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## Group Meeting Papers 2007

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Here is a list of research papers that were presented for discussion in our 2007 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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[Open Positions](#)  
3 Dec 2007, presented by Chris Stratton

Deconstructing fragment-based inhibitor discovery.

Babaoglu, K.; Shoichet, B. K.\* *Nat. Chem. Biol.* 2006, 2, 720-723.

[ [Abstract](#) ]

27 Nov 2007, presented by Shalini Balakrishnan

N-Phenylacetanoyl-L-homoserine lactones can strongly antagonize or superagonize quorum sensing in *Vibrio fischeri*.

Geske, G. D.; O'Neill, J. C.; Blackwell, H. E.\* *ACS Chem. Biol.* 2007, 2, 315-319.

[ [Abstract](#) ]

19 Nov 2007, presented by Jackie Wurst

Copper-free click chemistry for dynamic *in vivo* imaging.

Baskin, J. M.; Prescher, J. A.; Laughlin, S. T.; Agard, N. J.; Chang, P. V.; Miller, I. A.; Lo, A.; Codelli, J. A.; Bertozzi, C. R.\* *Proc. Natl. Acad. Sci. USA* 2007, 104, 16793-16797.

[ [Abstract](#) ]

5 Nov 2007, presented by Renato Bauer

Total synthesis of azadirachtin - Finally completed after 22 years.

Jauch, J.\* *Angew. Chem. Intl. Ed.* 2007, 46, in press.

[ [Abstract](#) ]

29 Oct 2007, presented by Xuequan Lu

Synthesis and evaluation of stimulatory properties of *Sphingomonadaceae* glycolipids.

Long, X.; Deng, S.; Mattner, J.; Zang, Z.; Zhou, D.; McNary, N.; Goff, R. D.; Teyton, L.; Bendelac, A.; Savage, P. B.\* *Nat. Chem. Biol.* 2007, 3, 559-564.

[ [Abstract](#) ]

22 Oct 2007, presented by Felix Kopp

Contribution of a solute's chiral solvent imprint to optical rotation.

Mukhopadhyay, P.; Zuber, G.; Wipf, P.; Beratan, D. N.\* *Angew. Chem. Intl. Ed.* 2007, 46, 6450-6452.

[ [Abstract](#) ]

24 Sep 2007, presented by Justin Cisar

Selective compounds define Hsp90 as a major inhibitor of apoptosis in small-cell lung cancer.

Rodina, A.; Vilenchik, M.; Moulick, K.; Aguirre, J.; Kim, J.; Chiang, A.; Litz, J.; Clement, C. C.; Kang, Y.; She, Y.; Wu, N.; Felts, S.; Wipf, P.; Massague, J.; Jiang, X.; Brodsky, J. L.; Krystal, G. W.; Chiosis, G.\* *Nat. Chem. Biol.* 2007, 3, 498-507.

[ [Abstract](#) ]

18 Sep 2007, presented by Shiyong Shang

Epoxide-opening cascades promoted by water.

Vilotijevic, I.; Jamison, T. F.\* *Science* 2007, 317, 1189-1192.

[ [Abstract](#) ]

25 Jul 2007, presented by Xuequan Lu

An antifungal agent inhibits an aminoacyl-tRNA synthetase by trapping tRNA in the editing site.

Rock, F. L.; Mao, W.; Yaremchuk, A.; Tukalo, M.; Crépin, T.; Zhou, H.; Zhang, Y.-K.; Hernandez, V.; Akama, T.; Baker, S. J.; Plattner, J. J.; Shapiro, L.; Martinis, S. A.; Benkovic, S. J.; Cusack, S.; Alley M. R. K.\* *Science* 2007, 316, 1759-1761.

[ [Abstract](#) ]

2 Jul 2007, presented by Felix Kopp

Calcium Green FIAsh as a genetically targeted small-molecule calcium indicator.

