Name Carmine Coluccini, PhD

Current Positions Assistant Professor, Institute of New Drug Development,
China Medical University,
91, Hsueh-Shih Road,
Taichung 40402
Taiwan

Telephone +886-42205-3366 Ext. 2534
E-mail carmine.coluccni@cmu.edu.tw
E-Portfolio Website https://webap.cmu.edu.tw/TchEportfolio/index_1/carminecoluccini
Personal Website

Education

Bachelor's degree in Chemistry, University of Selerno
Ph.D. in Chemical Science, University of Bologna, Italy
Post-doc Researcher in Univesita di Pavia, Pavis, Italy (0950501~0980831)
Post Doc Researcher in Universita di Milano Bicocca, Milan, Italy (0981001~1030228)
Post-doc Researcher in IMDEA MATERIAlES,, Madrid, Spain (1030310~1050610)

Expertise

Organic Synthesis,
Organic Material Science,
Photonic Material,
Drug Delivery,
Supramolecular Chemistry

Research Interests

My research interests concern the preparation of molecular shuttles for the simultaneous delivering of different therapeutic agents (genes and/or drugs) for the treatments of cancer and the preparation of innovative fluorescent biomarkers.

Selected Grants:

1. Preparation of new biomimicry systems, exhibiting a flexible and dynamic coordinative space, for the efficient encapsulation and controlled releasing of the drug toward cancer cells. CMU109-N-25 (2020.11.2 ~ 2021.7.31)
2. Design and synthesis of novel push-pull and propeller-like organic molecules for producing photonic materials. MOST 107-2113-M-039-008-MY3 (2020.8.1 ~ 2021.7.31) (3/3)

Selected Publications

1. Coluccini, C.; Ng, Y.; Reyes, Y.; Chen, H.; Khung, Y. Functionalization of Polyethyleneimine with Hollow Cyclotriveratrylene and Its Subsequent Supramolecular Interaction with Doxorubicin. *Molecules* 2020, 25(22), 5455.
2. Coluccini C., Anusha P.T., Chen, HY.T. , Liao S.L., Ko Y. K., Yabushita A., Luo C. W., Ng Y.M., Khung Y.M. Tuning of the Electro-Optical Properties of Tetraphenylcyclopentadienone via Substitution of Oxygen with Sterically-Hindered Electron Withdrawing Groups. *Sci Rep* 9, 12762 (2019).
3. Coluccini C., Caricato M., Cariati E., Righetto S., Forni A., Pasini D., Synthesis, chiroptical and SHG properties of polarizable push–pull dyes built on π-extended binaphthyls，RSC Advances，2015 Feb，5(28): 21495-21503

Selected Patents

1. Coluccini C., Abbotto A., Manfredi N., Roberto D., Ugo R., Dragonetti C., Valore A., Colombo A., New cyclometalated complexes for solar cells WO2012013719A1