

## Publicaciones:

- 1 Synthesis of 1,2-cis-substituted Glucosylglycerols, *Zhurnal Obshchei Khimii*, vol 49, 2148-50, 1979.
- 2 Selective benzylation of methyl 4,6-O-benzyliden- $\alpha$ -D-mannopyranoside, *Rev.Cubana Farmacia*, 1981, 15, 26-30
- 3 Synthesis of methyl 3-O-( $\alpha$ -D-mannopyranosyl)- $\alpha$ -D-glucopyranoside, *Rev. Cubana Farmacia*, 1981, 15, 164-8
- 4 Phase transfer benzylation of carbohydrates II. Synthesis of methyl 3-O-benzyl-4,6-O-benzyliden- $\alpha$ -D-galactopyranoside, *Rev.Cubana Farmacia*, 1981, 15, 169-73
- 5 Gas-chromatography analysis of the oligosaccharides present in *Pisum sativum*, *Rev.Cubana Farmacia*, 1981, 15, 222-6
- 6 Chromatography Determination of steroidal compound in solanum plants, *Rev.Cubana Farmacia*, 1981, 15, 247-251
- 7 Carbohydrates potentially antitumoral I. Alkylthioglucosides, *Rev.Cubana Farmacia*, 1982, 16, 235-42
- 8 The synthesis of derivatives of 0- $\beta$ -D-galactopyranosyl-(1-3)-O-(2-acetamido-2-deoxy- $\alpha$ -D-galactopyranosyl)-L-serine and L-threonine, *Carbohydr.Res.*, 1982, 110, C9-C11
- 9 Synthesis of glycopeptides having clusters of 0-glycosylic disaccharide chains [ $\beta$ -D-Gal-(1-3)- $\alpha$ -D-GalNAc] located at vicinal amino acid residues of the peptide chain, *Carbohydr.Res.*, 1983, 116, C9-C12.
- 10 Diosgenin, chlorogenin and Isochiapagenin from Solanum Bahamense L., *Pharmazie* 1982, 37, 225-226
- 11 Use of selenium in Carbohydrate Chemistry: Formation of vinyl-Glycosides, *Synthesis*, 1984, 134-5
- 12 Synthesis of methyl 3-O-(2-O- $\alpha$ -D-mannopyranosyl)- $\alpha$ -D-mannopyranosyl)- $\alpha$ -D-glucopyranoside, *Rev.Cubana Química*, 1983, 17, 36-9
- 13 1,2-cis Glycosylation. Problems and solutions, *Rev.Cubana Farmacia*, 1983, 17, 40-54
- 14 1,2-cis Glycosylation. Synthesis of  $\beta$ -mannosides, *Rev.Cubana Farmacia*, 1983, 17, 55-64.
- 15 Contribution of organic synthesis to the determination of human blood group MN specificity, *Red Cell Membrane Glycoconjugates and related markers* ed J.P.Cartron, P.Rouger, Ch.Salmon, Arnette, Paris 1983, 159-169
- 16 Synthesis of M and N active Glycopeptides. Part of the N-Terminal Region of Human Glycophorin A., *Glycoconjugate J.*, 1984, 1, 5-8
- 17 Interaction of synthetic Glycopeptides carrying clusters of 0-glycosidic disaccharide chains [ $\beta$ -D-Gal-(1-3)- $\alpha$ -D-GalNAc] with  $\beta$ -D-Galactose-binding lectins, *Glycoconjugate J.*, 1984, 1, 73-80
- 18 Steroidal glycosides from *Solanum havanense* Jacq, *Rev.Cubana Química*, 1986, 2, II, 71-3
- 19 Synthesis of benzyl 3-O-benzyl-4,6-O-benzyliden- $\beta$ -D-galactopyranoside, *Rev.Cubana Química*, 1987, 3, 73-8.
- 20 Synthesis of disaccharides 2-acetamido-2-deoxy-3-O- $\beta$ -D-galactopyranosyl-D-galactose and D-glucose, *Rev.Cubana Química*, 1987, 3, 45-9.
- 21 An easy preparation of 2-deoxy-2-phthalimido- $\beta$ -D-gluco- and  $\alpha$ -L-rhamno-pyranosides, *J.Carbohydr.Chemistry*, 1987, 6, 509-13.