Tour, O.; Adams, S. R.; Kerr, R. A.; Meijer, R. M.; Sejnowski, T. J.; Tsien, R. W.; Tsien, R. Y.\* *Nat. Chem. Biol.* 2007, 3, 423-431.

[ [Abstract](#) ]

18 Jun 2007, presented by Chris DiBlasi

Evolving the lock to fit the key to create a family of G protein-coupled receptors potently activated by an inert ligand.

Armbruster, B. N.; Li, X.; Pausch, M. H.; Herlitze, S.; Roth, B. L.\* *Proc. Natl. Acad. Sci. USA* 2007, 104, 5163-5168.

[ [Abstract](#) ]

11 Jun 2007, presented by Guodong Liu

Probing the dynamics of O-GlcNAc glycosylation in the brain using quantitative proteomics.

Khidekel, N.; Ficcaro, S. B.; Clark, P. M.; Bryan, M. C.; Swaney, D. L.; Rexach, J. E.; Sun, Y. E.; Coon, J. J.; Peters, E. C.; Hsieh-Wilson, L. C.\* *Nat. Chem. Biol.* 2007, 3, 339-348.

[ [Abstract](#) ]

21 May 2007, presented by Justin Cisar

A semisynthetic epitope for kinase substrates.

Allen, J. J.; Li, M.; Brinkworth, C. S.; Paulson, J. L.; Wang, D.; Hübner, A.; Chou, W.-H.; Davis, R. J.; Burlingame, A. L.; Messing, R. O.; Katayama, C. D.; Hedrick, S. M.; Shokat, K. M.\* *Nat. Methods* 2007, 4, 511-516.

[ [Abstract](#) ]

15 May 2007, presented by Shiyong Shang

Nicotinamide riboside promotes Sir2 silencing and extends lifespan via Nrk and Urh1/Pnp1/Meu1 pathways to NAD<sup>+</sup>.

Belenky, P.; Racette, F. G.; Bogan, K. L.; McClure, J. M.; Smith, J. S.\*; Brenner, C. B.\* *Cell* 2007, 129, 473-484.

[ [Abstract](#) ]

7 May 2007, presented by Xuequan Lu

Selective chemical probe inhibitor of Stat3, identified through structure-based virtual screening, induces antitumor activity.

Siddiquee, K.; Zhang, S.; Guida, W. C.; Blaskovich, M. A.; Greedy, B.; Lawrence, H. R.; Yip, M. L. R.; Jove, R.; McLaughlin, M. M.; Lawrence, N. J.; Sebt, S. M.; Turkson, J.\* *Proc. Natl. Acad. Sci. USA* 2007, 104, 7391-7396.

[ [Abstract](#) ]

*2 May 2007, presented by Chris DiBlasi*

Chemical genetics reveals a complex functional ground state of neural stem cells.

Diamandis, P.; Wildenhain, J.; Clarke, I. D.; Sacher, A. G.; Graham, J.; Bellows, D. S.; Ling, E. K. M.; Ward, R. J.; Jamieson, L. G., Tyers, M.\*; Dirks, P. B.\* *Nat. Chem. Biol.* 2007, 3, 268-273.

[ [Abstract](#) ]

*23 Apr 2007, presented by Guodong Liu*

Fluorogenic probes for monitoring peptide binding to class II MHC proteins in living cells.

Venkatraman, P.; Nguyen, T. T.; Sainlos, M.; Bilsel, O.; Chitta, S.; Imperiali, B.\*; Stern, L. J.\* *Nat. Chem. Biol.* 2007, 3, 222-228.

[ [Abstract](#) ]

*9 Apr 2007, presented by Justin Cisar*

A streamlined metabolic pathway for the biosynthesis of moenomycin A.

Ostash, B.; Saghatelian, A.; Walker, S.\* *Chem. Biol.* 2007, 14, 257-267.

[ [Abstract](#) ]

*2 Apr 2007, presented by Shiyong Shang*

The site-specific installation of methyl-lysine analogs into recombinant histones.

