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Next Due Date: Monday, October 17, 2016

Instructions for Authors (Volume 1)

Identify articles to abstract in the journals you have been assigned. Try to pick things that the group (or specific subgroups) would like to read or should be aware of. This does not need to be limited to chemistry! If you encounter interesting pieces of media elsewhere (The Economist being a recent example) don't hesitate to let the group know. If you are splitting a journal with another group member, talk with him/her to be sure you are not reviewing redundantly. If you are not able to cover your journal for some reason, get someone to cover it for you—as if it were your group job.

Create an Abstract

Abstract submissions are usually prepared using ChemDraw. The editors of the *Lit Review* strongly encourage the copying of graphical material from PDF files and wish to point out the following. Graphics stored in PDF files are typically of postscript or >300 dpi quality. When an image is copied into a ChemDraw document, a screen snapshot is taken, and the image is captured at the present screen resolution. If the PDF file is being viewed zoomed-in, this typically results in the transfer of a high quality image. If the PDF is being viewed zoomed-out, a low quality image typically results. Text can be copied from a PDF file and pasted as text using the text select or column select tool. Once pasted, this text behaves as if it were input from the keyboard.

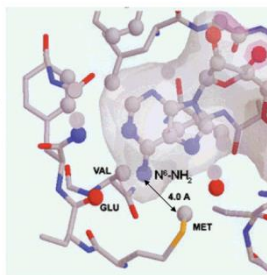
Include a brief textual summary of the article; an example of a completed abstract is shown below. The list of topics and subgroups on the right is useful to highlight which subgroups should pay attention to your abstract and roughly what kind of chemistry the article contains.

Please email the files to knear@stanford.edu. Late abstracts will be included in the Lit Review for the following month. **PCs please send .cdx and macs please send .pdf files.**

Citation: Abeyweera, T.P.; Rotenberg, S.A. *Biochemistry* 2007, 46, 2364-2370

Design and Characterization of a Traceable Protein Kinase C-alpha

Protein kinase CR (PKCR) is a critical component of pathways that govern cancer-related phenotypes such as invasion and proliferation. Proteins that serve as immediate substrates for PKCR offer potential targets for anticancer drug design. To identify specific substrates, a mutant of PKCR (M417A) was constructed at the ATP binding site such that it could bind a sterically large ATP analogue derivatized through the N6 amino group of adenosine (1- β -³²P-*N*-6-phenyl-ATP). Because this analogue could be utilized by the mutant kinase but not by wild-type PKCR (or presumably other protein kinase) to phosphorylate peptide or protein substrates, ³²P-labeled products were the direct result of the mutant PKCR.



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Citation: Dictionary.com (search term = "mook")

For those of you who always wanted to know what it meant....

mook **Pronunciation Key** (mk) *n. Slang*

An insignificant or contemptible person.

methods
synthesis

DON'T BE A MOOK!

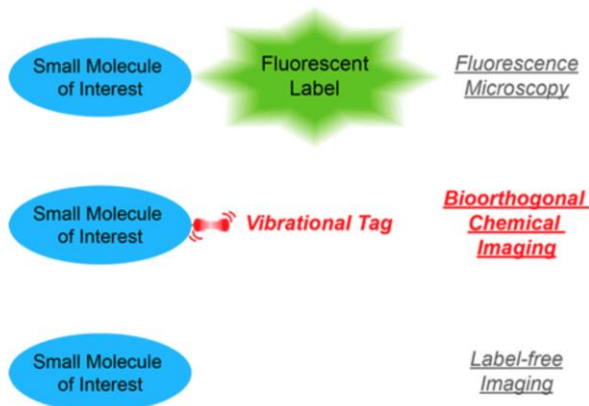
Lit Review MOOKS include those who:

- fail to submit their abstracts in a timely fashion (or at all), or
- claim there was nothing to abstract in *JACS*, *JOC*, *Org. Lett.*, etc.

Penalties for being a Lit Review MOOK:

- You will get last choice when it's time to pick new journals.

