

**SYMBIOTIC ASSOCIATIONS BETWEEN CEPHALOPODS AND
THE *ROSEOBACTER* BACTERIA STRAIN**

Delphine Pichon¹, Sveva Grigioni², Favet Jocelyne² and Renata Boucher-Rodoni¹

¹*USM 401-UMR 578BOME-CNRS, DMPA-Muséum national d'Histoire naturelle, CP 51, 55 rue Buffon,
75005 Paris, France*

²*Laboratoire d'Ecologie Microbienne, Université de Genève (Bastions), 1211 Genève, Switzerland*

ABSTRACT: The accessory nidamental glands (ANG) of sepiids and loliginids harbour a dense population of bacteria of unknown functions. The α -proteobacterium *Roseobacter* is present in most species. The present results show that 3 *Roseobacter* strains are associated with the cephalopod ANG. Two strains are specific to cephalopod taxa, the third is grouped together with reference strains of known physiological activity. The latter suggest a possible on the function of *Roseobacter* strains associated with the cephalopod ANG, in carotenoids production and egg protection by antibiotics and toxins production.
