

SPECIAL

SPONGE CELLS AND ENZYMES FOR INNOVATIVE APPLICATIONS

SPECIAL project consortium¹

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WP1. Collection of biological materials - sponges

Many species have been collected and characterized from the Mediterranean Sea, Red Sea, Azores and Caribbean Sea...

WP2. Sponge Proliferation Application

Protocols that apply to several species have been developed

WP5. Biosintering for biosilica production

The in-vitro culture of sponge cells with a primmorph development state has been obtained

WP6. Antitumor drug discovery and development

... and then extracted. Extracts and fractions have been screened for anti-tumor activity to identify promising candidate leads (obtained)

WP8. Dissemination and exploitation

The SPECIAL newsletters are available via the project website...

...while a series of videos dedicated to Blue Biotech are available via the dedicated YouTube channel...

...and visuals related to various SPECIAL open days may be reached via both

WP7. Development of biomedical and industrial applications

The collagen native structure of several sponge species has been developed into nature-made scaffolds for applications in tissue engineering

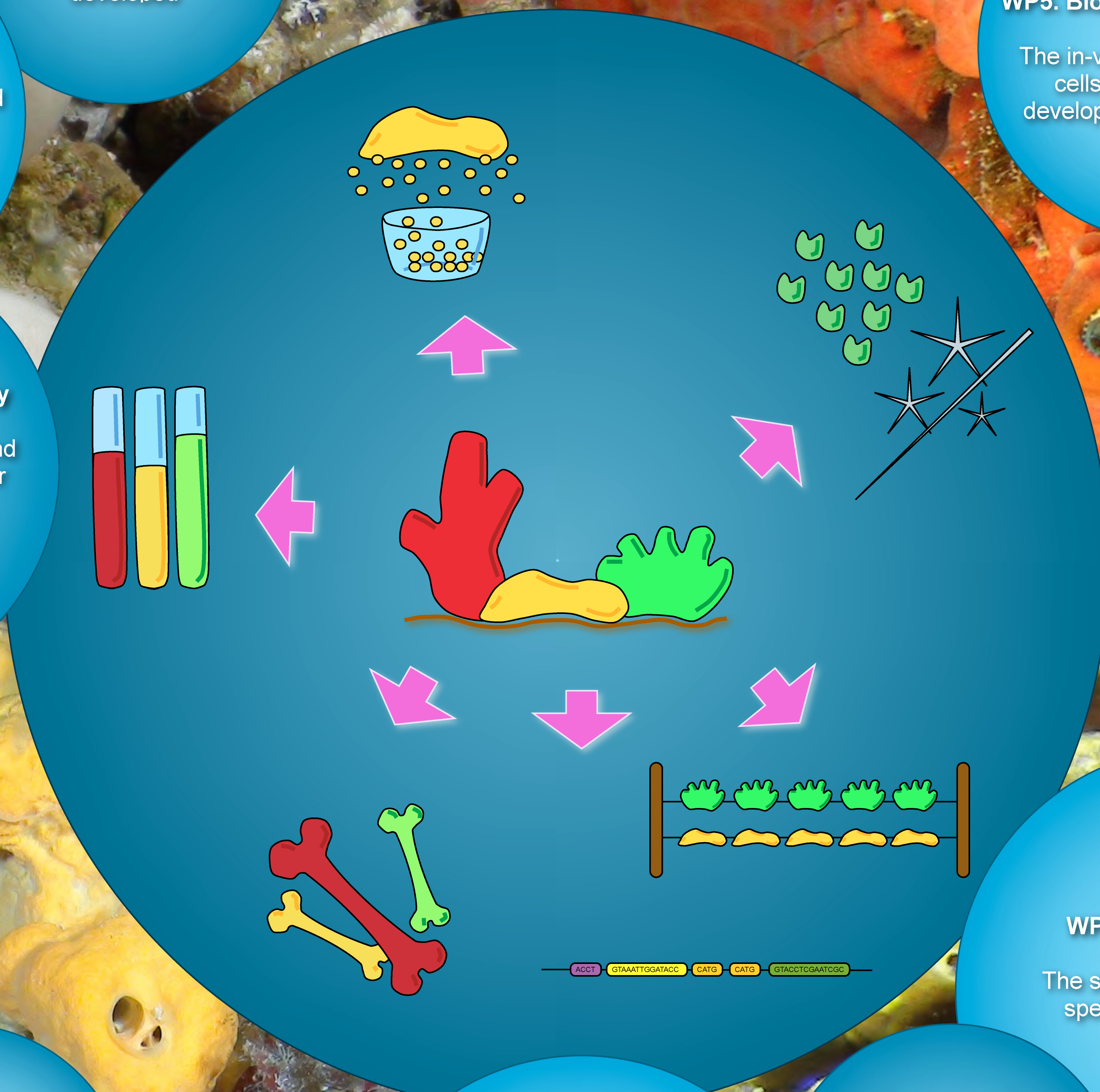
WP3. Sponge mariculture - collagen production

The successful mariculture of two species of sponges has been achieved...

... the extraction and characterization of collagen from one of them has been completed...

WP4. Enzymatic production of collagen

... and the genes regulating collagen expression in sponges have been deciphered



SPECIAL has received funding from the European Community's 7FP (FP7/2007-2013) under Grant Agreement n. 266033