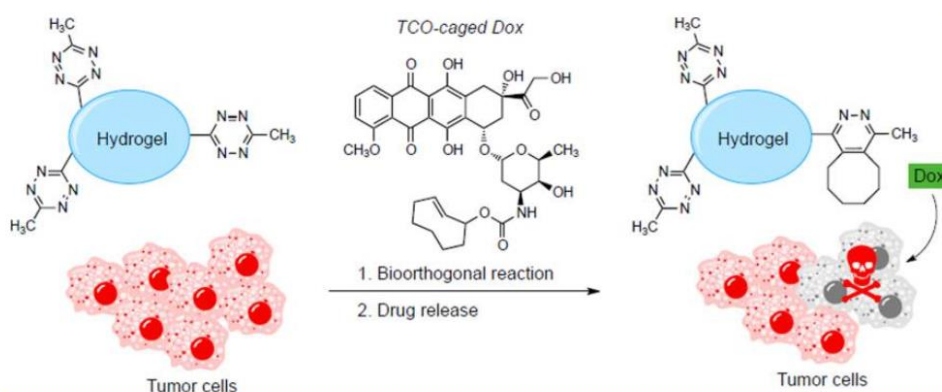
Live-Cell Bioorthogonal Chemical Imaging: Stimulated Raman Scattering Microscopy of Vibrational Probes



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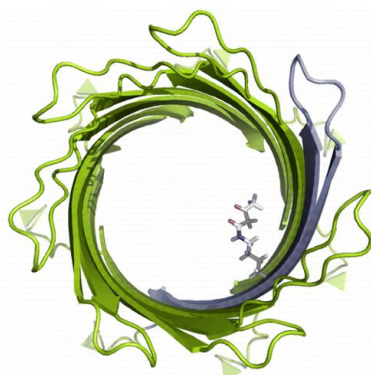
Tetrazine Marks the Spot



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Semisynthetic Nanoreactor for Reversible Single-Molecule Covalent Chemistry

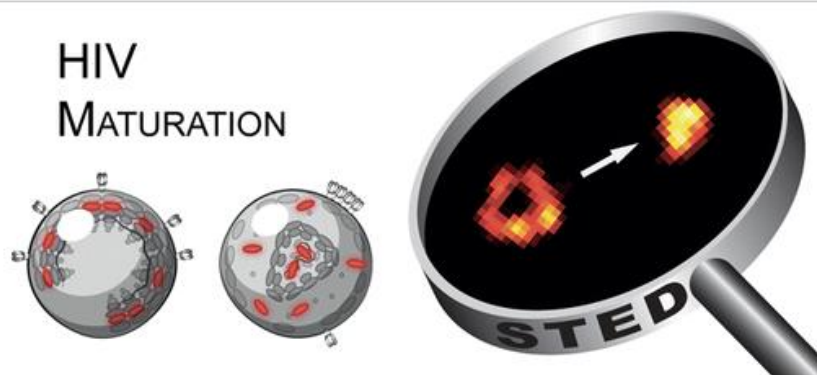


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Citation: Hanne, J et. al, *ACS Nano*, 2016, ASAP

Stimulated Emission Depletion Nanoscopy Reveals Time-Course of Human Immunodeficiency Virus Proteolytic Maturation

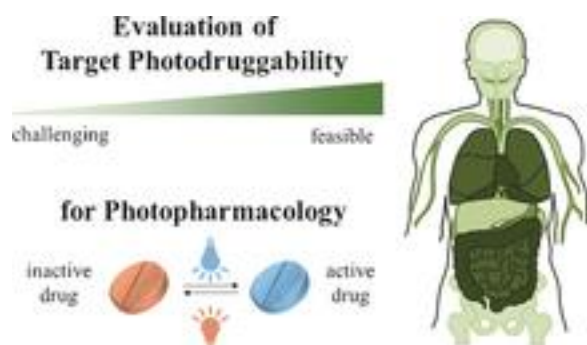


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Citation: Lerch, M. M. et al. *Angew. Chem. Int. Ed.* 2016, 25, 10978–10999.

Emerging Targets in Photopharmacology



Spotlight on the patient: The impressive advances made in the field of photopharmacology in recent years are critically reviewed with respect to the “photodrugability” of medicinal targets and prospects for the selective delivery of light to different organs. This Review is meant to provide a stimulus for chemists to enter this exciting field, with fascinating opportunities to bring “smart” molecular design to the realm of clinical use.

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Citation: Lee, Y. et al. *Angew. Chem Int. Ed.* 2016, 55,10676-10680.