- 22 Synthesis of allyl and benzyl 4-O-(3,6-di-O-methyl- $\beta$ -D-glucopyranosyl)-2,3-di-O-methyl- $\alpha$ -L-rhamnopyranoside, *Carbohydr.Res.*, 1987, 165, 197-206.
- 23 Synthesis of disaccharide 2-acetamido-2-desoxy- $\beta$ -D-glucopyranosyl-(1-3)-D-galactose, the postulate receptor of pneumococci, *Rev.Cubana Química*, 1987, 3, 1-6.
- 24 Chemical synthesis of an artificial antigen containing the trisaccharide hapten of *Mycobacterium leprae*, *Carbohydr.Res.*, 1988, 183, 175-82.
- 25 Serologic demonstration of the activity of a *Mycobacterium leprae* antigen obtained by chemical synthesis, *Rev Cubana Med Trop.* 1989, 41, 10-7
- 26 Inhibition studies of the specificity of the *Vicia graminea* lectin, *Lectins; Biol.Biochem., Clin Biochem.*, 1985, 4, 447-57
- 27 Glycosides of monoallyl diethylenglycol. A new type of spacer group for synthetic oligosaccharides. *J.Carbohydrate Chemistry*, 1989, 8, 531-7
- 28 Synthesis of the tetrasaccharide Lacto-N-neotetraosa, *Rev.Cubana Química*, 1992, 6, 1-6.
- 29 An n.m.r. and conformational analysis of the terminal trisaccharide from the serologically active glycolipid of *Mycobacterium leprae* in different solvents. *Carbohydr. Res.*, 1990, 200, 33-45
- 30 Glycosides of 8-hydroxy-3,6-dioxaoctanal. A synthesis of a new spacer for synthetic oligosaccharides, *Carbohydr.Res.*, 1991, 271, 263-7.

- 31 Ultramicroelisa para lepra con un antígeno sintético. **Revista do Instituto de Medicina Tropical de Sao Paulo**, 1991, 33, 6, 491-5
- 32 Synthesis of the human blood group A trisaccharide with a dioxolane type spacer, **Revista Cubana de Química**, 1996, 8, 11-
- 33 Human Blood group B trisaccharide I. Synthesis, characterization and use for generation and selection of specific monoclonal antibodies, **Biotecnología aplicada**, 1995, 12, 36-41
- 34 A new approach to the ribosyl-ribitol unit for the synthesis of Haemophilus influenzae type b oligosaccharides, **J. Carbohydr. Chemistry**, 1994, 13, 3, 465-74.
- 35 Synthesis of ribofuranosides by catalyst with Lewis acids. Glycosidation versus transacetylation, **J. Carbohydrate Chem**, 1995, 14, 551-561
- 36 Synthesis of the terminal disaccharides corresponding to Ogawa and Inaba antigenic determinant from Vibrio cholerae, **Carbohydrate Letters**, 1995, 1, 173-178.
- 37 Synthesis of the trisaccharide  $\alpha$ -L-Rha-(1-2)- $\alpha$ -L-Rha-(1-2)- $\alpha$ -L-Rha with a dioxolane type spacer-arm, **J. Carbohydr. Chem**, 1996, 15, 137-146.
- 38 Synthesis of le<sup>x</sup> and le<sup>y</sup> oligosaccharides with azido-type spacer-arm. comparative use of 3- and 4-methoxybenzyl as a key temporal protective group, **J. Carbohydr. Chem**, 1998, 16, 7, 835-850.
- 39 Conjugate vaccines using synthetic carbohydrate antigens: a tool for anti-tumor therapeutics vaccines, **Biotecnología aplicada**, 1997, 14, 56-7.
- 40 Synthesis of neoglycolipids containing man 3,6 branched oligosaccharides as a carbohydrate moiety, **J. Carbohydr. Chem.**, 1998, 16, 7, 851-868.
- 41 Synthesis of the Vibrio cholerae O1 Ogawa and Inaba terminal disaccharides with a dioxolane-type spacer and their coupling to proteins, **J. Carbohydrate Chem**, 1998, 17 (9) 1307-1320.
