

PERSONAL INFORMATIONS

Name **PIETRO MANCINI**
Address
Mobile number
Fax
E-mail
Nationality
Date of birth **2000**

INSTRUCTION AND FORMATION

- Date (from – to) **1ST OCTOBER 2025 – 30TH NOVEMBER 2025**
• Name and type of educational or training institution **INSTITUT DES SCIENCES MOLÉCULAIRES, UNIVERSITÉ DE BORDEAUX, TALENCE, FRANCE.**
• Principal subjects/professional skills studied **TWO MONTHS OF TRAINEESHIP UNDER THE ERASMUS PROGRAM UNDER THE SUPERVISION OF PROF. MIREILLE BLANCHARD DESCE**
- Date (from – to) **NOVEMBER 2024 – PRESENT**
• Name and type of educational or training institution **DEPARTMENT OF CHEMISTRY, BIOLOGY AND BIOTECHNOLOGIES, UNIVERSITY OF PERUGIA, PERUGIA, ITALY.**
• Principal subjects/professional skills studied **PHD STUDENT IN BIOTECHNOLOGIES, CURRICULUM: BIOMATERIALS AND BIODEVICES
SUPERVISORS: PROF. BENEDETTA CARLOTTI, PROF. FAUSTO ELISEI**
- Date (from – to) **MARCH 2022 – JULY 2024**
• Name and type of educational or training institution **DEPARTMENT OF CHEMISTRY, BIOLOGY AND BIOTECHNOLOGIES, UNIVERSITY OF PERUGIA, PERUGIA, ITALY.**
• Principal subjects/professional skills studied **MASTER DEGREE IN MOLECULAR AND INDUSTRIAL BIOTECHNOLOGIES, 110/110 CUM LAUDE AND ACADEMIC MENTION.
THESIS TITLE: COMPOSITE NANOAGGREGATES OF MULTIMODULAR PUSH-PULL SYSTEMS SHOWING AGGREGATION INDUCED EMISSION AND FRET FOR APPLICATIONS IN THERANOSTICS. RELATORS: PROF. BENEDETTA CARLOTTI, PROF. SABATA MARTINO.**

- Qualification obtained **MASTER DEGREE IN MOLECULAR AND INDUSTRIAL BIOTECHNOLOGIES**
- Date (from – to) **SEPTEMBER 2018 – FEBRUARY 2022**
- Name and type of educational or training institution **DEPARTMENT OF CHEMISTRY, BIOLOGY AND BIOTECHNOLOGIES, UNIVERSITY OF PERUGIA, PERUGIA, ITALY.**
- Principal subjects/professional skills studied **BACHELOR DEGREE IN BIOTECHNOLOGIES, 110/110 CUM LAUDE**
THESIS TITLE: EXCITED STATE DYNAMICS OF PHENOTHIAZINE-BASED FLUOROPHORES SHOWING AGGREGATION INDUCED EMISSION. RELATORI: PROF. BENEDETTA CARLOTTI, DOTT. TOMMASO BIANCONI
- Qualification obtained **BACHELOR DEGREE IN BIOTECHNOLOGIES**

PUBLICATIONS

- Bianconi, T., Cesaretti, A., Mancini, P., Montegiove, N., Calzoni, E., Ekbote, A., Misra, R., & Carloti, B. (2023). Room-Temperature Phosphorescence and Cellular Phototoxicity Activated by Triplet Dynamics in Aggregates of Push–Pull Phenothiazine-Based Isomers. *J. Phys. Chem. B*, 127, 1385–1398. <https://doi.org/10.1021/acs.jpcc.2c07717>
- Balanikas, E., Bianconi, T., Mancini, P., Tiwari, N. J., Sheokand, M., Misra, R., ... & Vauthey, E. (2025). Controlling the spatial distribution of electronic excitation in asymmetric D–A–D' and symmetric D'–A–D–A–D' electron donor–acceptor molecules. *Chemical Science*, 2025, 16, 8443–8453, <https://doi.org/10.1039/D5SC01257K>
- R.Cantoni, M.Aleardi, E. D'Amato, C. Popli, Y. Patil, P. Mancini, A. Di Michele, A. Spalletti, R. Misra, T. Goodson and B. Carloti, "Unveiling Aggregation-Induced Singlet Fission in Push–Pull Diketopyrrolopyrrole Water Dispersed Nanoaggregates and Thin Films." *Adv. Funct. Mater.* 36, no. 17 (2026): e17911. <https://doi.org/10.1002/adfm.202517911>
- Kurek, E., Mancini, P., Verlhac, J., Carloti, B., & Blanchard-Desce, M. (2026). Cooperative organic alloy nanoparticles built from a matching pair of quadrupolar dyes showing unusual fluorescence behaviour. *Chemical Communications*, 62(15), 4570–4574. <https://doi.org/10.1039/d5cc06701d>
- Mancini, P., Montanari, C., Yadav, K., Luzi, E., Misra, R., & Carloti, B. (2025). Pursuing red thermally activated delayed fluorescence upon increasing the degree of branching in phenothiazine-trithienyltriazine push–pull compounds. *Journal of Materials Chemistry C*, 14(2), 833–844. <https://doi.org/10.1039/d5tc03179f>
- Mancini, P., Montanari, C., Venturi, P., Yadav, K., Bianconi, T., Calzoni, E., Cesaretti, A., Misra, R., & Carloti, B. (2025). Tuning the fate of the triplet by changing the degree of branching in phenothiazine–trithienyltriazine nanoaggregates. *Chemical Communications*, 61(99), 19628–19631. <https://doi.org/10.1039/d5cc05041c>

CONFERENCE CONTRIBUTIONS

Oral Presentations:

