

Publications:

Clark, T.; Houseknecht, J. B.; Zhang, P.; Lowary, T. L.; Grandinetti, P. J.; Gan, Z. "A solid-state oxygen-17 NMR investigation of hydroxyl environments in methyl glycosides." *manuscript in preparation*.

Blankenship, J. D.; Houseknecht, J. B.; Pal, S.; Bush, L. P.; Grossman, R. B.; Schardl, C. L. "Biosynthetic precursors of fungal pyrrolizidines, the loline alkaloids." *ChemBioChem*, **2005**, *6*, 1016-1022.

Houseknecht, J. B.; Lowary, T. L.; Hadad, C. M. "Gas and solution phase energetics of the methyl α - and β -D-aldopentofuranosides." *J. Phys. Chem. A.*, **2003**, *107*, 5763-5777.

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Houseknecht, J. B.; Altona, C; Hadad, C. M.; Lowary, T. L. "Conformational analysis of furanose rings with PSEUROT: parameterization for rings possessing the *arabino*-, *lyxo*-, *ribo*-, and *xylo*- stereochemistry and application to arabinofuranosides." *J. Org. Chem.* **2002**, *67*, 4647-4651.

Houseknecht, J. B.; Lowary, T. L. "Oligofuranosides containing conformationally-restricted residues: synthesis and conformational analysis." *J. Org. Chem.* **2002**, *67*, 4150-4164.

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Houseknecht, J. B.; Temple, J. S.; Bateman, R. C. "In situ detection method for Glutaminyl Cyclase activity in polyacrylamide gels." *Biotechniques* **1998**, *24*, 346.

Student Presentations:

Newbold, D.A.; Houseknecht, J.B. “Acetylation of Phenols.” Poster presentation, **2004**, 56th South-East Regional Meeting of the ACS, Research Triangle Park, North Carolina.

Presentations:

Blankenship, J. D.; Pal, S.; Houseknecht, J. B.; Spiering, M.; Bush, L. P.; Grossman, R. B.; Schardl, C. L. “Study of the loline alkaloid biochemical pathways using the fungal endophyte, *Neotyphodium uncinatum*, of meadow fescue, *Lolium pratense*.” Poster presentation, **2004**, 5th International Symposium on Neotyphodium/ Grass Interactions, University of Arkansas.

Houseknecht, J. B.; Lowary, T. L. “Probing arabinofuranose conformation via conformationally restricted di- and trisaccharide analogs.” Poster presentation, **2001**, 222nd National ACS Meeting, Chicago, Illinois.

Houseknecht, J. B.; Lowary, T. L. Hadad, C. M. “ $^3J_{C1,H4}$: A useful parameter for the determination of furanose ring conformation.” Poster presentation, **2001**, 222nd National ACS Meeting, Chicago, Illinois.

Houseknecht, J. B.; McCarren, P. R.; Lowary, T. L.; Hadad, C. M. “Conformational studies of methyl 3-O-methyl- α -D-arabinofuranoside: an approach for studying the conformation of furanose rings.” Poster presentation, **2000**, 220th National ACS Meeting, Washington DC.

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Last updated 07/26/2005