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Here is a list of research papers that were presented for discussion in our 2009 weekly group meetings. Papers are selected by group members as a means to broaden our knowledge in chemistry and chemical biology.

7 Dec 2009, presented by Sharanya Rajagopal

Cell-selective metabolic labeling of proteins.

Ngo, J. T.; Champion, J. A.; Mahdavi, A.; Tanrikulu, I. C.; Beatty, K. E.; Connor, R. E.; Yoo, T. H.;

Dieterich, D. C.; Schuman, E. M.; Tirrell, D.A.* *Nat. Chem. Biol.* 2009, 5, 715-717.

[[Abstract](#)]

23 Nov 2009, presented by Tony Davis

Inhibitors selective for mycobacterial versus human proteasomes.

Lin, G.*; Li, D.; Sorio de Carvalho, L. P.; Deng, H.; Tao, H.; Vogt, G.; Wu, K.; Schneider, J.; Chidawanyika,

T.; Warren, J. D.; Li, H.*; Nathan, C.* *Nature* 2009, 461, 621-626.

[[Abstract](#)]

9 Nov 2009, presented by Debarshi Pratihar

Enantiodivergent conversion of chiral secondary alcohols into tertiary alcohols.

Stymiest, J. L.; Bagutski, V.; French, R. M.; Aggarwal, V. K.* *Nature* 2008, 456, 778-782.

[[Abstract](#)]

26 Oct 2009, presented by Gustavo Moura-Letts

Iron-catalyzed C(sp³)-C(sp³) bond formation through C(sp³)-H functionalization: A cross-coupling reaction of alcohols with alkenes.

Zhang, S.-Y.; Tu, Y.-Q.; Fan, C.-A.; Zhang, F.-M.; Shi, L.* *Angew. Chem. Intl. Ed.* 2009, 48, 8761-8765.

[[Abstract](#)[Abstract](#)]

5 Oct 2009, presented by Chris Stratton

Synthetic study toward the total synthesis of maoecrystal V.

Gong, J.; Lin, G.; Li, C.-c.*; Yang, Z.* *Org. Lett.* 2009, 11, 4770-4773.

[[Abstract](#)]

A synthesis of the carbon skeleton of maoecrystal V.

Krawczuk, P. J.; Schöne, N.; Baran, P. S.* *Org. Lett.* 2009, 11, 4774-4776.

[[Abstract](#)]

23 Sep 2009, presented by Shalini Balakrishnan

A chemical screen for biological small molecule-RNA conjugates reveals CoA-linked RNA.

Kowtoniuk, W. E.; Shen, Y.; Heemstra, J. M.; Agarwal, I.; Liu, D. R.* *Proc. Natl. Acad. Sci. USA* 2009, 106, 7768-7773.

[[Abstract](#)]

16 Sep 2009, presented by Jackie Wurst

Can one predict changes from SN1 to SN2 mechanisms?

Phan, T. B.; Nolte, C.; Kobayashi, S.; Ofial, A.R.; Mayr, H.* *J. Am. Chem. Soc.* 2009, 131, 11392-11401.

[[Abstract](#)]

10 Aug 2009, presented by Renato Bauer

Quantifying biogenic bias in screening libraries.

Hert, J.; Irwin, J. J.; Laggner, C.; Keiser, M. J.; Shoichet, B. K.* *Nat. Chem. Biol.* 2009, 5, 479-483.

[[Abstract](#)]

22 Jul 2009, presented by Xuequan Lu

Synthetic and structural studies on syringolin A and B reveal critical determinants of selectivity and potency of proteasome inhibition.

Clerc, J.; Groll, M.; Illich, D. J.; Bachmann, A. S.; Huber, R.; Schellenberg, B.; Dudler, R.*; Kaiser, M.*

Proc. Natl. Acad. Sci. USA 2009, *106*, 6507-6512.

[[Abstract](#)]

13 Jul 2009, presented by Felix Kopp

Radicals and transition-metal catalysis - An alliance par excellence to increase reactivity and selectivity in organic chemistry.

Ford, L.; Jahn, U.* *Angew. Chem. Intl. Ed.* 2009, *48*, 6386-6389.

[[Abstract](#)]

29 June 2009, presented by Guodong Liu

Biosynthesis and metabolism of cyclopropane rings in natural compounds.

Wessjohann, L. A.*; Brandt, W. *Chem. Rev.* 2003, *103*, 1625-1647.

[[Abstract](#)]

2 June 2009, presented by Tony Davis

A small molecule that binds Hedgehog and blocks its signaling in human cells.

Stanton, B. Z.; Peng, L. F.*; Maloof, N.; Nakai, K.; Wang, X.; Duffner, J. L.; Taveras, K. M.; Hyman, J. M.; Lee, S. W.; Koehler, A. N.; Chen, J. K.; Fox, J. L.; Mandinova, A.; Schreiber, S. L.* *Nat. Chem. Biol.* 2009, *5*, 154-156.

[[Abstract](#)]

18 May 2009, presented by Debarshi Pratihar

Achieving molecular complexity by organocatalytic one-pot strategies - A fast entry for synthesis of sphingoids, amino sugars, and polyhydroxylated α -amino acids.

Jiang, H.; Elsner, P.; Jensen, K. L.; Falcicchio, A.; Marcos, V.; Jørgensen, K. A.* *Angew. Chem. Intl. Ed.* 2009, *48*, 6844-6848.

[[Abstract](#)]

27 April 2009, presented by Gustavo Moura-Letts

How protein recognizes ladder-like polycyclic ethers: Interactions between ciguatoxin (CTX3C) fragments and its specific antibody 10C9.

Ui, M.; Tanaka, Y.; Tsumuraya, T.; Fujii, I.; Inoue, M.; Hiramata, M.; Tsumoto, K.* *J. Biol. Chem.* 2008, *283*, 19440-19447.

[[Abstract](#)]

13 April 2009, presented by Chris Stratton

Identification of a chemical probe for NAADP by virtual screening.

Naylor, E.; Arredouani, A.; Vasudevan, S. R.; Lewis, A. M.; Parkesh, R.; Mizote, A.; Rosen, D.; Thomas, J.

M.; Izumi, M.; Ganesan, A.; Galione, A.; Churchill, G. C.* *Nat. Chem. Biol.* 2009, 5, 220-226.

[[Abstract](#)]

30 Mar 2009, presented by Shalini Balakrishnan

Dynamic proteomics of individual cancer cells in response to a drug.

Cohen, A. A.*; Geva-Zatorsky, N.; Eden, E.; Frenkel-Morgenstern, M.; Issaeva, I.; Sigal, A.; Milo, R.; Cohen-Saidon, C.; Liron, Y.; Kam, Z.; Cohen, L.; Danon, T.; Perzov, N.; Alon, U. *Science* 2008, 322, 1511-1516.

[[Abstract](#)]

9 Mar 2009, presented by Jackie Wurst

Total synthesis of a chlorosulpholipid cytotoxin associated with seafood poisoning.

Nilewski, C.; Geisser, R. W.; Carreira, E. M.* *Nature* 2009, 457, 573-576.

[[Abstract](#)]

19 Jan 2009, presented by Renato Bauer

Self-consistent synthesis of the squalene synthase inhibitor zaragozic acid C via controlled oligomerization.

Nicewicz, D. A.; Satterfield, A. D.; Schmitt, D. C.; Johnson, J. S.* *J. Am. Chem. Soc.* 2008, 130, 17281-17283.

[[Abstract](#)]

- [Group Meeting Papers 2011](#)

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

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