- "Excited-State Modulation of Aggregation-Induced Emission Molecules for Room Temperature Phosphorescence and Theranostic Applications." Tommaso Bianconi, Alessio Cesaretti, Pietro Mancini

ni, Nicolò Montegiove, Eleonora Calzoni, Rajneesh Misra and Benedetta Carlotti. Interregional Meeting of the Italian Chemical Society – (TUMA2022), Perugia, Italy. 2022

- “An Insight into the Excited-State Deactivation Mechanism of new Aggregation-Induced Emission Materials for Biological Applications and Optoelectronics.” Tommaso Bianconi, Elena Ferraguzzi, Pietro Mancini, Alessio Cesaretti, Pier Luigi Gentili, Rajneesh Misra, Zhengxu Cai and Benedetta Carlotti. Italian Photochemistry Meeting 2021, Turin, Italy. 2021

Poster Presentations:

- “Influence of the substituent orientation on the excited state deactivation mechanism of phenothiazine-based isomers showing aggregation-induced emission.” Tommaso Bianconi, Pietro Mancini, Rajneesh Misra and Benedetta Carlotti. Giornate Italiane di Fotochimica (GIF2), online. 2022
- “Impact of substituent orientation on the excited-state deactivation pathways of phenothiazine-based isomers showing aggregation-induced emission.” Tommaso Bianconi, Pietro Mancini, Rajneesh Misra and Benedetta Carlotti. XXVII National Congress of the Italian Chemical Society, online. 2021
- “Dual-dye all-organic composite nanoaggregates that show AIE and FRET for theranostics.” Pietro Mancini, Tommaso Bianconi, Alessio Cesaretti, Eleonora Calzoni, Rajneesh Misra and Benedetta Carlotti. Italian Photochemistry Meeting 2024, Rome, Italy, 2024.

AWARDS

AWARDED AS THIRD FOR THE “BEST THESIS IN CHEMICAL DISCIPLINES” PRIZE, INSTITUTED BY THE ITALIAN CHEMICAL SOCIETY (SCI) – UMBRIA SECTION, 19TH DECEMBER 2024

TEACHING

APRIL 2025 – MAY 2025, UNIVERSITY OF PERUGIA, 60 HOURS OF TUTORING IN THE “ANALYTICAL CHEMISTRY” LABS FOR BACHELOR STUDENTS IN BIOTECHNOLOGY AND IN THE “NANOSTRUCTURES AND NANOMATERIALS” LABS FOR MASTER STUDENTS IN MOLECULAR AND INDUSTRIAL BIOTECHNOLOGIES, SUPERVISOR: PROF. CATIA CLEMENTI

**PERSONAL SKILLS AND
COMPETENCES**

*Acquired during one's life and career but
not necessarily recognized by official
certificates and diplomas.*

NATIVE LANGUAGE

OTHER LANGUAGES

- Reading skills
- Writing skills
- Oral expression skills

SOCIAL SKILLS AND COMPETENCES

*Living and working with other people, in a
multicultural environment, in positions
where communication is important and in
situations where teamwork is essential (e.g.
culture and sports), etc.*

**TECHNICAL SKILLS AND
COMPETENCES**

*With computers, specific equipment,
machinery, etc.*

OTHER CAPABILITIES AND
COMPETENCES

DRIVING LICENSE

ATTACHEMENTS

ITALIAN

ENGLISH

GOOD

GOOD

GOOD

ABILITY TO WORK IN A RESEARCH GROUP GAINED DURING TWO YEARS OF PRACTICAL APPLICATION INTERNSHIP AND EXPERIMENTAL THESIS IN UNIVERSITY LABORATORIES;
ABILITY TO WORK INDEPENDENTLY GAINED DURING TWO YEARS OF PRACTICAL APPLICATION INTERNSHIP AND EXPERIMENTAL THESIS IN UNIVERSITY LABORATORIES;
CRITICAL SPIRIT; PROBLEM SOLVING ABILITY, SPIRIT OF ADAPTATION.

GOOD WORKING ABILITY IN CHEMICAL LABORATORY; USE OF UV-VIS SPECTROSCOPY TECHNIQUES IN ABSORPTION AND EMISSION, STATIONARY AND TIME-RESOLVED WITH NANOSECOND AND FEMTOSECOND RESOLUTION; USE OF DATA ANALYSIS SOFTWARE (ORIGIN); GOOD KNOWLEDGE OF WINDOWS OPERATING SYSTEMS; GOOD KNOWLEDGE OF OFFICE SOFTWARE PACKAGE

BASIC KNOWLEDGE OF MECHANICS AND ELECTRONICS, KNOWLEDGE AND USE OF WORK TOOLS/INSTRUMENTS

Patente AM, B

1) COPY OF PERSONAL ID CARD

Il sottoscrittoPietro Mancini..... dichiara che tutti i fatti riportati nel presente curriculum corrispondono a verità ai sensi e per gli effetti degli artt. 46 e 47 del D.P.R. 445/2000.

Il sottoscritto dichiara di essere a conoscenza delle sanzioni penali cui incorre in caso di dichiarazione mendace o contenente dati non più rispondenti a verità, come previsto dall'art. 76 del D.P.R. 28.12.2000, n. 445.

Il sottoscritto dichiara di essere a conoscenza dell'art. 75 del D.P.R. 28.12.2000, n. 445, relativo alla decadenza dai benefici eventualmente conseguenti al provvedimento emanato, qualora l'Amministrazione, a seguito di controllo, riscontri la non veridicità del contenuto della suddetta dichiarazione.

Si allega a tale scopo copia del documento di identità in corso di validità

.....Perugia, 25/03/26.....
(place and date)

Signed