

Curriculum vitae

PERSONAL DATA

NAME: Amélia Pilar Grases Santos Silva Rauter

PLACE AND DATE OF BIRTH: Lisboa, 1 July 1950

NATIONALITY: Portuguese

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INSTITUTIONAL ADDRESS: Departamento de Química e Bioquímica, Faculdade de Ciências, Universidade de Lisboa, Edifício C8, 5º Piso, Campo Grande, 1749-016 Lisboa, Portugal

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ACADEMIC QUALIFICATIONS

2002 Habilitation (Agregação) at the group of Chemistry of the Faculdade de Ciências da Universidade de Lisboa.

1998 European Chemist, title given by the European Chemist registration Board, established in 1992 by the European Communities Chemistry Council.

1982 Doktor der Technischen Wissenschaft at Technische Universität Graz - Austria with summa cum laude. The thesis was entitled: "Verzweigungsreaktionen an Bicyclischen D-Hexofuranose Derivaten. Synthese von 5-Desoxy-1,2-O-isopropyliden-5-C-methylen-alpha-D-xylo-hexofuranuronon-6,3-lacton" In the final examinations in Organic Chemistry and in Biochemistry my marks were 1 (the maximum) (1st of July, 1982). This Degree was stated equivalent to "Doutor em Química" by the Universidade Técnica de Lisboa in its Instituto Superior Técnico, 1984.

1974 Graduated in Chemical Engineering at Instituto Superior Técnico of Universidade Técnica de Lisboa with final mark of 16/20.

PROFESSIONAL EXPERIENCE

2009 Invited Professor at the Université Paris Sud 11, Orsay, France, June 2009.

2003- Associate Professor of Departamento de Química e Bioquímica, Faculdade de Ciências da Universidade de Lisboa (since 10th of March, 2003)

1984-2003 Lecturer of Departamento de Química e Bioquímica, Faculdade de Ciências da Universidade de Lisboa.

1975-1983 Assistant Professor of Organic Chemistry at Institut für Organische Chemie der Technischen Universität Graz - Austria

1972-1974 Student teacher at Instituto de Física e Matemática, developing liquid crystal synthesis and nuclear magnetic resonance applied to liquid crystals.

OTHER RELEVANT FUNCTIONS

International Level

- **Editor** of Specialist Periodical Reports: Carbohydrate Chemistry, Chemical and Biological Approaches, since 2008, edited by the Royal Society of Chemistry.

- Member of the **Editorial Board** of Carbohydrate Research (1999-2005); Journal of Carbohydrate Chemistry, since 1998; Natural Products – An Indian Journal, since 2006; Mediterranean Journal of Chemistry, since 2011.

- **Referee** of Pure and Applied Chemistry, Journal of Organic Chemistry, Journal of Carbohydrate Chemistry, Carbohydrate Research, Journal of Molecular Structure, Catalysis Communications, Journal of Chromatography A, Journal of Herbs, Spices & Medicinal Plants, Journal of the Science of Food and Agriculture, Current Medicinal Chemistry, Journal of Food Biochemistry, Food Chemistry, European Journal of Medicinal Chemistry, J. Ethnopharmacology.

- Member of the **International Evaluation Panel** of The CSIC Action Plan of 130 CSIC research Institutes and Centres for 2010-13, January 2009, Spain

- **Member of the Steering Committee and Executive for Glycochemistry** of the National Science Foundation network **Euroglycosciences Forum**

-Serves IUPAC as:

-Titular member of **Division (VIII) of Chemical Nomenclature and Structure Representation** (2012-2013)

-Associate member of **the International Committee on Terminology, Nomenclature and Symbols of IUPAC**

National representative at **Division (III) of Organic and Biomolecular Chemistry of IUPAC** (2003-2007)

Secretary of the Division III Subcommittee on Biomolecular Chemistry

Chair of the project on Recommendations on Nomenclature of Flavonoids (2009-018-2-800).

