

**MSCA – DN- 01-01**

**HOTBIO: A holistic approach to training a new generation of scientists in marine biodiscovery**

The **HOTBIO** consortium will train a new generation of early-stage scientists to take marine microbial natural products from the seabed to the bedside. They will be involved in every stage of the pipeline from microbial isolation through compound purification and identification to making analogues with desirable drug-like properties. They will gain associated skills in access and benefit sharing, intellectual property and entrepreneurship. Students graduating from HOTBIO will be in a unique position to enter a challenging labour market as they will have received multidisciplinary training at world leading research groups in academia as well as at industry partners. Mentorship will be provided by industrial scientists and recent graduates from the MSCA ITN MarPipe.

**Main activities: SZN PARTNER**, Assessment of screening methods for antimicrobial compounds; Genomes of the best microbial candidates will be sequenced and subjected to a genome mining approach for the identification of novel biosynthetic gene clusters (BGCs).

