

## ***Curriculum vitae et studiorum***

Dott. Grazia Maria Letizia Consoli

Grazia Maria Letizia Consoli graduated in Biological Sciences at the University of Catania, with a grade of 110 *cum laude*. In 1990 she qualified as a biologist at the University of Catania. In 1998 he obtained the Specialization in Biochemistry and Clinical Chemistry at the University of Catania with a grade of 70/70, discussing a thesis entitled "Molecular mechanisms of angiogenesis". She was a fellow at the Institute for the Study of Natural Substances of Food and Chemical-Pharmaceutical Interest of the CNR and since 1999 she has been a researcher at the Institute of Biomolecular Chemistry (ICB) of the CNR. In 2004 she was visiting researcher at the laboratory of Prof. R. R. Schmidt (University of Konstanz, Germany).

### **SCIENTIFIC SKILLS**

Her skills lie in the field of organic synthesis and supramolecular chemistry. In particular, the research activity is focused on the synthetic manipulation of macrocyclic scaffolds for applications in the life sciences sector. Multivalent constructs with activity as anticancer, antibacterial, synthetic vaccines, enzyme inhibitors, heparin sequestrants, inhibitors of the formation of  $\beta$ -amyloid aggregates have been developed. Nanoassembled systems (micelles, vesicles, hydrogels) active as nanocarriers for drug delivery and targeted drug delivery of photoactivable molecules and ingredients of natural and synthetic origin have also been designed and achieved for potential use in photodynamic therapy, chemotherapy and treatment of inflammatory diseases. She possesses skills in organic synthesis (in solution and in solid phase), molecular recognition and analytical and structural characterization techniques (HPLC, NMR, UV-VIS, DLS, TEM).

The activity carried out over the years has also been modeled on the technological transfer research request, allowing access to public and private funding as a participant or scientific manager. She is co-author of 55 publications in international journals, 2 patents, 3 book chapters, and has participated in 80 conferences with poster and oral communication.

From 2017 to today she is Scientific Boss of the Supramolecular Chemistry laboratory

She has been member of numerous commissions for the public selection of fellows and trainees in advanced training courses and for the evaluation of research projects. She has been scientific tutor in funded higher education projects and master's theses.