-National representative at the **Internacional Carbohydrate Organisation**

-National representative at the **European Carbohydrate Organisation**

-**President** of the European Carbohydrate Organisation (2001-2003)

National level

-Had the initiative to create the **Master in Chemistry (Chemistry, Health and Nutrition)** of Department of Chemistry and Biochemistry of FCUL and participated in its implementation (2006)

-Proposed Prof. Pierre Sinaÿ for the degree of Dr. *Honoris causa* of the University of Lisbon (2005)

-**Coordinator** of the Graduation in Chemistry of Department of Chemistry and Biochemistry of FCUL (2003-2004)

-Has funded and has been the **Coordinator** of the Carbohydrate Chemistry Group of the Centre of Chemistry and Biochemistry of FCUL (2002-)

- Has funded and was the **Coordinator** of the Portuguese Carbohydrate Chemistry Group of the Portuguese Society of Chemistry (1995-2001)

- Member of the **evaluation panel** of research projects and grants for the Instituto de Investigação Interdisciplinar da Universidade de Coimbra.

-Member of the **evaluation panel** of bilateral cooperation research projects funded by CRUP (Rektors Council of the Portuguese Universities)

SUPERVISION OF Ph.D. THESIS, OTHERS

-**Supervised** 17 Ph.D. Theses, 7 Post-Doc grants, and a number of master thesis and undergraduate projects.

- **Member of 16 international Ph.D. jurys (examiner) and 29 national Ph.D. jurys.**

PUBLICATIONS

Author of 115 publications and 9 patents.

Publications submitted to peer review (2005-2011)

2011

1. L. Amorim, F. Marcelo, C. Rousseau, L. Nieto, J. Jiménez-Barbero, J. Marrot, A. P. Rauter, M. Sollogoub, M. Bols, Y. Blériot, *Direct experimental evidence for the high chemical reactivity of α - and β -xylopyranosides adopting a ${}^{2,5}B$ conformation in glycosyl transfer*, *Chem. Eur. J.*, **2011**, 17(26), 7345-7356.
2. O. Pinto, J. Sardinha, P. D. Vaz, F. Piedade, M. J. Calhorda, R. Abramovitch, N. Nazareth, M. Pinto, M. S. J. Nascimento, A. P. Rauter, *Synthesis of tetrahydronaphthalene carboxylates by intramolecular cyclization of ethyl ω -(azidophenyl) 2-phenylalkanoates and evaluation of the growth inhibition of human tumor cell lines*, *J. Med. Chem.*, **2011**, 54(9), 3175-3187.
3. A. C. Araújo, A. P. Rauter, F. Nicotra, C. Airoidi, B. Costa, L. Cipolla, *Sugar-based enantiomeric and conformationally constrained pyrrolo[2,1-c][1,4]-benzodiazepines as potential GABAA ligands*, *J. Med. Chem.*, **2011**, 54(5), 1266-1275.
4. A.-C. Simão, S. Silva, A. P. Rauter, P. Rollin, A. Tatibouet, *Controlled Garegg conditions for selective iodination on pyranose templates*, *Eur. J. Org. Chem.*, **2011**, 2011(12), 2286-2292.
5. N. M. Xavier, M. Goulart, A. Neves, J. Justino, S. Chambert, A. P. Rauter, Yves Queneau, "Synthesis of sugars embodying conjugated carbonyl systems and related triazole derivatives from carboxymethyl glycoside lactones. Evaluation of their antimicrobial activity and toxicity", *Bioorg. Med. Chem.*, **2011**, 19(2), 926-938.
6. N. M. Xavier, Y. Queneau, A. P. Rauter, *Exploitation of furanoid 5-azido-3-C-branched-chain sugars as precursors towards highly functionalized nitrogen-containing carbohydrate derivatives*, *Eur. J. Org. Chem.*, **2011**, 2011(4), 713-720.
7. R. G. Santos, A. R. Jesus, J. M. Caio, A. P. Rauter, *Fries-type reactions for the C-glycosylation of phenols*, *Curr. Org. Chem.*, **2011**, 15(1), 128-148.
8. A. M. F. Palavra, J. P. Coelho, J. G. Barroso, A. P. Rauter, J. M. N. A. Fareleira, A. Mainar, J. S. Urieta, B. P. Nobre, L. Gouveia, R. L. Mendes, J. M. S. Cabral, J. M. Novais, *Supercritical carbon dioxide extraction of bioactive compounds from microalgae and volatile oils from aromatic plants*, *J. Supercritical Fluids*, **2011**, 60, 21-27.
9. S. D. Lucas, H. Fischer, A. Alker, A. P. Rauter, H. P. Wessel, *Libraries on Oxetane δ -Amino Acid Scaffolds: Syntheses and Evaluation of Physicochemical and Metabolic Properties*, *J. Carbohydr. Chem.* **2011**, 30, 498-548.
10. L. Custodio, T. Justo, L. Silvestre, A. Barradas, C. V. Duarte, H. Pereira, L. Barreira, A. P. Rauter, F. Albericio, J. Varela, *Microalgae of different phyla display antioxidant, metal chelating and*

