



Biomaterials
Biodegradables
Biomimetics

For more Information go to www.3bs.uminho.pt

3B's is a member of the PT Government
Associate Laboratory

ICVS / 3B's of UNIVERSITY OF MINHO



ICVS//3B's
Associate
Laboratory
University of Minho



ICVS//3B's
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Laboratory
University of Minho



European Institute of Excellence on Tissue Engineering and Regenerative Medicine - Headquarters

Headquarters and the Home for 3B's Research – Opened in July 2008, AvePark, Taipas - Guimarães, Minho, Portugal



* CEO – Rui L. Reis

3600 m² new state of the art full equipped facility specially designed for TERM research



MAIN SOURCES OF FUNDING (FP7)



MSFRP (NMP)
– FIND & BIND



MSFRP (KBBE) – SPECIAL



MARMED (Large Euro-Atlantic Project)
IBEROMARE (Large Collaboration PT-SP)



LSCRIP – DISCREGENERATION



MIT-Portugal: Bio-Engineering Systems



ICVS/3B's
Associate
Laboratory
University of Wits



3B's – U. Minho Funding



ComplexiTE – European Research Council (ERC) Advanced Grant (AdG) to Rui L. Reis

Rui L. Reis is PI of projects of more than 34 MEuros with a total budget for U. Minho of more than 20 MEuros



ISWA - Immersion in the Science Worlds through Arts (CSA)

BioHybrid: Biohybrid templates for peripheral nerve regeneration (Collaborative - SME-targeted)

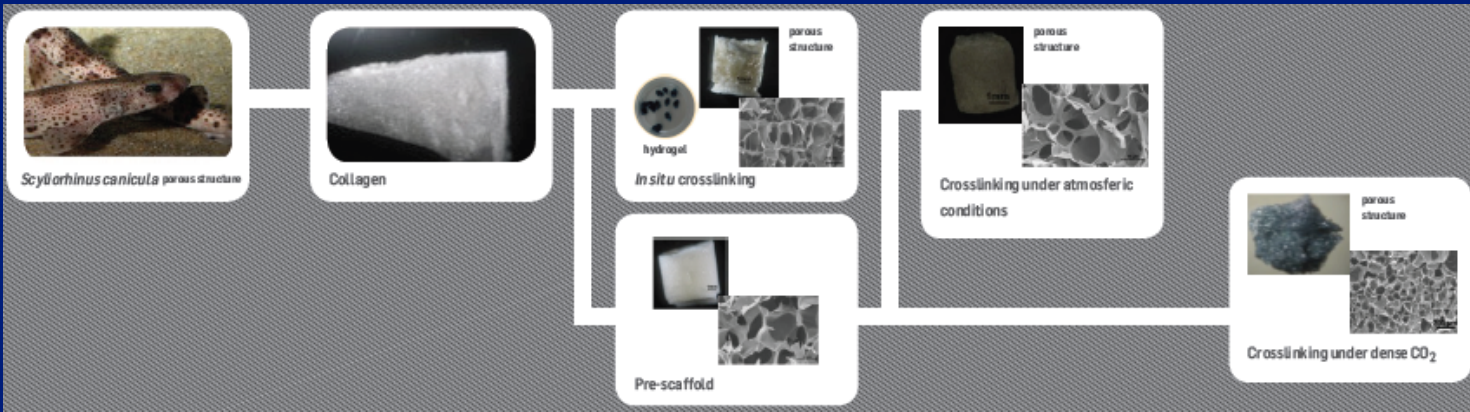
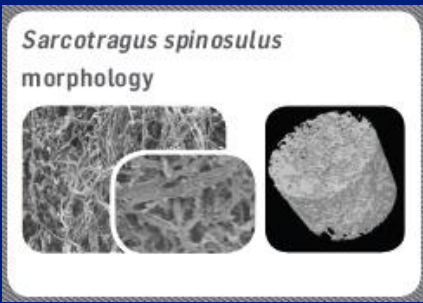
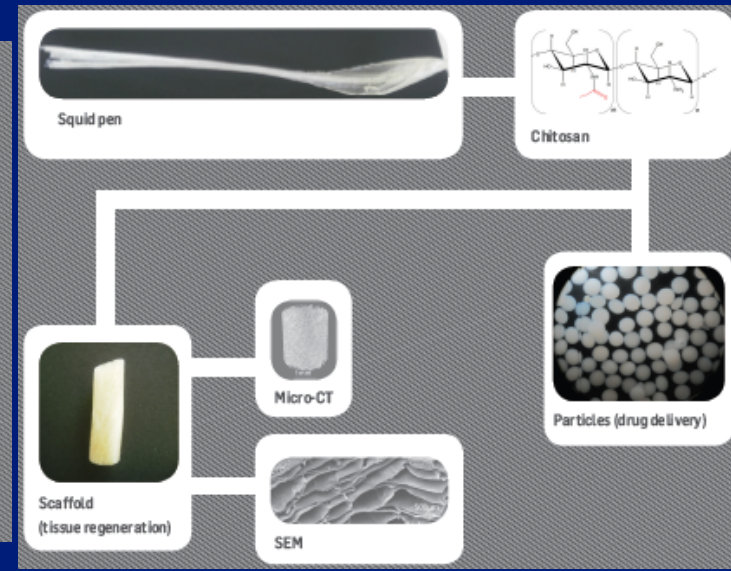
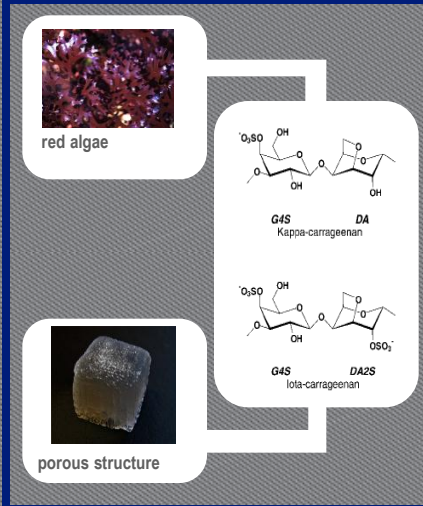
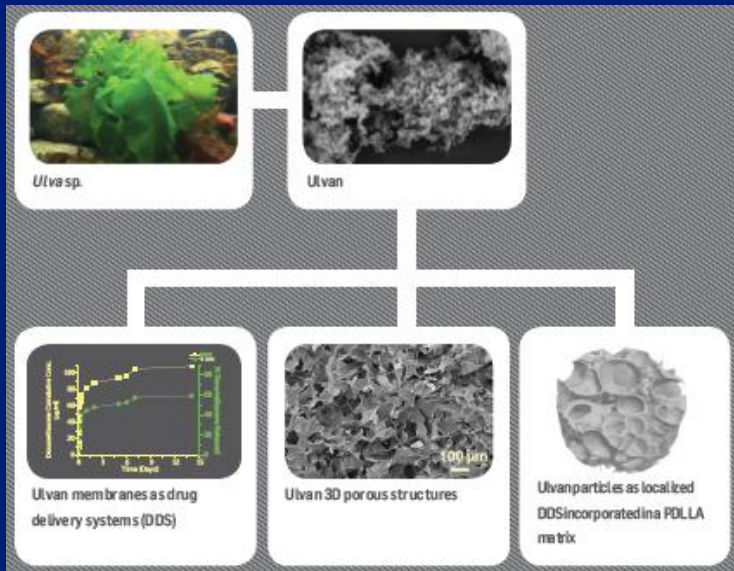
MultiScaleHuman – Multi-scale Biological Modalities for Physiological Human Articulation (MC - ITN)

