



## Claudia Sorbi

**Date of birth:** 21 Jan 1972 | **Nationality:** Italian | **Gender:** Female | **Phone number:**

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<https://personale.unimore.it/rubrica/dettaglio/sorbic> |

**Address:** Via Giuseppe Campi 103, Life Sciences Department, 41125, MODENA, Italy (Work)

### ABOUT ME

*I suffer from a strange bipolarity, in which the scientific soul is in constant exchange and struggle with the humanistic one*

### EDUCATION AND TRAINING

1 JAN 1998 – 31 DEC 2000 Modena, Italy

**PHD** University of Modena and Reggio Emilia

**Level in EQF** EQF level 8

OCT 1997 MODENA, Italy

**SPECIALISATION COURSE IN "LABORATORY METHODS FOR DRUG RESEARCH"** University of Modena and Reggio Emilia - Department of Pharmaceutical Sciences

MAY 1997 Modena, Italy

**PHARMACIST PROFESSIONAL QUALIFICATION (STATE EXAM)** UniMORE - Department of Pharmaceutical Sciences of Modena - Italy.

SEP 1991 – 19 FEB 1997 Modena, Italy

**DEGREE IN PHARMACY** University of Modena and Reggio Emilia

**Level in EQF** EQF level 7

SEP 1986 – JUL 1991 MODENA, Italy

**TECHNICAL-SCIENTIFIC DIPLOMA (60/60 CUM LAUDE)** F. Selmi Institute

**Level in EQF** EQF level 4

### WORK EXPERIENCE

NOV 2014 – CURRENT MODENA, Italy

**ASSISTANT PROFESSOR** UNIVERSITY OF MODENA AND REGGIO EMILIA - LIFE SCIENCES DEPARTMENT

**Medicinal Chemistry** scientific field: organic synthesis and structural and biological characterization of the synthesized molecules up to the preclinical phase.

Teaching activity:

- from 2015 to 2020: Analysis of Medicines 2 (4th year - Pharmacy)

- from 2024: Pharmaceutical Analysis Laboratory (1st year - Pharmacy)

1 NOV 2011 – 31 OCT 2014 MODENA, Italy

**TENURED UNIVERSITY RESEARCHER** UNIVERSITY OF MODENA AND REGGIO EMILIA - LIFE SCIENCES DEPARTMENT

**Medicinal Chemist:** organic synthesis and structural characterization of synthesized molecules with different analytical techniques such as NMR and LC-MS.

Supplementary teaching activity to support the Analysis of Medicines 2 educational laboratory (4th year - Pharmacy)

15 FEB 2007 – 31 OCT 2011 MODENA, Italy

## TECHNICIAN UNIMORE

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Laboratory Technician, in charge of

- two educational laboratories for Pharmacy and Chemistry and Pharmaceutical Technologies degree courses
- general management tasks of the demineralised water production plant of the ex Department of Pharmaceutical Sciences

1 SEP 2005 – 31 AUG 2006 MODENA, Italy

## RESEARCH FELLOW UNIMORE - DEPARTMENT OF PHARMACEUTICAL SCIENCES

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Research Contract, Tutor Prof. Annalisa Tait

research activity: synthesis, molecular characterization and pharmacological evaluation of 2,1,3- e 1,2,4-benzothiadiazine derivatives as PDE4 inhibitors.

1 MAR 2003 – 31 JUL 2005 Trieste (Padriciano - AREA SCIENCE PARK), Italy

## JUNIOR SCIENTIST EURAND S.P.A.

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Eurand S.p.A. employee, junior scientist (Organic Synthesis):

research activity: synthesis of new polymer-based drug conjugates for cancer therapy and their physical-chemical and biological characterization. Study of molecular mechanism of polymeric vectors involved in cancer therapy.

