

Curriculum vitae Dr. Vincenzo Zambrano

PERSONAL INFORMATION

Name and Surname	Vincenzo Zambrano
Date of birth	13/09/1972
Work Address	Traversa La Crucca 3 Regione Balinca Li Punti 07100 Sassari - Italy
Current Position	Technologist at Institute of Biomolecular Chemistry - National Research Council
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EDUCATION AND TRAINING

November 1997	Graduated in Chemistry with final grades of 110/110 cum laude.
February 2004	PhD in Chemical Sciences at the University of Sassari.

PROFESSIONAL EXPERIENCE

September 2000 September 2007	Tenured High School teacher.
October 2007	Grant at ICB CNR "Molecular diversity in the chemical synthesis of biologically active compounds of social relevance".
January 2008	Technologist at ICB-CNR

RESEARCH ACTIVITY

His research interests are focused on the synthetic aspects of the preparation of bioactive molecules inherent the Chemistry of Biological Systems, applying diastereoselective and enantio-synthetic methods for the assembly of several classes of bioactive natural compounds.

In particular he uses a methodology based on the vinylogous aldol reaction involving furan, pyrrole and thiol-based dienoxysilanes and different classes of electrophiles acceptors.

The products derived from these reactions are unique molecular platforms, manipulated with the techniques of modern organic synthesis can build up a wide variety of chiral and non racemic compounds that can be used in the area of small functional molecules with significant repercussions in the biological and pharmaceutical sectors.

His research interests concentrate also in the characterization and structural determination of organic compounds using the Magnetic Resonance Spectroscopy (NMR) techniques with mono and bi-dimensional experiments, in particular 1D (1H, 13C) and 2D (Cosy Tocsy HMQC and Noesy).

SCIENTIFIC ACTIVITY

Co-author of 27 scientific publications in peer reviewed international journals and presentations at national and international conferences.

Bibliometric indicators: 773 citations, H-index = 17 (fonte Google Scholar).

URL: https://scholar.google.it/citations?hl=it&user=el1gy_sAAAAJ

SELECTED PUBLISHED PAPERS

1. Zambrano V.; Rasso G.; Roggio A.; Pinna L.; Zanardi F.; Curti C.; Casiraghi G.; Battistini Lucia Asymmetric total synthesis of 1-deoxy-7,8-di-epi-castanospermine *Organic and Biomolecular Chemistry* Volume 8, Issue 7, Pages 1725 – 1730 **2010**
2. Curti C.; Rasso G.; Zambrano V.; Pinna L.; Pelosi G.; Sartori A.; Battistini L.; Zanardi F.; Casiraghi G. *Angewandte Chemie - International Edition* Volume 51, Issue 25, Pages 6200 – 6204 **2012**
3. Dell'Amico L.; Rasso G.; Zambrano V.; Sartori A.; Curti C.; Battistini L.; Pelosi G.; Casiraghi G.; Zanardi F. *Journal of the American Chemical Society* Volume 136, Issue 31, Pages 11107 – 11114 **2014**
4. Brindani N.; Rasso G.; Dell'Amico L.; Zambrano V.; Pinna L.; Curti C.; Sartori A.; Battistini L.; Casiraghi G.; Pelosi G.; Greco D.; Zanardi F. *Angewandte Chemie - International Edition* Volume 54, Issue 25, Pages 7386 - 73901 **2015**
5. Curti C.; Rasso G.; Lombardo M.; Zambrano V.; Pinna L.; Battistini L.; Sartori A.; Pelosi G.; Zanardi F. *Angewandte Chemie - International Edition* Volume 59, Issue 45, Pages 20055 – 20064 **2020**

PROFESSIONAL APPOINTMENT

Responsible for the management of Nuclear Magnetic Resonance, to be carried out using the Varian Mercury 400 Spectrometer.

Appointment of Head of the internal service and towards external subjects of Nuclear Magnetic Resonance to be carried out using the Varian Mercury 400 Spectrometer.

RESEARCH PROJECT

Involved in the development on several national research projects, he is working on the current project: Green Chemistry in Drug Discovery: Sustainable synthesis of Telomerase Inhibitors (RASSR81788).