

Department of Biochemistry 2012

FACULTY PUBLICATIONS

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2012

AUCLAIR, K.

Menard, A., Fabra, C., Huang, Y., Auclair, K. (2012) Type II ligands as chemical auxiliaries to favor enzymatic transformations by P450 2E1. *ChemBioChem* 13, 2527-2536.

Larsen, A. T., Lai, T., Polic, V., Auclair, K. (2012) Dual use of a chemical auxiliary: molecularly imprinted polymers for the selective recovery of products from biocatalytic reaction mixtures. *Green Chem.* 14, 2206-2211.

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Vong, K., Tam, I. S., Yan, X., Auclair, K. (2012) Inhibitors of aminoglycoside resistance activated in cells. *ACS Chem. Biol.* 7, 470-475.***Vong K. is highlighted in this issue and ***highlighted in Global Medical Discovery

Vong, K., Auclair, K. (2012) Understanding and overcoming aminoglycoside resistance caused by N-6'-acetyltransferase. *Med. Chem. Commun.* 3, 397-407.

Tewari, B. B., Beaulieu-Houle, G., Larsen, A., Auclair, K., Butler, I. S. (2012) An overview of molecular spectroscopic studies on theobromine and related alkaloids. *Appl. Spectrosc. Rev.* 47, 163-179.

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Department of Biochemistry 2012

BERGHUIS, A.M.

Caldwell, S. & Berghuis, A.M. (2012) Small-angle X-ray scattering analysis of the bifunctional antibiotic resistance enzyme aminoglycoside (6') acetyltransferase-Ie / aminoglycoside (2'') phosphotransferase-Ia reveals a rigid solution structure. *Antimicrob. Agents Chemother.* 56, 1899-1906.

Shi, K. & Berghuis, A.M. (2012) Structural basis for the dual nucleotide selectivity of aminoglycoside 2''-phosphotransferase IVa provides insight on determinants of nucleotide specificity of aminoglycoside kinases. *J. Biol. Chem.* 287, 13094-13102. (Paper of the week)

Lin, Y.-S., Park, J., De Schutter, J.W., Huang, X.F., Berghuis, A.M., Sebag, M. & Tsantrizos, Y.S. (2012) Design and synthesis of active site inhibitors of the human farnesyl pyrophosphate synthase - Apoptosis and inhibition of ERK phosphorylation in multiple myeloma cells. *J. Med. Chem.* 55, 3201-3215.

Yachnin, B.J., Sprules, T., McEvoy, M.B., Lau, P.C.K. & Berghuis, A.M. (2012) The substrate-bound crystal structure of a Baeyer-Villiger monooxygenase exhibits a Criegee-like conformation. *J. Am. Chem. Soc.* 134, 7788-7795.

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Department of Biochemistry 2012

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DOSTIE, J.

Assadian, S., El-Assaad, W., Wang, X.Q., Gannon, P.O., Barres, V., Latour, M., Mes-Masson, A.M., Saad, F., Sado, Y., Dostie, J., et al. (2012). p53 inhibits angiogenesis by inducing the production of Arresten. *Cancer research* 72, 1270-1279.

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Department of Biochemistry 2012

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Department of Biochemistry 2012

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Department of Biochemistry 2012

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