1 JAN 2001 – 30 NOV 2002 MODENA, Italy

## RESEARCH FELLOW UNIMORE - DEPARTMENT OF PHARMACEUTICAL SCIENCES

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Research Contract, Tutor Prof. Livio Brasili

research activity: synthesis, molecular characterization and pharmacological evaluation of new muscarinic, Alpha1 adrenergic, Sigma1 / Sigma2 and 5-HT1A serotonergic ligands.

## PROJECTS

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### Predominantly National Fundings

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- Ministerial and UniMORE funding such as PRIN project (2022-PNRR, as participant) and FAR project (2019 as PI and 2023 as participant) respectively.
- AIRC foundation: Investigator Grant (2019, as participant).

## PUBLICATIONS

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### 2000-2024: 36 indexed peer-reviewed articles, 1 book chapter, 1 patent

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Last 5 years publications:

1. **2024** - Farmaci attivi sul Sistema Nervoso Adrennergico, Cap. 20 - CHIMICA FARMACEUTICA, EdiSES.
2. **2023** - BS148 Reduces the Aggressiveness of Metastatic Melanoma via Sigma-2 Receptor Targeting.
3. **2023** - Discovery of potent pyrrolo-pyrimidine and purine HDAC inhibitors for the treatment of advanced prostate cancer.
4. **2023** - Insights into the Structural Conformations of the Tau Protein in Different Aggregation Status.
5. **2023** - Novel S1R agonists counteracting NMDA excitotoxicity and oxidative stress: A step forward in the discovery of neuroprotective agents.
6. **2022** - Effect of the replacement of the o-methoxyphenyl moiety with nitrogen-containing aromatic rings within N-phenyl-piperazine and phenoxy-ethylamine-based 1,3-dioxo/oxathio/dithiolanes as  $\alpha$ 1 and 5-HT1A receptor ligands.
7. **2021** - Inhibitors of histone deacetylase 6 based on a novel 3-hydroxy-isoxazole zinc binding group.
8. **2021** - Investigation of the effect of different linker chemotypes on the inhibition of histone deacetylases (HDACs).
9. **2020** - Identification of a Potent and Selective 5-HT1A Receptor Agonist with In Vitro and In Vivo Antinociceptive Activity.
10. **2020** - Novel Dithiolane-Based Ligands Combining Sigma and NMDA Receptor Interactions as Potential Neuroprotective Agents.
11. **2020** - Spirooxatrine derivatives towards 5-HT1A receptor selectivity.
12. **2019** - 1,3-Dioxane as a scaffold for potent and selective 5-HT1AR agonist with in-vivo anxiolytic, anti-depressant and anti-nociceptive activity.
13. **2019** - Effect of the rigidification of propranolol, a mixed  $\beta$ -adrenoceptor and 5-HT1AR antagonist.

● **NETWORKS AND MEMBERSHIPS**

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Several Italian (Milan, Bari Pavia, Catania) and foreign (Poland, USA) universities; Companies in Italy such as GSK, IRBM and Recodati

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● **MANAGEMENT AND LEADERSHIP SKILLS**

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excellent organizational skills; excellent project and staff management in the research laboratory

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● **ORGANISATIONAL SKILLS**

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good time management and ability to work during periods of time pressure to meet strict deadlines

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● **COMMUNICATION AND INTERPERSONAL SKILLS**

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excellent communication, empathic, resilience and problem solving skills

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● **LANGUAGE SKILLS**

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Mother tongue(s): **ITALIAN**

Other language(s):

|                | UNDERSTANDING |         | SPEAKING          |                    | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
|                | Listening     | Reading | Spoken production | Spoken interaction |         |
| <b>ENGLISH</b> | B2            | C1      | B2                | B2                 | C1      |

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

● **DIGITAL SKILLS**

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Zoom | Microsoft Office | Google Drive | Skype | LinkedIn | Google Docs

● **DRIVING LICENCE**

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Driving Licence: B

*Claudia Sorbi*

MODENA, 16 OTTOBRE 2024