- 42 Synthesis of terminal disaccharides corresponding to Ogawa and Inaba antigenic determinant from Vibrio cholerae O1, **Carbohydrate Res**. 1998, 306, 165-17
- 43 Synthesis of immunogens containing lewis<sup>a</sup> and lewis<sup>b</sup> haptens by the use of glycosides of 5-azido-3-oxapentanol, **Glycoconj J.**, 1998, 15, 549-553.
- 44 Synthesis and SOD-Like Activity of Monosaccharide Derived Thiosemicarbazones **Journal of Carbohydrate Chemistry**, 1998, 17, 293 – 303
- 45 Galactosylation with  $\beta$ -Galactosidase from Bovine Testes Employing Modified Acceptor Substrates, **Bioorganic and Medicinal Chemistry**, 1997, 5, 1285-1291
- 46 Effect of shape, size, and valency of multivalent mannosides on their binding properties to phytohemagglutinins, **Glycoconjugate Journal**, 1998, 15, 251-263.
- 47 Synthesis of new neoglycolipid (AgH-1) and its effect upon the properties of dipalmitoylphosphatidylcholine:cholesterol liposomes, **Archiv. Biochem. Biophys.**, 1998, 350, 137-47.
- 48 Synthesis and NMR analysis of <sup>13</sup>C-labeled oligosaccharides corresponding to the major glycolipid from Mycobacterium leprae, **Carbohydr. Res.**, 1998, 306, 493-503
- 49 Synthesis of dimeric Lewis X antigenic determinant with azido-type spacer arm by a sequence of regioselective glycosylation steps, **Tetrahedron Letters**, 1998, 9143-9146.
- 50 Synthesis of the amino spaced sialyl- $\alpha$ -(2 $\rightarrow$ 6)-lactosamine trisaccharide, **Carbohydr. Res.**, 1999, 317, 29-38.
- 51 Solution conformation and dynamics of the trisaccharide fragments of the O-antigen of Vibrio cholerae O1, serotypes Inaba and Ogawa, **Carbohydrate Research** 1999, 321:1-2:88 – 95.
- 52 Phase and surface properties of lipid bilayers containing neoglycolipids. **Arch Biochem Biophys**. 1999, 363(1):81-90.
- 53 Synthesis of A Type 2 Tetrasaccharide with amino type spacer arm by Regio-Stereo Selective Glycosylation Strategy, **Carbohydrate Letters**, 1999,
- 54 Preparación de un inmuoadsorbente del grupo sanguíneo humano A para su uso en la purificación de hemoderivados, **Acta Farm. Bonaerense** 1999, 18 (3) 207-15.
- 55 Monosialyllactose neoglycoconjugates are not able to provide an immunological response against n-acetyl GM3 ganglioside in mice and chickens, **Biotecnolog. Applic.** 2003, in press.
- 56 Synthesis of Neoglycolipid Analogues of the Oligosaccharide Portion of Ganglioside GM3, **J. Carbohydr. Chem.**, 2003, 22, 395-406
- 57 A Synthetic Conjugate Polysaccharide Vaccine Against Haemophilus Influenzae Type b, **Science**, 2004, 305, 522-24.
- 58 Immunogenicity and antigenicity of a synthetic Haemophilus influenzae type b oligosaccharide-protein conjugates, **Infection and Immunity**, 2004, 72, 7115-7123.
- 59 Phase I Evaluation of a conjugate vaccine containing fully synthetic Haemophilus influenzae type b oligosaccharides in Healthy Adults, **Clinical Vaccine Immunology**, 2006, 13, 1052-1056.

- 60 Development of *Haemophilus influenzae* type b conjugate vaccine with a synthetic capsular polysaccharide antigen. **Carbohydrate Vaccines, ACS Symposium series 2006,**
- 61 Glycoconjugate vaccines against *Haemophilus influenzae* type b. *Methods in Enzymology*, 2006, 415, 10, 153-163.
- 62 Enzyme-linked immunosorbent assay for quantitative determination of capsular polysaccharide in culture supernatants of *Streptococcus pneumoniae*, **Biotechnology Applied Biochem, 2006, 44, 101-108.**
- 63 T-cell immunity and carbohydrates, **Carbohydrate Vaccines, ACS Symposium series 2006.**
- 64 High performance reverse phase chromatography with fluorescence detection assay for characterization and quantification of pneumococcal polysaccharides, **Vaccine, 2006, 24, Suppl 2, S2:70-1**