



Defensio Andrea Lubich

In her thesis A. Lubich studied extracts of eight rare marine actinomycetes for HDAC-inhibitory and antimicrobial activities. Within these investigations methylparaben was identified as antimicrobial metabolite of *Actinoalloteichus hymeniacidonis*.

In this strain four diketopiperazines, 1-methylthymine and coproporphyrin III were elicited in an OSMAC approach. After addition of the elicitor valproic acid during cultivation the secondary metabolites N-(2-phenylacetyl)-phenylalanine methyl ester, N-pyroglutamyl-phenylalanine methyl ester and (3S, 4S)-4-methyl-1-phenyl-2,3-pentanediol were built and proven as natural products for the first time.