Katerina Paschalidou

Laboratory Teaching Staff

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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
- «Department of Chemistry/"Chemistry Education, Information and Communication Technology and Education for Sustainable Development"/ Chemistry Education I
- «Department of Chemistry/"Chemistry Education, Information and Communication Technology and Education for Sustainable Development"/ Chemistry Education II

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 Scoullos/ 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" /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: **17**
- • Supervision of undergraduate students: **5**

SELECTED PUBLICATIONS (link OF PUBLICATIONS)

Koulougliotis D., **Paschalidou K**., & Salta K. (2024) Secondary School Students' Engagement with Environmental Issues via Teaching Approaches Inspired by Green Chemistry. *Sustainability*, ***16***(16), 7052. https://doi.org/10.3390/su16167052

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

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