

SUPPLEMENTARY REFERENCES RELATING TO GALECTIN LIGANDS

1. Miller MC, Klyosov A, Mayo KH. The alpha-galactomannan Davanat binds galectin-1 at a site different from the conventional galectin carbohydrate binding domain. *Glycobiology* 2009;19:1034-45.
2. Fradin C, Poulain D, Jouault T. beta-1,2-linked oligomannosides from *Candida albicans* bind to a 32-kilodalton macrophage membrane protein homologous to the mammalian lectin galectin-3. *Infect Immun* 2000;68:4391-8.
3. Streetly MJ, Maharaj L, Joel S, et al. GCS-100, a novel galectin-3 antagonist, modulates MCL-1, NOXA, and cell cycle to induce myeloma cell death. *Blood* 2010;115:3939-48.
4. Inohara H and Raz A. Effects of natural complex carbohydrate (citrus pectin) on murine melanoma cell properties related to galectin-3 functions. *Glycoconj J* 1994;11:527-32.
5. Nangia-Makker P, Honjo Y, Sarvis R, et al. Galectin-3 induces endothelial cell morphogenesis and angiogenesis. *Am J Pathol* 2000;156:899-909.
6. Lehr JE and Pienta KJ. Preferential adhesion of prostate cancer cells to a human bone marrow endothelial cell line. *J Natl Cancer Inst* 1998;90:118-23.
7. Sathisha UV, Jayaram S, Harish Nayaka MA, Dharmesh SM. Inhibition of galectin-3 mediated cellular interactions by pectic polysaccharides from dietary sources. *Glycoconj J* 2007;24:497-507.
8. André S, Liu B, Gabius HJ, Roy R. First demonstration of differential inhibition of lectin binding by synthetic tri- and tetravalent glycoclusters from cross-coupling of rigidified 2-propynyl lactoside. *Org Biomol Chem* 2003;1:3909-16.

9. Cumpstey I, Sundin A, Leffler H, Nilsson UJ. C₂-symmetrical thiodigalactoside bis-benzamido derivatives as high-affinity inhibitors of galectin-3: efficient lectin inhibition through double arginine-arene interactions. *Angew Chem Int Ed Engl* 2005;44:5110-2.
10. Borsig L, Wong R, Feramisco J, et al. Heparin and cancer revisited: mechanistic connections involving platelets, P-selectin, carcinoma mucins, and tumor metastasis. *Proc Natl Acad Sci U S A* 2001;98:3352-7.
11. Tejler J, Leffler H, Nilsson UJ. Synthesis of O-galactosyl aldoximes as potent LacNAc-mimetic galectin-3 inhibitors. *Bioorg Med Chem Lett* 2005;15:2343-5.
12. Sörme P, Arnoux P, Kahl-Knutsson B, et al. Structural and thermodynamic studies on cation- π interactions in lectin-ligand complexes: high-affinity galectin-3 inhibitors through fine-tuning of an arginine-arene interaction. *J Am Chem Soc* 2005;127:1737-43.
13. André S, Pieters RJ, Vrasidas I, et al. Wedgelike glycodendrimers as inhibitors of binding of mammalian galectins to glycoproteins, lactose maxiclusters, and cell surface glycoconjugates. *ChemBiochem* 2001;2:822-30.
14. Lin C-I, Whang EE, Donner DB, et al. Galectin-3 targeted therapy with a small molecule inhibitor activates apoptosis and enhances both chemosensitivity and radiosensitivity in papillary thyroid cancer. *Mol Cancer Res* 2009;7:1655-62.
15. Rabinovich GA, Cumashi A, Bianco GA, et al. Synthetic lactulose amines: novel class of anticancer agents that induce tumor-cell apoptosis and inhibit galectin-mediated homotypic cell aggregation and endothelial cell morphogenesis. *Glycobiology* 2006;16:210-20.

16. Fort S, Kim H-S, Hindsgaul O. Screening for galectin-3 inhibitors from synthetic lacto-N-biose libraries using microscale affinity chromatography coupled to mass spectrometry. *J Org Chem* 2006;71:7146-54.
17. Iurisci I, Cumashi A, Sherman AA, et al. Synthetic inhibitors of galectin-1 and -3 selectively modulate homotypic cell aggregation and tumor cell apoptosis. *Anticancer Res* 2009;29:403-10.
18. André S, Ortega PJ, Perez MA, Roy R, Gabius HJ. Lactose-containing starburst dendrimers: influence of dendrimer generation and binding-site orientation of receptors (plant/animal lectins and immunoglobulins) on binding properties. *Glycobiology* 1999;9:1253-61.
19. Glinsky GV, Mossine VV, Price JE, et al. Inhibition of colony formation in agarose of metastatic human breast carcinoma and melanoma cells by synthetic glycoamine analogs. *Clin Exp Metastasis* 1996;14:253-67.
20. Giguère D, Bonin M-A, Cloutier P, et al. Synthesis of stable and selective inhibitors of human galectins-1 and -3. *Bioorg Med Chem* 2008;16:7811-23.
21. Salameh BA, Leffler H, Nilsson UJ. 3-(1,2,3-Triazol-1-yl)-1-thio-galactosides as small, efficient, and hydrolytically stable inhibitors of galectin-3. *Bioorg Med Chem Lett* 2005;15:3344-6.