

CURRICULUM VITAE

Dr Nela Malatesti

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EDUCATION

Ph.D. in bio-organic chemistry at the University of Hull, UK. Thesis title: A Study of Reactions of Sulphur Containing Dipolarophiles with 1,3-Dipoles.

POSTDOCTORAL TRAINING

Research Associate in the group of Dr Ross Boyle (Photobiology and Photomedicine Group) at the University of Hull (UK). Development of targeted porphyrin bioconjugates for phototherapy and imaging.

GRANTS

- Ministry of Science and Technology of Republic of Croatia for a Ph.D. study abroad.

- Welcome Trust, Grant for post-doctoral study (Project leader Dr Ross Boyle)

PUBLICATIONS

1. D. Matulja, K. Wittine, **N. Malatesti**, S. Laclef, M. Turks, M. Kolympani, G. Ambrožić, D. Markovic, "Marine Natural Products with High Anticancer Activities", *Current Medicinal Chemistry*, 2019, 26, 40, DOI: 10.2174/0929867327666200113154115
2. I. Viduka, G. Begić, **N. Malatesti**, I. Gobin, „Fotodinamički učinak porfirina na legionele“, *Hrvatske vode*, 2019, 107, 21-28.
3. A. Lesar, G. Begić, **N. Malatesti**, I. Gobin, „Innovative approach in *Legionella* water treatment with photodynamic cationic amphiphilic porphyrin“, *Water Science and Technology: Water Supply*, 2019, 19, 5, 1473-1479. DOI: 10.2166/ws.2019.012
4. J. Sandland, **N. Malatesti**, R. Boyle, Porphyrins and Related Macrocycles: Combining photosensitization with radio- or optical-imaging for next generation theranostic agents, *Photodiagnosis and Photodynamic Therapy*, **2018**, 23, 281-294, DOI: 10.1016/j.pdpdt.2018.06.023

5. M. Jelovica, P. Grbčić, M. Mušković, M. Sedić, S. Kraljević Pavelić, M. Lončarić, **N. Malatesti***, In Vitro Photodynamic Activity of *N*-Methylated and *N*-Oxidised Tripyridyl Porphyrins with Long Alkyl Chains and Their Inhibitory Activity in Sphingolipid Metabolism, *ChemMedChem*, **2018**, *13*, 360-372, DOI: 10.1002/cmdc.201700748
6. **N. Malatesti***, I. Munitic, I. Jurak, Porphyrin-based cationic amphiphilic photosensitisers as potential anticancer, antimicrobial and immunosuppressive agents, *Biophysical reviews*, **2017**, *9*, 2, 149-168, DOI: 10.1007/s12551-017-0257-7
7. **N. Malatesti***, A. Harej, S. Kraljević Pavelić, M. Lončarić, H. Zorc, K. Wittine, U. Andjelkovic, Dj. Josic, "Synthesis, characterisation and in vitro investigation of photodynamic activity of 5-(4-octadecanamidophenyl)-10,15,20-tris(*N*-methylpyridinium-3-yl)porphyrin trichloride on HeLa cells using low light fluence rate", *Photodiagnosis and Photodynamic Therapy*, **2016**, *15*, 115-126, DOI: 10.1016/j.pdpdt.2016.07.003
8. M. Šrajer Gajdošik, S. Kovač, **N. Malatesti**, E. Müller and D. Josić, "Ion-Exchange Sample Displacement Chromatography as a Method for Fast and Simple Isolation of Low- and High-Abundance Proteins from Complex Biological Mixtures", *Food Technology and Biotechnology*, **2014**, *52*, 1, 58-63.
9. V. Gvozdić, J. Brana, **N. Malatesti** and D. Roland, "Principal component analysis of surface water quality data of the River Drava in eastern Croatia (24 year survey)", *Journal of Hydroinformatics*, **2012**, *14*, 4, 1051-1060.
10. V. Gvozdić, J. Brana, **N. Malatesti**, D. Puntarić, D. Vidosavljević and D. Roland, "An analysis of the pollution problem in Slavonski Brod (Eastern Croatia)", *Collegium Antropologicum*, **2011**, *35*, 4, 1135-1141.
11. M. Medvidović-Kosanović, M. Samardžić, **N. Malatesti** and M. Sak-Bosnar, ,, Electroanalytical characterization of a copper(II)-rutin complex", *International Journal of Electrochemical Science*, **2011**, *6*, 4, 1075-1084.
12. K. Smith, **N. Malatesti**, N. Cauchon, D. Hunting, R. Lecomte, J. van Lier, J. Greenman and R. W. Boyle, "Mono- and tri-cationic porphyrin-monoclonal antibody conjugates: photodynamic activity and mechanism of action", *Immunology*, **2011**, *132*, 2, 256-265.
13. C. Staneloudi, K. A. Smith, R. Hudson, **N. Malatesti**, H. Savoie, R. W. Boyle and J. Greenman, "Development and characterization of novel photosensitizer: scFv conjugates for use in photodynamic therapy of cancer", *Immunology*, **2007**, *120*, 512-517.
14. G. S. Coumbarides, J. Eames, M. Motevalli, **N. Malatesti** and Y. Yohannes, "(+)-(4*R*,5*S*)-4-Methyl-5-phenyl-3-[2(*S*)-phenyl-propionyl]oxazolidin-2-one", *Acta Crystallographica Section E: Structure Reports Online*, **2006**, E62, o4032-o4034.
15. G. S. Coumbarides, M. Dingjan, J. Eames, M. Motevalli and **N. Malatesti**, "(+)-(4*R*,5*S*)-3-[2(*S*)-(4-Isobutylphenyl)propionyl]-4-methyl-5-phenyloxazolidin-2-one", *Acta Crystallographica Section E: Structure Reports Online*, **2006**, E62, o4035-o4036.
16. S. Chavda, J. Eames, A. Flinn, M. Motevalli and **N. Malatesti**, "(–)-(4*R*,5*S*)-4-Methyl-3-[2(*R*)-(4-methyl-phenyl)propionyl]-5-phenyloxazolidin-2-one", *Acta Crystallographica Section E: Structure Reports Online*, **2006**, E62, o4037-o4038.
17. S. Chavda, J. Eames, A. Flinn, M. Motevalli and **N. Malatesti**, "(–)-(4*R*,5*S*)-3-[2(*R*)-(4-Chlorophenyl)propionyl]-4-methyl-5-phenyloxazolidin-2-one", *Acta Crystallographica Section E: Structure Reports Online*, **2006**, E62, o4039-o4040.

