Curriculum Vitae

Personal information

Olaf Ludek

Work experience

1. Employer: Icelandic Medicines Agency
   - Start date: 082010
   - End date:
   - Position: Quality Assessor
   - Activities: Assessment of scientific documentation relating to the quality of drug substances and drug products in · National and European (MR/DC/CP) marketing authorizations applications and variations · Clinical trial applications and amendments to the IMPD · Scientific advise procedures
   - Country: Iceland
2. Employer: National Institutes of Health
   - Start date: 052009
   - End date: 072010
   - Position: Research Fellow
   - Activities: Investigations on fast and efficient synthetic strategies towards tumor associated carbohydrate antigens (TACAs) for use on glycan microarrays · Designing and conducting multistep organic syntheses from milligram to multigram scale · Purification and structure determination of organic compounds · Interpretation of biological test results · Preparation of manuscripts for publication
   - Country: United States
3. Employer: National Institutes of Health
   - Start date: 102005
   - End date: 052009
   - Position: Postdoctoral Fellow
   - Activities: Design, synthesis and biological evaluation of novel conformationally rigid nucleoside analogs for anticancer and antiviral chemotherapies · Designing and conducting multistep organic syntheses from milligram to multigram scale · Purification and structure determination of organic compounds · Interpretation of biological test results · Preparation of manuscripts for publication
   - Country: United States

Education and training

1. Subject: University of Hamburg, Institute of Organic Chemistry
   - Start date: 012001
   - End date: 072005
   - Qualification: Ph.D.
   - Organisation: Synthetic Organic Chemistry, Medicinal Chemistry Ph.D. Thesis: Synthesis of Carbocyclic Analogues of Thymidylate for Structure_Activity Investigations on Thymidylate Kinases
   - Country: Germany
2. Subject: University of Hamburg
   - Start date: 101994
   - End date: 092001
   - Qualification: Chemist (Diploma)
   - Organisation: Diploma Examination subjects: Organic, Inorganic and Phyisical Chemistry, as well as Biochemistry Diploma Thesis: Synthesis of Carbocyclic Analogues of Thymidine Intermediate Examination (08.04.1997) Examination subjects: Physics, Organic, Inorganic and Physical Chemistry
   - Country: Germany

Additional information

Publications

• Zhang, Y.L; Muthana, S.M; Farnsworth, D; Ludek, O.R.; Adams, K; Barchi, JJ; Gildersleeve, J.C. Enhances Epimerization of glycosylated Amino Acids During Solid_Phase Peptide Synthesis. J. Am. Chem. Soc. 2012, 134, 6316_6325. • Ludek, O.R.; Marquez, V.E. Synthesis of Conformationally North_Locked Pyrimidine Nucleosides Built on an Oxa_bicyclo[3.1.0]hexane Scaffold. J. Org. Chem. 2012, 77, 815_824. • Ludek, O.R.; Gu, W.; Gildersleeve, J.C. Activation of glycosyl trichloroactetimidates with perchloric acid on silica (HClO4_SiO2 provides enhanced alpha_selectivity; Carbohydr. Res. 2010, 345, 2074 – 2078. • Ludek, O.R.; Marquez, V.E. A greener enantioselective synthesis of the antiviral agent North_methanocarbathymidine (N_MCT) from 2_deoxy_D_ribose; Tetrahedron 2009, 65, 8461 – 8467. • Ludek, O.R.; Schroeder G.K.; Liao, C.; Wolfenden, R.; Marquez, V.E. Synthesis and conformationally analysis of locked carbocyclic analogues of 1,3_diazepinone riboside, a high_affinity cytidine deaminase inhibitor; J. Org. Chem. 2009, 74, 6212 – 6232. • Marquez, V.E.; Schroeder, G.K., Ludek, O.R.; Siddiqui, M.A.; Ezzitouni, A.; Wolfenden, R. Contrasting behavior of conformationally locked carbocyclic nucleosides of adenosine and cytidine as substrates for deaminases; Nucleos. Nucleot. & Nucl. Acids 2009, 28, 614 – 632. • Ludek, O.R.; Schroeder, G.K.; Wolfenden, R.; Marquez, V.E. Synthesis of conformationally locked carbocyclic 1,3_diazepinone nucleosides as inhibitors of cytidine deaminase; Nucleic Acids Symposium Series 2008, 52, 659 – 660. • Ludek, O.R.; Marquez, V.E. Convergent or Linear? A Challenging Question in Carbocyclic Nucleoside Chemistry; Synthesis 2007, 22, 3451 – 3460. • Reichardt, B.; Ludek, O.R.; Meier, C. New and efficient synthesis of racemic cyclopent_3_en_1_yl nucleoside analogues and their derivatives; Coll. Czech. Chem. Comm. 2006, 71, 1011 – 1028. • Meier, C.; Jessel, S.; Reichardt, B.; Ludek, O.; Balzarini, J. Stereoselective synthesis and biological evaluation of D_ and L_carba_nucleosides as potential antiviral agents; Antivir. Res. 2006, 70, A27. • Ludek, O.R.;

Balzarini, J.; Krämer, T.; Meier, C. Divergent Synthesis and Biological Evaluation of Carbocyclic a_, iso_ and 3'_epi_Nucleosides; Synthesis 2006, 8, 1313 – 1324. • Ludek, O.R.; Balzarini, J.; Meier, C. Synthesis and Biological Evaluation of 3'_Modified Carbocyclic Nucleosides Structurally Related to 3'_Azidothymidine (AZT) and their cycloSal_Phosphate Triesters; Eur. J. Org. Chem. 2006, 4, 932 – 940. • Ludek, O.R.; Meier, C. Synthesis of Carbocyclic Pyrimidine Nucleosides– Part III: Influence of the N3_Protection Group on N1_ vs. O2_Alkylation in the Mitsunobu Reaction; Eur. J. Org. Chem. 2006, 4, 941 – 946. • Ludek, O.R.; Meier, C. Synthesis of Carbocyclic Pyrimidine Nucleosides using the Mitsunobu Reaction – Part II: Influence of the Solvent on N1_ vs. O2_Alkylation; Synlett, 2006, 2, 324 – 326. • Ludek, O.R.; Meier, C. Synthesis of Carbocyclic Pyrimidine Nucleosides using the Mitsunobu Reaction – Part I: Influence of the Alcohol on N1_ vs. O2_Alkylation; Synlett, 2005, 20, 3145 – 3147. • Ludek, O.R.; Meier, C. Synthesis of Carbocyclic Nucleotides as Potential Substrates for Thymidylate Kinases; Nucleos., Nucleot. & Nucl. Acids 2005, 24, 683 – 686. • Ludek, O.R.; Meier, C. New convergent Synthesis of Carbocyclic Nucleoside Analogues; Synthesis 2003, 13, 2101 – 2109. • Ludek, O.R.; Meier, C. A short and efficient route towards enantiomerically pure carbocyclic analogues of thymidine: New substrates for thymidylate kinase; Antiviral Res. 2003, 57, A 54. • Ludek, O.R.; Meier, C. Synthesis of Carbocyclic Analogues of Thymidine; Nucleos., Nucleot. & Nucl. Acids 2003, 22, 683 – 685.

Projects

Memberships

External Assessor in the chemical Certification Procedure at EDQM Delegate to Quality Working Party and Member of the Core Team

Other Relevant Information