Multistimuli-Responsive Bilirubin Nanoparticles for Anticancer Therapy

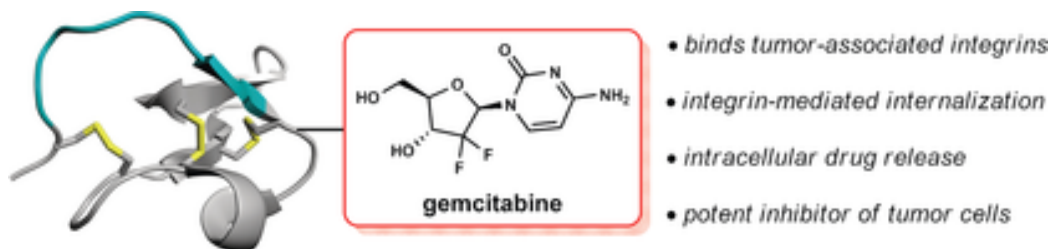


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Citation: Yu, C. et al. *Angew. Chem Int. Ed.* **2016**, *55*, 9272-9276.

Integrin-Targeting Knottin Peptide–Drug Conjugates Are Potent Inhibitors of Tumor Cell Proliferation



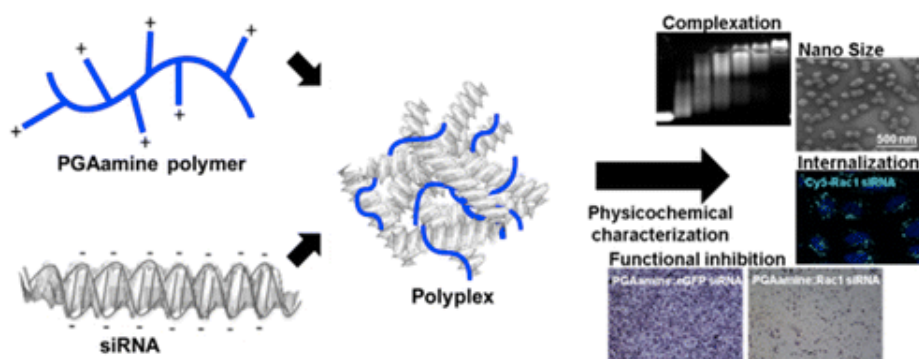
Tied up in knottins: Tumor-targeted knottin peptide-drug conjugates (KDC) are significantly smaller than antibody–drug conjugates, allowing for facile synthesis and conjugation. A KDC bearing the nucleoside gemcitabine is internalized by an integrin-mediated mechanism, releases its payload intracellularly, and is shown to be a highly potent inhibitor of several malignant cell lines.

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Citation: Krivitsky, A. et al. *Biomacromolecules* **2016**, *17*(9), 2787-2800.

Structure-Function Correlation of Aminated Poly(a)glutamate as siRNA Nanocarriers



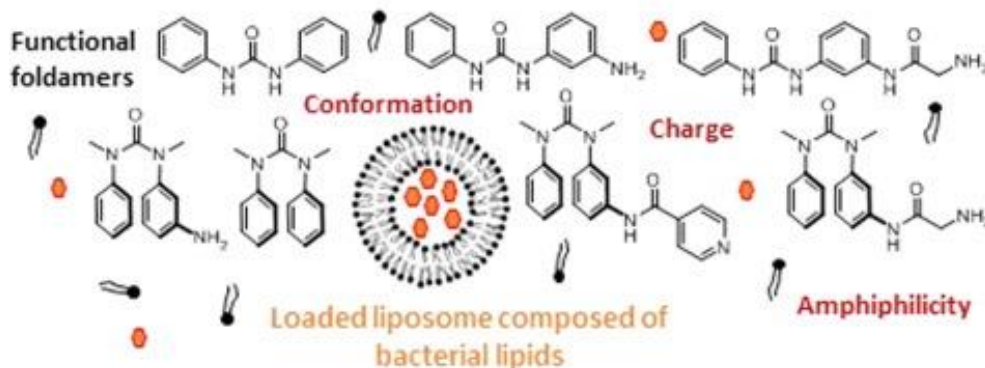
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Citation: Patil-Sen, Y. et al. *Bioorg. Med. Chem.* **2016**, *24*, 4241-4245.