- acetylcholinesterase inhibitory activities*, *Food Chem.* **2011**, in press (DOI: 10.1016/j.foodchem.2011.08.047).
11. A. P. Rauter, C. Dias, A. Martins, I. Branco, N. R. Neng, J. M. Nogueira, M. Goulart, F. V.M. Silva, J. Justino, C. Trevitt, J. P. Waltho, *Non-toxic Salvia sclareoides* Brot. extracts as a source of functional food ingredients: phenolic profile, antioxidant activity and prion binding properties, *Food Chem.* **2011**, accepted manuscript (DOI:10.1016/j.foodchem.2011.12.028).
 12. J. A. Figueiredo, M. I. Ismael, J. M. Pinheiro, A. M. S. Silva, J. Justino, F. M. S. Silva, M. Goulart, D. Mira, M. E. M. Araujo, R. Campoy, A. P. Rauter, *Facile synthesis of oxo-/thioxopyrimidines and tetrazoles C-C linked to sugars as novel non-toxic antioxidant acetylcholinesterase inhibitors*, *Carbohydr. Res.* **2011**, in press (DOI:10.1016/j.carres.2011.11.006).
 13. N. M. Xavier, A. P. Rauter, Environmentally friendly approaches towards synthesis of new antibiotics from sugars, *PAC:Green Chem.* **2011**, accepted for publication.

Book Chapters

14. J. Sardinha, A. P. Rauter, M. Sollogoub, Y. Bleriot, *TIBAL Induced Rearrangement: Synthesis of gem-Difluorocarbogalactose*, *Carbohydrate Chemistry: Proven Methods*, Vol. 1, Ed. P. Kovac, Taylor & Francis, Boca Raton, Florida, **2011**, in press.
15. N. M. Xavier, S. Kopitzki, A. P. Rauter, *Pyranose-Fused Butenolides: An Expedient Preparation from Furanose Synthons*, *Carbohydrate Chemistry: Proven Methods*, Vol. 1, Ed. P. Kovac, Taylor & Francis, Boca Raton, Florida, **2011**, in press.
16. L. Cipolla, B. La Ferla, A. P. Rauter, F. Nicotra, *Regioselective debenzoylation of C-glycosylpropene*, *Carbohydrate Chemistry: Proven Methods*, Vol. 1, Ed. P. Kovac, Taylor & Francis, Boca Raton, Florida, **2011**, in press.