NANOMABIO – Cost Action

Several National (FCT, QREN,...) and Industrial Funded Projects

QREN- Large Integrated Project ICVS/3B's

MARINE BIOMATERIALS



Tiago H. Silva, ..., Rui L. Reis, *International Materials Reviews*, 57 (2012): 276-306.



Stem matters

STEM CELLS AND MATERIALS TECHNOLOGIES THAT REALLY MATTER(S)

Contacts

Rui L. Reis

Chairman/President / CSO

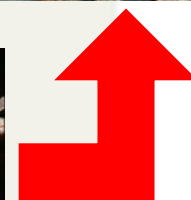
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SPECIAL

SPONGE ENZYMES AND CELLS FOR INNOVATIVE APPLICATIONS

SPongE Enzymes and Cells for Innovative AppLications



SPECIAL project

to establish sustainable, controlled technologies for the production of sponge materials

project that addresses bottlenecks in culture methods for marine organisms

Intracellularly
produced compounds

secondary metabolites with
anticancer potential

Extracellularly
produced biomaterials

collagen

biosilica



Participant no.	Participant organisation name	Country
1 (Coordinator)	University of Minho (UMINHO)	Portugal
2	Tel Aviv University (TAU)	Israel
3	Porifarma BV (PF)	Netherlands
4	Studio Associato Gaia SNC dei Dottori Antonio Sarà e Martina Milanese (GAIA)	Italy
5	University of Genova (UNIGE)	Italy
6	University of Mainz (UMC)	Germany
7	National Research Center for Geoanalysis (NRCGA-CAGS)	China
8	Karolinska Institute (KI)	Sweden
9	Arthrahasis (ATR)	Italy
10	University of Azores (UAzores)	Portugal
11	NanotecMARIN GmbH (NTM)	Germany



Iberomare

Multipolar Centre for the Valorization of Marine Resources and Residues

POCTEP 2007-2013 - Project 0330_1_P



Unión Europea
Fondo Europeo de Desarrollo
Regional

Invertimos en su futuro



SISTEMA
COOPERACIÓN TRANSFRONTERIZA
ESPAÑA - PORTUGAL
COOPERAÇÃO TRANSFRONTEIRICA

MARMED PROJECT - overview



Development of innovating biomedical products from marine resources valorisation

Main goal

Create a route of sustainable exploitation of marine and aquatic resources for biomedical applications

Evaluation of the potential for valorisation of marine resources and sub-products

New biomedical applications
- proof-of-concept

Collaboration with companies:

- Marine subproducts
- Valorisation
- Biomedical

MARMED PROJECT - consortium

Participant no.	Participant organisation name	Country
1 (Coordinator)	University of Minho	Portugal
2	Institute of Biomedical Sciences Abel Salazar of University of Porto	Portugal
3	Institute of Marine Research – CSIC	Spain
4	Technological Centre of the Sea – CETMAR	Spain
5	University of Vigo	Spain
6	Portuguese Institute of Sea and Atmosphere	Portugal
7	University of Western Bretagne	France
8	Queen's University Belfast	Northern Ireland
9	National University of Ireland Galway	Ireland
10	University of Algarve	Portugal

A project co-funded by **ERDF** under **Atlantic Area** Transnational Cooperation Programme