Functional foldamers that target bacterial membranes: The effect of charge, amphiphilicity and conformation

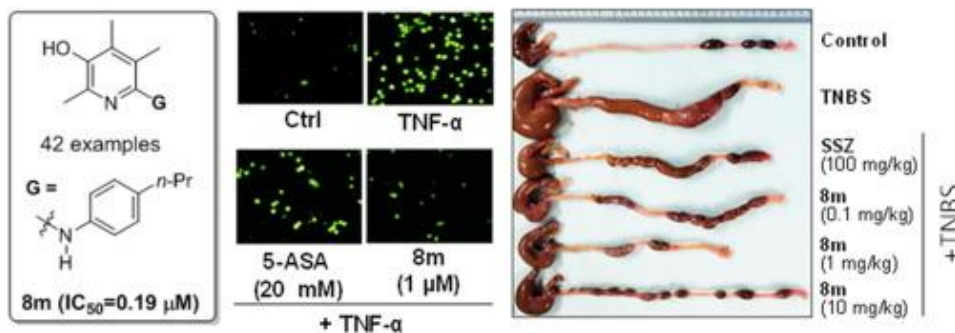
Foldamer-induced membrane rupture of bacterial lipid-containing vesicles



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In vitro and in vivo inhibitory activity of 6-amino-2,4,5-trimethylpyridin-3-ols against inflammatory bowel disease

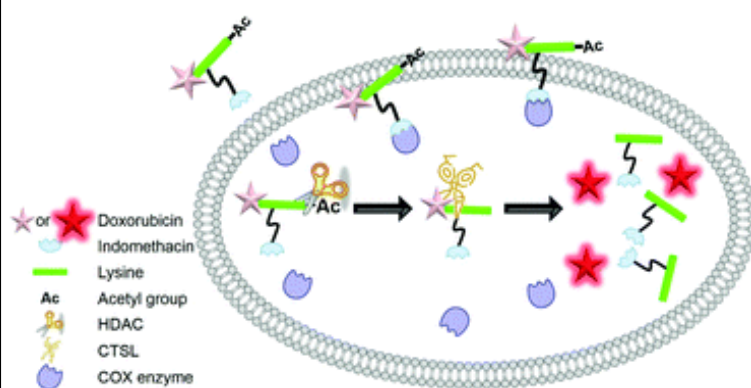


putting the "graphic" in graphical abstract

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Indomethacin-guided cancer selective prodrug conjugate activated by histone deacetylase and tumour-associated protease

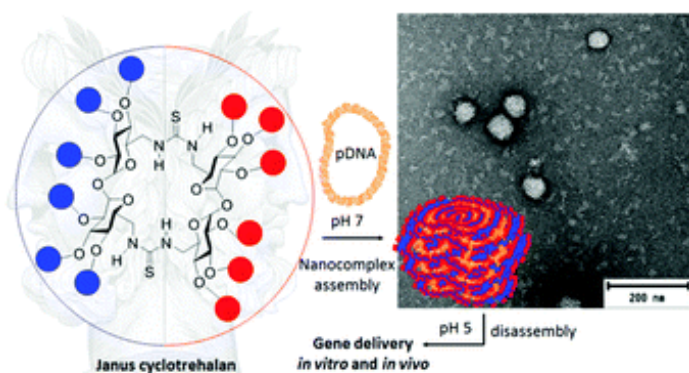


An indomethacin-guided drug delivery conjugate (IGDDC) has been designed by utilizing cancer associated elevated HDAC and CTSL activities as consecutive demasking ventures for drug activation. IGDDC exhibited preferential uptake by COX-2 positive cells both in vitro and ex vivo.

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Trehalose-based Janus cyclooligosaccharides: the "Click" synthesis and DNA-directed assembly into pH-sensitive transfectious nanoparticles



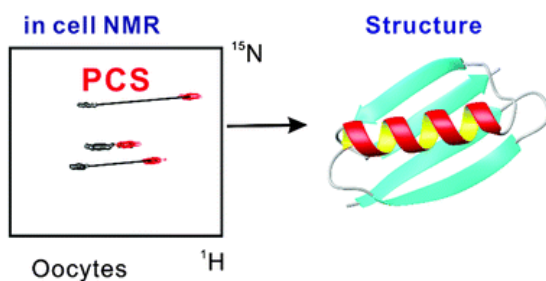
The authors synthesized macrocycles with segregated cationic and lipophilic domains that in the presence of DNA undergo pH-dependent self-assembly into lamellar superstructures, as established by electrochemical, structural (SAXS), microscopical (TEM) and computational techniques, that mediate transfection in vitro and in vivo.

