

UNIVERSITY OF NAPOLI "FEDERICO II"

POLYTECHNIC AND SCIENCE SCHOOL

Department of Chemical Sciences

Ph.D. School in Chemical Sciences (XXXVII Cycle)



nea**pōlis** 

## Second year activity

The second year research activity has been directed to the examination of the oxidative chemistry of 5,6-dihydroxindole-2-carboxylic acid (DHICA), a precursor of natural melanins, with laccase, in the perspective of getting access to new melaninrelated materials. A second goal has been the characterization of phenolic polymers extracted from pine needles, a largely available and still not fully exploited waste material to be used as green corrosion inhibitors for aluminium alloys.