2010

17. N. M. Xavier, A. P. Rauter, Y. Queneau, *Carbohydrate-Based Lactones: Synthesis and Applications*. *Top. Curr. Chem.*, **2010**, 295, 19-62.
18. P. J. A. Madeira, N. M. Xavier, A. P. Rauter, M. H. Florêncio, *C-C-linked γ -lactones: a combined ESI FTICR MS and semi-empirical calculations study*, *J. Mass Spectrom.*, **2010**, 45(10), 1167-1178.
19. M. T. Cabrita, C. Vale, A. P. Rauter, *Halogenated compounds from marine algae*, *Marine Drugs*, **2010**, 8(8), 2301-2317.
20. P. J. A. Madeira, A. M. Rosa, N. M. Xavier, A. P. Rauter, M. H. Florêncio, *Electrospray ionization mass spectrometric analysis of newly synthesized α,β -unsaturated gamma-lactones fused to sugars*, *Rapid Commun. Mass Spectrom.* **2010**, 24(7), 1049-1058.
21. A. P. Rauter, N. M. Xavier, S. D. Lucas, M. Santos, *Zeolites and Other Silicon-Based Promoters in Carbohydrate Chemistry*, *Adv. Chem. Biochem.* **2010**, 63, 29-99.
22. A. C. Simao, A. Tatibouet, A. P. Rauter, P. Rollin, *Selective iodination of vicinal cis-diols on ketopyranose templates*, *Tetrahedron Lett.* **2010**, 51(35), 4602-4604.
A. P. Rauter, A. Martins, C. Borges, H. Mota-Filipe, R. Pinto, B. Sepodes, J. Justino, *Antihyperglycaemic and protective effects of flavonoids on streptozotocin-induced diabetic rats*, *Phytother. Res.*, **2010**, 24, S133-S138.
23. J. Salta, A. Martins, R. G. Santos, N. R. Neng, J. M.F. Nogueira, J. Justino, A. P. Rauter, *Phenolic composition and antioxidant activity of Rocha pear and other pear cultivars – A comparative study*, *J. Functional Foods*, **2010**, 2, 153-157.

2009

24. N. M. Xavier, S. D. Lucas, A. P. Rauter. *Zeolites as efficient catalysts for key transformations in carbohydrate chemistry*, *J. Mol. Catal. A: Chem.* **2009**, 305(1-2), 84–89.
25. N. M. Xavier, P. J. A. Madeira, M. H. Florêncio, A. P. Rauter, *Synthetic Approaches to Novel Thiosugar Scaffolds Containing α,β -Unsaturated Carbonyl Groups*, *Eur. J. Org. Chem.* **2009**, 29, 4983-4991.
26. *F. Marcelo, F. V. M. Silva, M. Goulart, J. Justino, P. Sinay, Y. Bleriot, A. P. Rauter, *Synthesis of novel purine nucleosides towards a selective inhibition of human butyrylcholinesterase*, *Bioorg. Med. Chem.* **2009**, 17(14), 5106-5116.
27. H. Q. Li, F. Marcelo, C. Bello, P. Vogel, T. D. Butters, A. P. Rauter, Y. M. Zhang, M. Sollogoub, Y. Bleriot, *Design and synthesis of acetamido tri- and tetra-hydroxyazepanes: Potent and selective beta-N-acetylhexosaminidase inhibitors*, *Bioorg. Med. Chem.* **2009**, 17(15), 5598-5604.
28. F. Marcelo, R. Abou-Jneid, M. Sollogoub, J. Marrot, A. P. Rauter, Y. Blériot, *Total Synthesis of the Epimer at C-6' of the Miharamycin B Framework*, *SYNLETT*, **2009**, 8, 1269-1272.
29. F. V. M. Silva, A. Martins, J. Salta, N. R. Neng, J. M. F. Nogueira, D. Mira, N. Gaspar, J. Justino, C. Grosso, J. S. Urieta, A. M. S. Palavra, A. P. Rauter, *Phytochemical Profile and Anticholinesterase and Antimicrobial Activities of Supercritical versus Conventional Extracts of *Satureja montana**, *J. Agric. Food Chem.* **2009**, 57(24), 11557-11563.

30. A.P. Rauter, A. Martins, R. Lopes, J. Ferreira, L. M. Serralheiro, M.-E. Araújo, C. Borges, J. Justino, F. V. Silva, M. Goulart, J. Thomas-Oates, J. A. Rodrigues, E. Edwards, J. P. Noronha, R. Pinto, H. Mota-Filipe, *Bioactivity studies and chemical profile of the antidiabetic plant Genista tenera*, *J. Ethnopharmacol.* **2009**, 122(2), 384–393.
31. S. D. Lucas, A. P. Rauter, J. Schneider, H.-P. Wessel, *Synthesis of 3-fluoro-oxetane δ -amino acids*, *J. Carbohydr. Chem.* **2009**, 28(7-8), 431–446.
32. A. P. Rauter, A. Martins, R. Mignon, C. Sepúlveda, J. Almeida, M. Meireles, “Actividade antitumoral de um extracto de *Artemisia gorgonum* e determinação do seu perfil fitoquímico”, *Revista de Fitoterapia*, **2009**, 9(S1), 152.