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Citation: Pan, B.-B.; *et al. Chem. Commun.* **2016**, 52, 10237.

3D structure determination of a protein in living cells using paramagnetic NMR spectroscopy



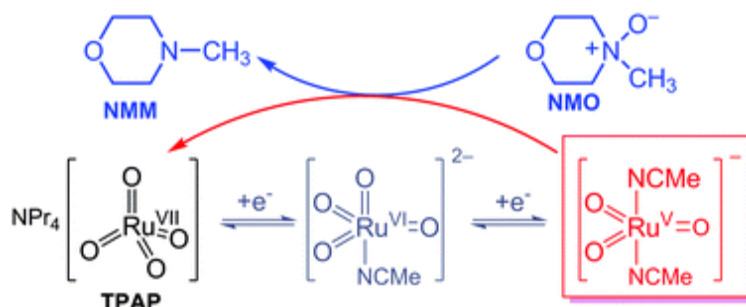
Determining the three-dimensional structure of a protein in living cells remains particularly challenging. The authors demonstrated that the integration of site-specific tagging proteins and GPS-Rosetta calculations provides a fast and effective way of determining the structures of proteins in living cells, and in principle the interactions and dynamics of protein–ligand complexes.

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Citation: Zerk, T. J.; *et al. Chem. Commun.* **2016**, 52, 10301.

N-Oxides rescue Ru(V) in catalytic Griffith–Ley (TPAP) alcohol oxidations



CV and UV-vis analysis of $[RuO_4]^-$ has provided new insight into the key ruthenium oxidation states involved in the Sharpless and Griffith–Ley one-step alcohol oxidation protocol. Furthermore, the oxidation states sensitive to the presence of the N-oxide co-oxidant N-methylmorpholine N-oxide (NMO), and its role in catalysis, have been determined.

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Citation: August 29, 2016 Issue - Vol. 94 Issue 34 | Chemical & Engineering News

Graduate students at private schools may unionize

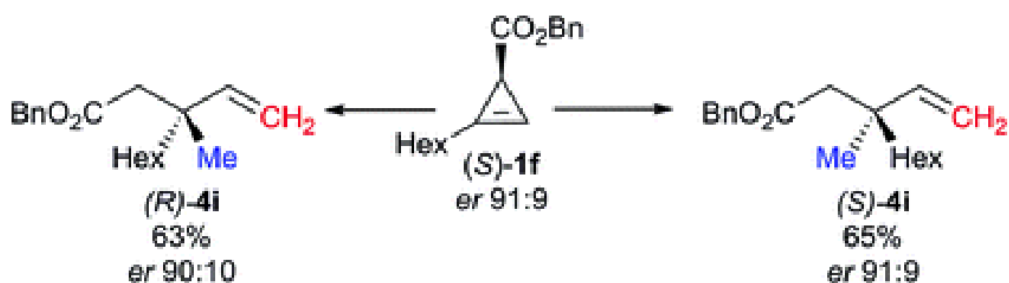


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Citation: Roy, S. R.; et al. *Chem. Sci.* 2016, 7, 5989

Diastereodivergent combined carbometalation/zinc homologation/C-C fragmentation reaction as an efficient tool to prepare acyclic allylic quaternary carbon stereocenters

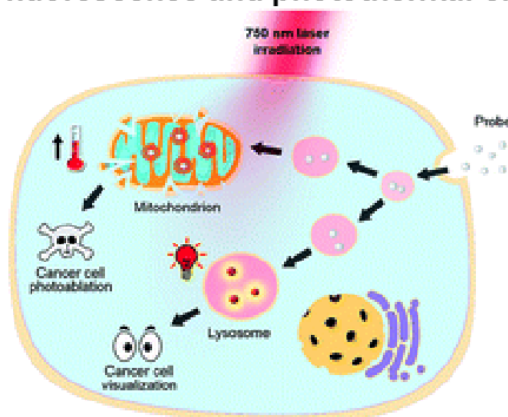


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Citation: Zhang, J.; et al. *Chem. Sci.* 2016, 7, 5995

Selective imaging and cancer cell death via pH switchable near-infrared fluorescence and photothermal effects