Simon, M. D.; Chu, F.; Racki, L. R.; de la Cruz, C. C.; Burlingame, A. L.; Panning, B.; Narlikar, G. J.; Shokat, K. M.\* *Cell* 2007, 128, 1003-1012.

[ [Abstract](#) ]

*20 Mar 2007, presented by Sirkka Moilanen*

Activating gene expression in mammalian cells with promoter-targeted duplex RNAs.

Janowski, B. A.\*; Younger, S. T.; Hardy, D. B.; Ram, R.; Huffman, K. E.; Corey, D. R.\* *Nat. Chem. Biol.* 2007, 3, 166-173.

[ [Abstract](#) ]

*5 Mar 2007, presented by Xuequan Lu*

Noxious compounds activate TRPA1 ion channels through covalent modification of cysteines.

Macpherson, L. J.; Dubin, A. E.; Evans, M. J.; Marr, F.; Schultz, P. G.; Cravatt, B. F.; Patapoutian, A.\* *Nature* 2007, 445, 541-545.

[ [Abstract](#) ]

*27 Feb 2007, presented by Christine DiBlasi*

Alkynyl sugar analogs for the labeling and visualization of glycoconjugates in cells.

Hsu, T.-L.; Hanson, S. R.; Kishikawa, K.; Wang, S.-K.; Sawa, M.; Wong, C.-H.\* *Proc. Natl. Acad. Sci. USA* 2007, 104, 2614-2619.

[ [Abstract](#) ]

*19 Feb 2007, presented by Guodong Liu*

A membrane receptor for retinol binding protein mediates cellular uptake of vitamin A.

Kawaguchi, R.; Yu, J.; Honda, J.; Hu, J.; Whitelegge, J.; Ping, P.; Wiita, P.; Bok, D.; Sun, H.\* *Science* 2007, 315, 820-825.

[ [Abstract](#) ]

*12 Feb 2007, presented by Justin Cisar*

Pyocyanin isolated from a marine microbial population: Synergistic production between two distinct bacterial species and mode of action.

Angell, S.; Bench, B. J.; Williams, H.; Watanabe, C. M. H.\* *Chem. Biol.* 2006, 13, 1349-1359.

[ [Abstract](#) ]

29 Jan 2007, presented by Shiyang Shang

Activity-based probes for proteomic profiling of histone deacetylase complexes.

Salisbury, C. M.; Cravatt, B. F.\* *Proc. Natl. Acad. Sci. USA* 2007, *104*, 1171-1176.

[ [Abstract](#) ]

22 Jan 2007, presented by Sirkka Moilanen

Small-molecule mimics of an  $\alpha$ -helix for efficient transport of proteins into cells.

Okuyama, M.; Laman, H.; Kingsbury, S. R.; Visintin, C.; Leo, E.; Leigh Eward, K.; Stoeber, K.; Boshoff, C.; Williams, G. H.; Selwood D. L.\* *Nat. Methods* 2007, *4*, 153-159.

[ [Abstract](#) ]

15 Jan 2007, presented by Xuequan Lu

Engineering yeast transcription machinery for improved ethanol tolerance and production.

Alper, H.; Moxley, J.; Nevoigt, E.; Fink G. R.; Stephanopoulos, G\* *Science* 2005, *314*, 1565-1568.

[ [Abstract](#) ]

8 Jan 2007, presented by Hayato Iwadare

Forward chemical genetic approach identifies new role for GAPDH in insulin signaling.

Min, J.; Kim, Y. K.; Cipriani, P. G.; Kang, M.; Khersonsky, S. M.; Walsh, D. P.; Lee, J.-Y.; Niessen, S.; Yates, J. R.; Gunsalus, K.; Piano, F.; Chang, Y.-T.\* *Nat. Chem. Biol.* 2007, *3*, 55-59.

[ [Abstract](#) ]

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