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Group Meeting Papers

Here is a list of research papers that have been presented for discussion in our weekly group meetings. Papers are selected by group members as a means to broaden our knowledge in chemistry and chemical biology.

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02 Nov 2012, presented by Chris Evans

EZH2 inhibition as a therapeutic strategy for lymphoma with EZH2-activating mutations.
McCabe, M. T.; Ott, H. M.; Ganji, G.; Korenchuk, S.; Thompson, C; Van Aller, G. S.; Liu, Y.; Graves, A. P.; Della Pietra III, A.; Diaz, E.; LaFrance, L. V.; Mellinger, M.; Duquenne, C; Tian, X.; Kruger, R. G.; McHugh, C. F.; Brandt, M.; Miller, W. H.; Dhanak, D.; Verma, S. K.; Tummino, P. J.; Creasy, C. L.* *Nature* 2012, in press.
[Abstract]

24 Aug 2012, presented by Todd Wenderski

The siderophore yersiniabactin binds copper to protect pathogens during infection.
Chaturvedi, K. S.; Hung, C. S.; Crowley, J. R.; Stableton, A. E.; Henderson, J. P.* *Nat. Chem. Biol.* 2012, *8*, 731–736.
[Abstract]

27 Jul 2012, presented by Rashad Karimov

Guided desaturation of unactivated aliphatics.
Voica, A.-F.; Mendoza, A.; Guutekunst, W. R.; Fraga, J. O.; Baran, P. S.* *Nat. Chem.* 2012, *4*, 629–635.
[Abstract]

29 Jun 2012, presented by Alyssa Verano

Ribosomal route to small-molecule diversity.

Tianero, M. D. B.; Donia, M. S.; Young, T. S.; Schultz, P. G.; Schmidt, E. W.* *J. Am. Chem. Soc.* 2012, *134*, 418–425.
[Abstract]

1 Jun 2012, presented by Chris Stratton
Computational redesign of a mononuclear zinc metalloenzyme for organophosphate hydrolysis.
Khare, S. D.; Kipnis, Y.; Greisen, P. J.; Takeuchi, R.; Ashani, Y.; Goldsmith, M.; Song, Y.; Gallaher, J. L.; Silman, I.; Leader, H.; Sussman, J. L.; Stoddard, B. L.; Tawfik, D. S.; Baker, D* *Nat. Chem. Biol.* 2012, *8*, 294–300.
[Abstract]

4 May 2012, presented by Tony Davis
Inhibition of mycolic acid transport across the Mycobacterium tuberculosis plasma membrane.
Grzegorzewicz, A. E.; Pham, H.; Gundi, V. A. K. B.; Scherman, M. S.; North, E. J.; Hess, T.; Jones, V.; Gruppo, V.; Born, S. E. M.; Korduláková, J.; Chavadi, S. S.; Morisseau, C.; Lenaerts, A. J; Lee, R. E.; McNeil, M. R.*; Jackson, M.* *Nat. Chem. Biol.* 2012, *8*, 334–341.
[Abstract]

19 Mar 2012, presented by Gustavo Moura-Letts
Lewis acid catalyzed intramolecular [4+2] and [3+2] cross-cycloaddition of alkynylcyclopropane ketones with carbonyl compounds and imines.
Bai, Y.; Tao, W.; Ren, J.; Wang, Z.* *Angew. Chem. Intl. Ed.* 2012, *51*, 4112–4116.
[Abstract]

27 Feb 2012, presented by Chris Stratton
Cheminfomatics-driven discovery of selective, nanomolar inhibitors for Staphylococcal pyruvate kinase.
Axerio-Cilies, P.; See, R. H.; Zoraghi, R.; Worral, L.; Lian, T.; Stoynov, N.; Jiang, J.; Kaur, S.; Jackson, L.; Gong, H.; Swayze, R.; Amandoron, E.; Kumar, N. S.; Moreau, A.; Hsing, M.; Strynadka, N. C.; McMaster, W. R.; Finlay, B. B.; Foster, L. J.; Young, R. N.; Reiner, N. E.*; Cherkasov, A.* *ACS Chem. Biol.* 2012, *7*, 350–359.
[Abstract]

6 Feb 2012, presented by Tracy Liu
Intermolecular Ritter-type C–H amination of unactivated sp^3 carbons.
Michaudel, Q.; Thevenet, D.; Baran, P. S.* *J. Am. Chem. Soc.* 2012, *134*, 2547–2550.
[Abstract]

24 Jan 2011, presented by Alyssa Verano
Biology-oriented synthesis of a natural-product inspired oxepane collection yields a small-molecule

activator of the Wnt-pathway.
Basu, S.; Ellinger, B.; Rizzo, S.; Deraeve, C.; Schürmann, M.; Preut, H.; Arndt, H.-D.; Waldmann, H.* *Proc. Natl. Acad. Sci. USA* 2011, *108*, 6805–6810.
[Abstract]

9 Jan 2012, presented by Inder Sharma
Total synthesis of gelsemoxonine.
Shimokawa, J.; Harada, T.; Yokoshima, S.; Fukuyama, T.* *J. Am. Chem. Soc.* 2011, *133*, 17634–17637.
[Abstract]

Group Meeting Papers 2011
Chemistry and chemical biology research papers recently presented for discussion in our weekly group meetings.

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