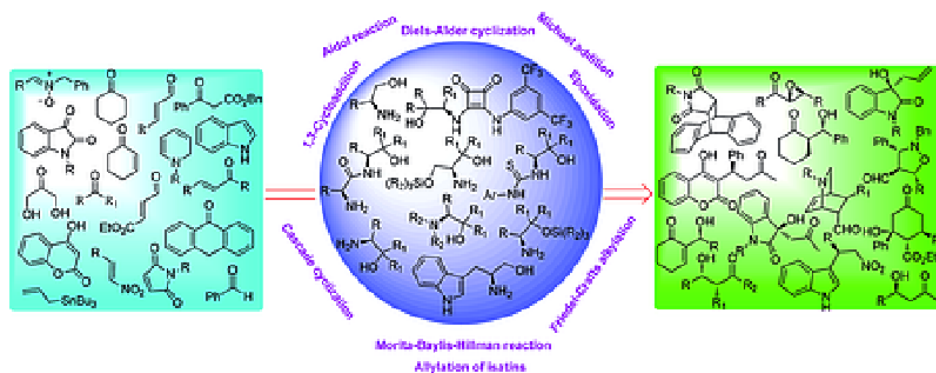


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Citation: Reddy, U. V. S. et al. *Eur. J. Org. Chem.* 2016, 24, 4124-4143

Catalytic Efficiency of Primary β -Amino Alcohols and Their Derivatives in Organocatalysis

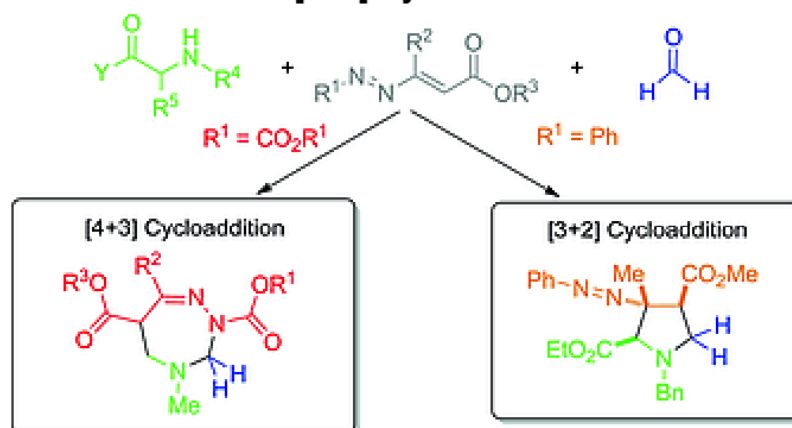


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Citation: Mantenuo, S. et al. *Eur. J. Org. Chem.* 2016, 24, 4144-4151

Reactivity of 1,2-Diaza-1,3-dienes with Azomethine Ylides: [3+4] versus [3+2] Cycloadditions

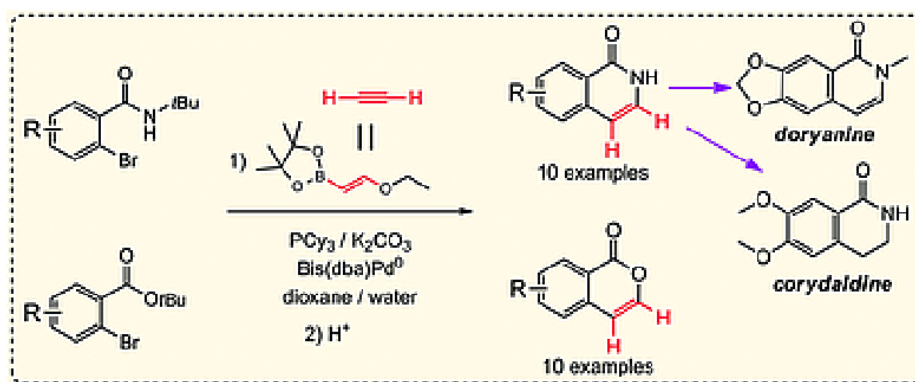


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Citation: Toure, M. et al. *Eur. J. Org. Chem.* 2016, 24, 4171-4175

Expedient Synthesis of Isoquinolones and Isocoumarins with a Vinyl Borane as an Acetylene Equivalent

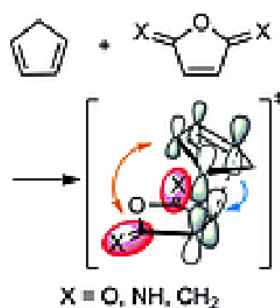


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Citation: Sakata, K. et al. *Eur. J. Org. Chem.* 2016, 25, 4275-4278

Origin of the *endo* Selectivity in the Diels-Alder Reaction between Cyclopentadiene and Maleic Anhydride

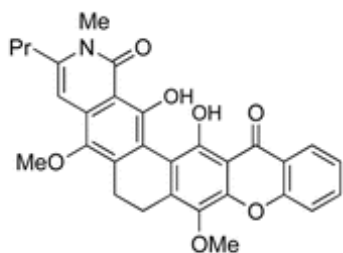


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Citation: *JACS*, **2016**, *138*, 10561.

