

## **SCHEDA LABORATORIO SCIENTIFICO N.32**

### **TITOLO: MICROSCOPIA ELETTRONICA A SCANSIONE**

**Responsabile scientifico:** MARIO DE STEFANO

**RADOR:** MARIO DE STEFANO

**Gruppi afferenti:** GRUPPO DI RICERCA IN BIOLOGIA VEGETALE (PLANT BIOLOGY RESEARCH GROUP)

**Numero postazioni:** 2

#### **Breve descrizione**

Nel laboratorio vengono svolte le attività di osservazione in Microscopia elettronica a scansione (SEM) correlate alle linee di indagine del Gruppo di Biologia Vegetale nonché attività in conto terzi di preparazione ed analisi di qualsiasi campione o materiale potenzialmente osservabile in SEM.

#### **Lista di attrezzature o categorie di attrezzature:**

- Microscopio Elettronico a Scansione Jeol 6060LV;

#### **Attività svolte nel laboratorio**

- Quantificazione mediante conteggi diretti in SEM e analisi della struttura di comunità microfitobentoniche in termini di classi funzionali;
- Analisi SEM.

**Categorie ISI WEB di riferimento:** Marine and freshwater Biology, Ecology, Environmental Science, Material Science, Biomaterials, Material Science Multidisciplinary, Biotechnology and Applied microscopy, Nanoscience and nanotechnology, Plant science, Optics;

#### **Categorie ERC di riferimento**

LS3\_1 Morphology and functional imaging of cells

LS8\_1 Ecology (theoretical, community, population, microbial, evolutionary ecology)

LS8\_2 Population biology, population dynamics, population genetics, plant-animal interactions

LS8\_4 Biodiversity, comparative biology

LS8\_6 Biogeography

LS8\_8 Environmental and marine biology

PE3\_12 Nanophysics: nanoelectronics, nanophotonics, nanomagnetism

PE5\_1 Structural properties of materials

PE5\_6 Porous materials

**Settori Scientifico-Disciplinari di riferimento:** BIO 01 – Botanica Generale

**Brief description of the research activities performed in Scanning Electron Microscopy**

The research activities carried out in Scanning Electron Microscopy are mainly related to the investigation topics of the Biology Group Plant but they also include qualitative and quantitative EM analysis for third parties on any kind of samples.

**List of equipment or classes of equipment:**

Scanning Electron Microscope Jeol 6060LV

**Activities carried out in the laboratory**

Quantification by direct counts in SEM and analysis of microphytobenthic community structure in terms of functional classes;

SEM Analysis

**ISI WEB categories:** Marine and freshwater Biology, Ecology, Environmental Science, Material Science, Biomaterials, Material Science Multidisciplinary, Biotechnology and Applied microscopy, Nanoscience and nanotechnology, Plant science, Optics;

**ERC categories**

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PE5\_1 Structural properties of materials

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**Scientific subjects :** BIO 01 – Botany