problems. A multidisciplinary approach, driven by high-tech SMEs with dedicated interest in bringing marine-biotechnology-derived products to the market, involves the discovery and sustainable production of bioactive molecules from extreme environments and the expression of unique enzymes/proteins of biomedical and biotechnological interest. The molecular-biology-based strategies for sustainable exploitation of aquatic molecular biodiversity will further strengthen the international position and effectiveness of European (SME-based) blue biotechnology industry.*

**Organizational support:**

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