2008

33. S. Silva, B. Sylla, F. Suzenet, A. Tatibouet, A. P. Rauter, P. Rollin, *Oxazolinethiones and oxazolidinethiones for the first copper-catalyzed desulfurative cross-coupling reaction and first Sonogashira applications*, *Org. Lett.* **2008**, 10(5), 853-856.
34. F. Marcelo, J. Jimenez-Barbero, J. Marrot, A. P. Rauter, P. Sinaÿ, Y. Blériot, *Stereochemical Assignment and First Synthesis of the Core of Miharamycin Antibiotics*, *Chem.-Eur. J.*, **2008**, 14(32), 10066-10073.
35. N. M. Xavier, S. Silva, P. J. A. Madeira, M. H. Florêncio, F. V. M. Silva, J. Justino, J. Thiem, A. P. Rauter, *Synthesis and Biological Evaluation of Sugars Containing α,β -Unsaturated γ -Lactones*, *Eur. J. Org. Chem.* **2008**, 36, 6134-6143.
36. A. Ramos, S. Coesel, A. Marques, M. Rodrigues, A. Baumgartner, J. Noronha, A. Rauter, B. Brenig, J. Varela, *Isolation and characterization of a stress-inducible *Dunaliella salina* Lcy-beta gene encoding a functional lycopene beta-cyclase*, *Appl. Microbiol. Biotech.* **2008**, 79(5), 819-828.
37. F. V. M. Silva, M. Goulart, J. Justino, A. Neves, F. Santos, J. Caio, S. Lucas, A. Newton, D. Sacoto, E. Barbosa, M. S. Santos, A.P. Rauter, *Alkyl deoxy-arabino-hexopyranosides: Synthesis, surface properties, and biological activities*, *Bioorg. Med. Chem.* **2008**, 16(7), 4083-4092.
38. S. Silva, S. Tardy, S. Routier, F. Suzenet, A. Tatibouet, A. P. Rauter, P. Rollin, *1,3-Oxazoline- and 1,3-Oxazolidine-2-thiones as Substrates in Direct Modified Stille and Suzuki Cross-coupling*, *Tetrahedron Lett.* **2008**, 49(39), 5583-5586.
39. J. Sardinha, A. P. Rauter, M. Sollogoub, *First Synthesis of 5-Fluoro-(+)-MK7607, its 1-Epimer and 6-Deoxy Derivative*, *Tetrahedron Lett.*, **2008**, 49(38), 5548-5550.
40. S. Silva, A. C. Simão, A. Tatibouët, P. Rollin, A. P. Rauter, *HSCN condensation with ulosides: preferred formation of carbohydrate-fused hemiaminals of the 4-hydroxy-1,3-oxazolidine-2-thione type*, *Tetrahedron Lett.* **2008**, 49, 682-686.
41. N. M. Xavier, A. P. Rauter, *Sugars containing α,β -unsaturated carbonyl systems: synthesis and their usefulness as scaffolds in Carbohydrate Chemistry*, *Carbohydr. Res.* **2008**, 343(10-11), 1523-1539.
42. S. D. Lucas, A. P. Rauter, H. P. Wessel, *Synthesis of 3-methoxyoxetane δ -amino acids with D-lyxo, D-ribo, and D-arabino configurations*, *J. Carbohydr. Chem.* **2008**, 27(3), 172-187.