Synthesis and Biological Evaluation of Kibderlone C and Its Simplified Derivatives



Simplified derivative of kibdelone C

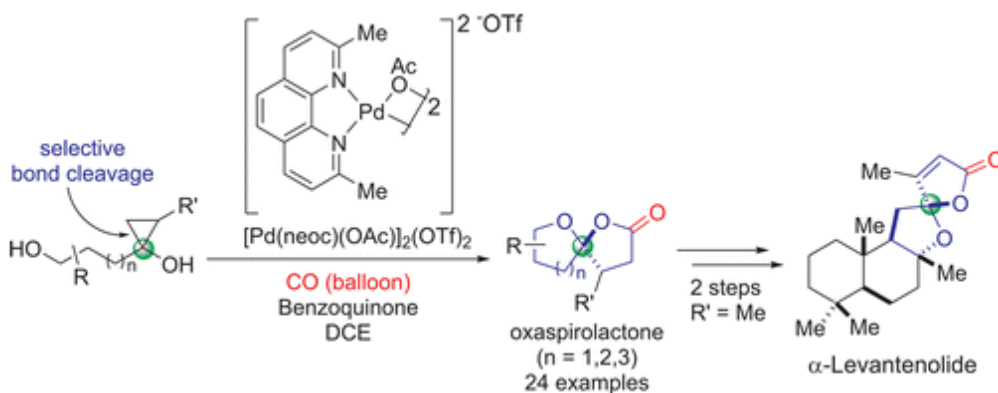
Polycyclic tetrahydroxanthenes comprise a large class of cytotoxic natural products. The Ready lab reports the synthesis of kibdelone C and several analogs. The products were found to disrupt the actin cytoskeleton and show low nanomolar cytotoxicity in multiple human cancer cell lines.

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Citation: *JACS*, **2016**, *138*, 10693.

Catalytic Carbonylative Spirolactonization of Hydroxycyclopropanols



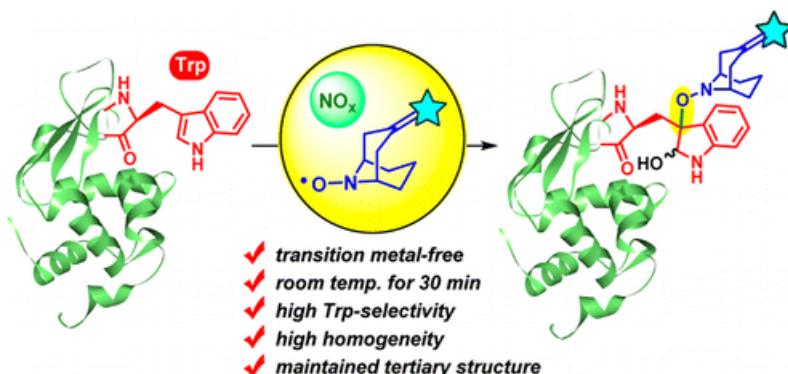
Work done in collaboration with the Zare and Waymouth groups

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Citation: Yohei Seki, Takashi Ishiyama, Daisuke Sasaki, Junpei Abe, Youhei Sohma, Kounosuke Oisaki, and Motomu Kanai. *JACS* 2016 138 (34), 10798-10801