18. G. S. Coumbarides, J. Eames, M. Motevalli, **N. Malatesti** and Y. Yohannes, "(+)-(4*R*,5*S*)-4-Methyl-3-[2(*R*)-phenoxypropionyl]-5-phenyloxazolidin-2-one", *Acta Crystallographica Section E: Structure Reports Online*, **2006**, E62, o4041-o4042.
19. S. Chavda, J. Eames, M. Motevalli and **N. Malatesti**, "(-)-(4*R*,5*S*)-4-Methyl-3-[2(*S*)-phenoxypropionyl]-5-phenyloxazolidin-2-one", *Acta Crystallographica Section E: Structure Reports Online*, **2006**, E62, o4043-o4045.
20. **N. Malatesti***, A. N. Boa, S. Clark and R. Westwood, "1,3-Dipolar cycloaddition reactions of benzo[*b*]thiophene 1,1-dioxide with azomethine ylides", *Tetrahedron Letters*, **2006**, 47, 29 (July), 5139-5142.
21. **N. Malatesti**, K. Smith, H. Savoie, J. Greenman and R. W. Boyle, "Synthesis and *in vitro* investigation of cationic 5, 15-diphenyl porphyrin-monoclonal antibody conjugates as targeted photodynamic sensitizers", *International Journal of Oncology*, **2006**, 28, 6 (June), 1561-1569.
22. **N. Malatesti**, R. Hudson, K. Smith, H. Savoie, K. Rix, K. Welham and R. W. Boyle, "Isothiocyanato Boron Dipyrromethenes - The First BODIPY Analogues of Fluorescein Isothiocyanate (FITC)", *Photochemistry and Photobiology*, **2006**, 82, 3 (May), 746-749; doi: 10.1562/2006-01-10-RA-769
23. **N. Peša***, C. J. Welch and A. N. Boa, "An efficient preparation of β -dimethylaminovinyl sulfone and sulfoximide, and investigation of their reactivity as dipolarophiles", *Journal of Heterocyclic Chemistry*, **2005**, 42, 599-607.
24. S. Archibald, A. N. Boa and **N. Peša**, "On the sulfimidation of benzo[*b*]thiophene", *Chem. Commun.*, **2003**, 1736-1737.