2007-2005

43. N. M. Xavier, A. P. Rauter, *Easy and stereoselective approach to alpha,beta-unsaturated gamma-lactones fused to pyranoses from furanose scaffolds*, *Org. Lett.* **2007**, 9(17), 3339-3341.
44. A. P. Rauter, T. Almeida, N. M. Xavier, F. Siopa, A. I. Vicente, S. D. Lucas, J. P. Marques, F. Ramôa Ribeiro, M. Guisnet, M. J. Ferreira, *Acid zeolites as efficient catalysts for O- and S-glycosylation*, *J. Mol. Catal. A: Chem.* **2007**, 275, 206–213.
45. J. Sardinha, S. Guieu, A. Deleuze, M. C. Fernández-Alonso, A. P. Rauter, P. Sinaÿ, J. Marrot, J. Jiménez-Barbero, M. Sollogoub, *gem-Difluoro-carbasugars, the cases of mannopyranose and galactopyranose*, *Carbohydr. Res.* **2007**, 342(12-13), 1689-1703.
46. A. P. Rauter, I. Branco, R. G. Lopes, J. Justino, F. V. M. Silva, J. P. Noronha, E. J. Cabrita, I. Brouard, J. Bermejo, *A new lupene triterpenetriol and anticholinesterase activity of *Salvia sclareoides**, *Fitoterapia*, **2007**, 78(7-8), 474-481.
47. A. P. Rauter, R. G. Lopes, A. Martins, *C-Glycosylflavonoids: Identification, bioactivity, and synthesis*, *Nat. Prod. Commun.*, **2007**, 2(11), 1175-1196.
48. A.P. Rauter, T. Almeida, A. I. Vicente, V. Ribeiro, J. C. Bordado, J. P. Marques, F. Ramôa-Ribeiro, M. J. Ferreira, C. Oliveira, M. Guisnet, *Reactions of N-, S- and O-nucleophiles with 3,4,6-tri-O-benzyl-D-glucal mediated by triphenylphosphane hydrobromide versus those with HY zeolite*, *Eur. J. Org. Chem.*, **2006**, 10, 2429-2439.
49. E. Edwards, J. Rodrigues, J. Ferreira, D. Goodall, A. Rauter, J. Justino, J. Thomas-Oates, *Capillary electrophoresis-mass spectrometry characterisation of secondary metabolites from the antihyperglycaemic plant *Genista tenera**, *Electrophoresis*, **2006**, 27(11), 2164-2170.
50. N. Leconte, S. Silva, A. Tatibouët, A. P. Rauter, P. Rollin, *Aromatic or chiral heterocycle - Balance between 1,3-oxazoline-2-thione and 1,3-oxazolidine-2-thione*, *SYNLETT*, **2006**, 2, 301-305.

