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Group Meeting Papers

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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.

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

Cheminformatics-driven discovery of selective, nanomolar inhibitors for Staphylococcal pyruvate kinase.

Axerio-Cilies, P.; See, R. H.; Zoraghi, R.; Worrall, L.; Lian, T.; Stoykov, 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 sp³ 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.

- [Group Meeting Papers 2010](#)

diversity oriented synthesis

- [Group Meeting Papers 2009](#)

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