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## Group Meeting Papers 2011

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Here is a list of research papers that have been presented for discussion in our weekly group meetings.

What can we help you find today?

aden our knowledge in chemistry and chemical

biol

*19 Dec 2011, presented by Todd Wenderski*

Enantioselective total synthesis of (–)-acetylaranotin, a dihydrooxepine epidithiodiketopiperazine.

Codelli, J. A.; Puchlopek, A. L. A.; Reisman, S. E.\* *J. Am. Chem. Soc* 2012, *134*, 1930–1933.

[ [Abstract](#) ]

*5 Dec 2011, presented by Jeff Rothman*

Ligand preorganization may be accompanied by entropic penalties in protein–ligand interactions.

Benfield, A. P.; Teresk, M. G.; Plake, H. R.; DeLorbe, J. E.; Millsbaugh, L. E.; Martin, S. F.\* *Angew. Chem. Intl. Ed.* 2006, *45*, 6830–6835.

[ [Abstract](#) ]

*31 Oct 2011, presented by Tony Davis*

Collective synthesis of natural products by means of organocascade catalysis.

Jones, S. B.; Simmons, B.; Mastracchio, A.; MacMillan, D. W. C.\* *Nature* 2011, *475*, 183–188.

[ [Abstract](#) ]

*17 Oct 2011, presented by Debarshi Pratihar*

A convergent strategy for the synthesis of polycyclic ethers by using oxiranyl anions.

Sakai, T.; Sugimoto, A.; Mori, Y.\* *Org. Lett.* 2011, 13, 5850–5853.

[ [Abstract](#) ]

6 Sep 2011, presented by Felix Kopp

Three-component coupling of arynes and organic bromides.

Yoshida, H.\*; Asatsu, Y.; Mimura, Y.; Ito, Y.; Ohshita, J.; Takaki, K. *Angew. Chem. Intl. Ed* 2011, 50, 9676–9679.

[ [Abstract](#) ]

22 Aug 2011, presented by Chris Stratton

Total synthesis of *N*-methylwelwitindolinone D isonitrile.

Bhat, V.; Allan, K. M.; Rawal, V. H.\* *J. Am. Chem. Soc.* 2011, 133, 5798–5801.

[ [Abstract](#) ]

Total synthesis of (–)-*N*-methylwelwitindolinone C isothiocyanate.

Huters, A. D.; Quasdorf, K. W.; Styduhar, E. D.; Garg, N. K.\* *J. Am. Chem. Soc* 2011, 133, 15797–157999.

[ [Abstract](#) ]

1 Aug 2011, presented by Renato Bauer

Regioselective reactions for programmable resveratrol oligomer synthesis.

Snyder, S. A.\*; Gollner, A.; Chiriack, M. I. *Nature* 2011, 474, 461–466.

[ [Abstract](#) ]

11 Jul 2011, presented by Felix Kopp

Branching cascades: A concise synthetic strategy targeting diverse and complex molecular frameworks .

Liu, W.; Khedkar, V.; Baskar, B.; Schürmann, M.; Kumar, K.\* *Angew. Chem. Intl. Ed.* 2011, 50, 6900–6905.

[ [Abstract](#) ]

20 Jun 2011, presented by Inder Sharma

Total synthesis of the cyanolide A aglycon.

Gesinksi, M. R.; Rychnovsky, S. D.\* *J. Am. Chem. Soc.* 2011, 133, 9727–9729.

[ [Abstract](#) ]

13 Jun 2011, presented by Todd Wenderski

A concise, stereocontrolled total synthesis of rippertenol.

Snyder, S. A.\*; Wespe, D. A.; von Hof, J. M. *J. Am. Chem. Soc.* 2011, 133, 8850–8853.

[ [Abstract](#) ]

11 Apr 2011, presented by Tony Davis

Uptake of unnatural trehalose analogs as a reporter for *Mycobacterium tuberculosis*.

Backus, K. M.; Boshoff, H. I.; Barry, C. S.; Boutureira, O.; Patel, M. K.; D'Hooge, F.; Lee, S. S.; Via, L. E.; Tahlan, K.; Barry III, C. E.\*; Davis, B. G.\* *Nat. Chem. Biol.* 2011, 7, 228–235.

[ [Abstract](#) ]

8 Mar 2011, presented by Debarshi Pratihar

11-Step enantioselective synthesis of (-)-lomaiviticin aglycon.

Herzon, S. B.\*; Lu, L.; Woo, C. M.; Gholap, S. L. *J. Am. Chem. Soc.* 2011, 133, 7260–7263.

[ [Abstract](#) ]

15 Feb 2011, presented by Gustavo Moura-Letts

Expeditious onstruction of a carbobicyclic skeleton via sp<sup>3</sup>-C–H functionalization: Hydride shift from an aliphatic tertiary position in an internal redox process..

Mori, K.; Sueoka, S.; Akiyama, T.\* *J. Am. Chem. Soc.* 2011, 133, 2424–2426.

[ [Abstract](#) ]

24 Jan 2011, presented by Chris Stratton

Diversity-oriented synthesis of polycyclic scaffolds by modification of an anodic product derived from 2,4-dimethylphenol.

Barjau, J.; Schnakenburg, G.; Waldvogel, S. R.\* *Angew. Chem. Intl. Ed.* 2011, 50, 1415–1419.

[ [Abstract](#) ]

11 Jan 2011, presented by Jackie Wurst

Small molecules of different origins have distinct distributions of structural complexity that correlate with protein-binding profiles.

Clemons, P. A.; Bodycombe, N. E.; Carrinski, H. A.; Wilson, J. A.; Shamji, A. F.; Wagner, B. K.; Koehler, A. N.; Schreiber, S. L.\* *Proc. Natl. Acad. Sci. USA* 2010, 107, 18787–18792.

[ [Abstract](#) ]

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