51. S. D. Lucas, H. Iding, A. Alker, H. P. Wessel, A. P. Rauter, *Oxetane δ -amino acids: Chemoenzymatic synthesis of 2,4-anhydro-5-N-(t-butoxycarbonyl)amino-D-lyxonic acid*, *J. Carbohydr. Chem.*, **2006**, 25(2-3), 187-196.
52. A. C. Simão, B. Lynikaite-Pukleviciene, C. Rousseau, A. Tatibouet, S. Cassel, A. Sackus, A. P. Rauter, P. Rollin, *1,2-Glycerol Carbonate: A Versatile Renewable Synthone*, *Lett. Org. Chem.*, **2006**, 3(10), 744-748. FI: 0,744; NC: 6.
53. A. P. Rauter, A. Martins, C. Borges, J. Ferreira, J. Justino, M.-R. Bronze, A. V. Coelho, Y. H. Choi, R. Verpoorte, *Liquid chromatography-diode array detection-electrospray ionisation mass spectrometry/nuclear magnetic resonance analyses of the anti-hyperglycemic flavonoid extract of Genista tenera - Structure elucidation of a flavonoid-C-glycoside*, *J. Chromatogr. A*, **2005**, 1089(1-2), 59-64.
54. J. Justino, A. P. Rauter, T. Canda, R. Wilkins, E. Matthews, *Sugar derivatives containing oxiranes and alpha,beta-unsaturated gamma-lactones as potential environmentally friendly insecticides*, *Pest Manag. Sci.* **2005**, 61, 985-990.
55. A.P. Rauter, S. Lucas, T. Almeida, D. Sacoto, V. Ribeiro, J. Justino, A. Neves, F. V. M. Silva, M. C. Oliveira, M. J. Ferreira, M.-S. Santos, E. Barbosa, *Synthesis, surface active and antimicrobial properties of new alkyl 2,6-dideoxy-L-arabino-hexopyranosides*, *Carbohydr. Res.*, **2005**, 340(2), 191-201.
56. A. Martins, M. Wink, A. Tei, M. Brum-Bousquet, F. Tillequin, A. P. Rauter, *A phytochemical study of the quinolizidine alkaloids from Genista tenera by gas chromatography-mass spectrometry*, *Phytochem. Anal.*, **2005**, 16(4), 264-266.
57. A. P. Rauter, M. M. Filipe, C. Prata, J. P. Noronha, M. A. M. Sampayo, J. Justino, J. Bermejo, *A new dihydroxysterol from the marine phytoplankton Diacronema sp.*, *Fitoterapia*, **2005**, 76(5), 433-438.
58. Z.Tostão, J. P. Noronha, E. J. Cabrita, J. Medeiros, J. Justino, J. Bermejo, A. P. Rauter, *A novel pentacyclic triterpene from Leontodon filii*, *Fitoterapia*, **2005**, 76(2), 173-180.
59. A.P. Rauter, M. Padilha, J. A. Figueiredo, M. I. Ismael, J. Justino, H. Ferreira, M. J. Ferreira, C. Rajendran, R. Wilkins, P. Vaz, M. J. Calhorda, *Bioactive pseudo-C-nucleosides containing thiazole, thiazolidinone, and tetrazole rings*, *J. Carbohydr. Chem.*, **2005**, 24(3), 275-296.

Other publications

1. "Nomenclatura de Hidratos de Carbono (Recomendações 1996). Tradução Portuguesa nas Variantes Europeia e Brasileira." [Translation of: "Nomenclature of Carbohydrates (Recommendations 1996)". Prepared for publication by A. McNaught, Carbohydrate Research 1997, 297(1), 1-90]. L. Bento, M. Caldeira, M. A. Coimbra, J. A. Figueiredo, B. J. Herold, M. I. Ismael, A. Moreira-da-Silva, A. P. Rauter, A. Relva, J. A. Rosário-Rodrigues, Ed. LIDEL/Sociedade Portuguesa de Química, **2010**.
2. A. P. Rauter, E. Gaspar, J. P. Noronha, A. Escudeiro, "Plantas Medicinales Iberoamericanas", M. H. Gupta, Ed., Serie de Ciencia y Tecnologia, No 158, Bogota, Colombia, 2008.

Books (editor)

Editor of the RSC Book Series: Specialist Periodical Reports: Carbohydrate Chemistry (2008 -):

1. *Specialist Periodical Reports: Carbohydrate Chemistry - Chemical and Biological Approaches*, Vol. 37, A. Pilar Rauter, T. K. Lindhorst, Eds., *Cambridge: The Royal Society of Chemistry*, **2011**.
2. *Specialist Periodical Reports: Carbohydrate Chemistry - Chemical and Biological Approaches*, Vol. 36, A. Pilar Rauter, T. K. Lindhorst, Eds., *Cambridge: The Royal Society of Chemistry*, **2010**.
3. *Specialist Periodical Reports: Carbohydrate Chemistry - Chemical and Biological Approaches*, Vol. 35, A. Pilar Rauter, T. K. Lindhorst, Eds., *Cambridge: The Royal Society of Chemistry*, **2009**.
4. **Editor of Carbohydrates in Sustainable Development I – Renewable Resources for Chemistry and Biotechnology**, *Topics in Current Chemistry*, Vol. 294, A. P. Rauter, P. Vogel, Y. Queneau, Eds., Berlin Heidelberg: Springer, **2010**.
5. **Editor of Carbohydrates in Sustainable Development II – A Mine for Functional Molecules and Materials**, *Topics in Current Chemistry*, Vol. 295, A. P. Rauter, P. Vogel, Y. Queneau, Eds., Berlin Heidelberg: Springer, **2010**.