

# Katerina Paschalidou



## Laboratory Teaching Staff

LAB OF ORGANIC CHEMISTRY, DEPARTMENT OF CHEMISTRY, NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS

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## EDUCATION

- 1995 Bachelor of Science in Chemistry
2000. Master/ National and Kapodistrian University of Athens / *Development of a New Method for the Direct Solid Phase Synthesis of Intramolecularly Quenched Fluorogenic Substrates*
- 2004 PhD/ National and Kapodistrian University of Athens / *Synthesis and Study of Intramolecularly Quenched Fluorogenic Substrates Suitable for Sensitive Renin Determination*

## RESEARCH FIELDS

- Peptide synthesis
- Fluorometric Enzyme Assays
- Green Chemistry in Education
- The Laboratory as Learning Environment

## EDUCATIONAL EXPERIENCE

### UNDERGRADUATE COURSES

- INTRODUCTION TO COMPUTING – APPLICATIONS IN CHEMISTRY / Required/ Department of Chemistry
- ORGANIC CHEMISTRY III LABORATORY / Required/ Department of Chemistry
- ORGANIC CHEMISTRY / Required/ Department of Chemistry (for Biology students)

### GRADUATE COURSES

- Department of Chemistry/“Chemistry Education, Information and Communication Technology and Education for Sustainable Development”/ Methodology of Educational Research
- Department of Chemistry/“Chemistry Education, Information and Communication Technology and Education for Sustainable Development”/ Special topics and Experiments in Organic Chemistry and Biochemistry
- «Department of Chemistry/“Chemistry Education, Information and Communication Technology and Education for Sustainable Development”/ Practical training

## RESEARCH GRANTS

- COSY THINKING, “Enhancing higher education on COmplex Systems THINKING for sustainable development”/ Dionysios Koulougliotis, Ionian University/ Erasmus+ Programme – Strategic Partnerships for Higher Education/ 2020-2023
- Education for Sustainable Development in Protected Areas/ Michael Scoullou/ Erasmus Intensive Programme/2013-2014
- ““Chemistry Is All Around NETWORK”/ Dionysios Koulougliotis, TEI of Ionian Islands/ European Commission Lifelong Learning Programme Comenius/2011-2014
- «Synthesis of fluorogenic peptides for the evaluation of human and rat renin activities” /Επιστημονικός Υπεύθυνος Creton Kalfoglou/Novartis Pharmaceutical Corp. /2006
- “Kinetic characterization of renin inhibitors”/ Tzougraki Chrysa/ Special Account for Research Grants,

NKUA, 2003-2004

- “Solid phase synthesis of new intramolecularly quenched fluorogenic substrates and their use in protease assays”/ Tzougraki Chrysa/ Special Account for Research Grants, NKUA, 2000-2003
- Synthesis of New Fluorogenic linkers and their application on solid phase synthesis of substrates for proteases ”/ Tzougraki Chrysa/\_Special Account for Research Grants, NKUA, 1998-2000

#### ADDITIONAL INFORMATION

- Presentations at conferences: **13**
- Supervision of undergraduate students: **3**

#### SELECTED PUBLICATIONS (link OF PUBLICATIONS)

- Paschalidou, K.**, Salta, K., & Koulougliotis, D. (2022). Exploring the connections between systems thinking and green chemistry in the context of chemistry education: A scoping review. *Sustainable Chemistry and Pharmacy*, **29**, 100788. <https://doi.org/10.1016/j.scp.2022.100788>
- Salta, K., **Paschalidou, K.**, Tsetseri, M., & Koulougliotis, D. (2022). Shift from a Traditional to a Distance Learning Environment during the COVID-19 Pandemic: University Students' Engagement and Interactions. *Science & Education*. **31**(1), 93–122. <https://doi.org/10.1007/s11191-021-00234-x>
- Paschalidou, K.**, Neumann,U., Gerhartz, B., Tzougraki C., (2004). Highly sensitive intramolecularly quenched fluorogenic substrates for renin based on the combination of L-2-amino-3-(7-methoxy-4-coumaryl)propionic acid with 2,4-dinitrophenyl groups at various positions, *Biochemical Journal*, **382 (3)**, 1031–1038. <https://doi.org/10.1042/BJ20040729>