

Dr. Anna Messere was born in Naples on April 3 1965. She graduated in Biological Sciences (110/110 summa cum laude) at University of Naples "Federico II" in 1989. She got a PhD in Chemical Sciences at the same University in 1995 discussing the thesis "Chemical synthesis of members of nucleic acids: linear, cyclic and modified oligonucleotides and nucleoside analogues ". She attended several education courses (Natural Products Chemistry; Chemical Synthesis). From 1989 to 1991 and from 1995 to 1997 she worked as Research Fellow with grants from the CNR (Consiglio Nazionale delle Ricerche) and ISS (Istituto Superiore di Sanità) involving in the study on chemical synthesis of new nucleosides with potential antiviral (HIV) activity. In 1997, she was awarded a postdoctoral fellowship at the University of Naples "Federico II".

From 2000 to today, she has held a permanent position as Assistant Professor in Organic Chemistry at the Department of Environmental, Biological and Pharmaceutical Science and Technologies of the University of Studies of Naples "Luigi Vanvitelli", where she lectures in Organic Chemistry, Applied Organic Chemistry, Advanced Organic Chemistry, Natural Products Chemistry, Design and Chemical Synthesis of biomolecules.

In 2018, she obtained the national qualification of associate professor of Organic Chemistry.

She is member of the Department of Environmental, Biological and Pharmaceutical Science and Technologies of the University of Studies of Naples "Luigi Vanvitelli". Moreover, she was member of the Ph.D. Scientific Council in "Biomolecular Sciences"(2003-2016).

Her main research interest is the chemical synthesis, characterization and application of natural and modified oligonucleotides and the synthesis of novel modified nucleosides with potential antiviral and antitumoral activity.

She is co-author of over 60 articles, published in international scientific journals, as well as of numerous communications presented at international symposiums and conferences.

She was:

- scientific manager of the research project titled "New therapeutic agents based on strategies of genetic modulation for the neuroblastoma therapy" financed by Region Campania. (2005)

-scientific unit manager of the PRIN (Scientific research project of national interest) titled "Synthetic oligonucleotides: useful molecular tools and prospective medications in Neuroblastoma" in 2009.

▣- scientific manager of the research project titled " RNA interference based on chemically modified siRNAs " financed by Region Campania. (2008)

She also attended the following projects:

- PRIN 2001 titled " Synthesis and structural studies of modified and / or conjugated oligonucleotides with potential biological activity " (2001-2004)
- PRIN 2002 dal titolo " Structural characterization by NMR spectroscopy and X-ray diffraction of the functional domains of the transport systems of excitatory amino acids (EAAT) and of their interaction with new specific ligands " (2002-2005)
- PRIN 2003 dal titolo " Structural analysis through NMR techniques of peptide fragments of prion and Doppel proteins and their interaction with metals and possible therapeutic agents "(2003-2005)
- PRIN 2004 dal titolo "Determination of the three-dimensional structure of the carboxy-terminal domain of the human transporter of excitatory amino acids of type 2 (EAAT2) and characterization of the binding site with glutamate and other specific ligands" (2004-2007)
- PRIN 2005 dal titolo " Oncogenes and tumor suppressors involved in tumors of the nervous system: NMR structural study and synthesis of new oligonucleotide analogues with potential therapeutic applications " (2006-2008)

- PRIN 2007 dal titolo " Nervous system tumors in childhood: NMR screening of molecule libraries and synthesis of new therapeutic agents " (2008-2011).