Transition Metal-Free Tryptophan-Selective Bioconjugation of Proteins

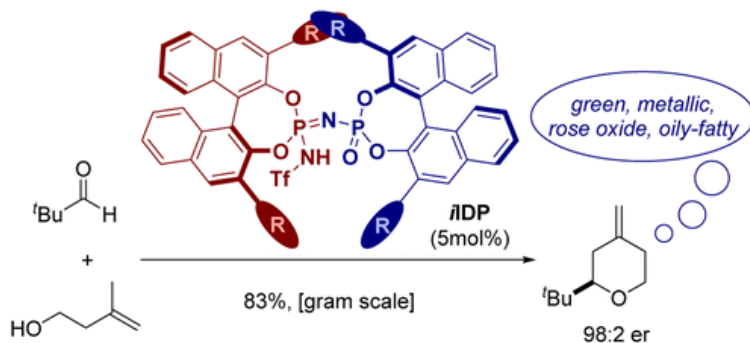


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Citation: Luping Liu, Philip S. J. Kaib, Aurélien Tap, and Benjamin List
Journal of the American Chemical Society 2016 138 (34), 10822-10825

A General Catalytic Asymmetric Prins Cyclization

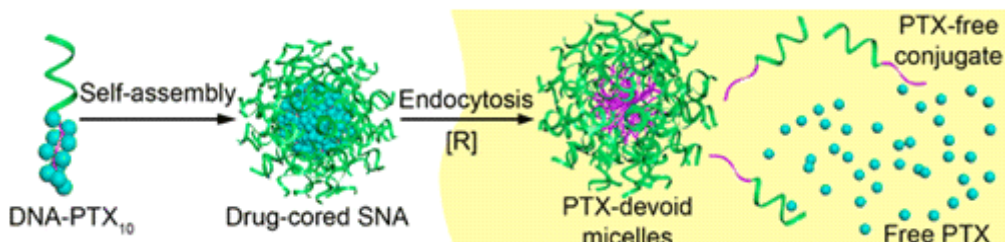


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Citation: Xuyu Tan, Xueguang Lu, Fei Jia, Xiaofan Liu, Yehui Sun, Jessica K. Logan, and Ke Zhang
Journal of the American Chemical Society 2016 138 (34), 10834-10837

Blurring the Role of Oligonucleotides: Spherical Nucleic Acids as a Drug Delivery Vehicle



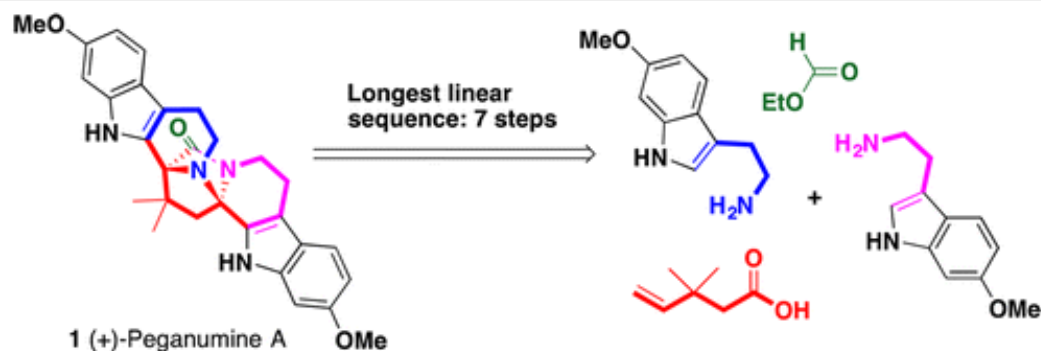
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Citation: JACS, 2016, 138, 11148.

Enantioselective Total Synthesis of (+)-Peganumine A

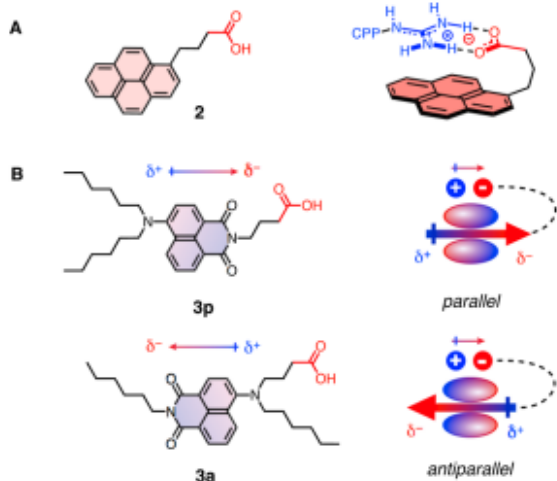
Gram-scale enantioselective total synthesis of a natural product with significant bioactivity.



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Citation: *JACS*, **2016**, *138*, 11264.



Activation of Cell-Penetrating Peptides with Ionpair-pi Interactions and Fluorophiles

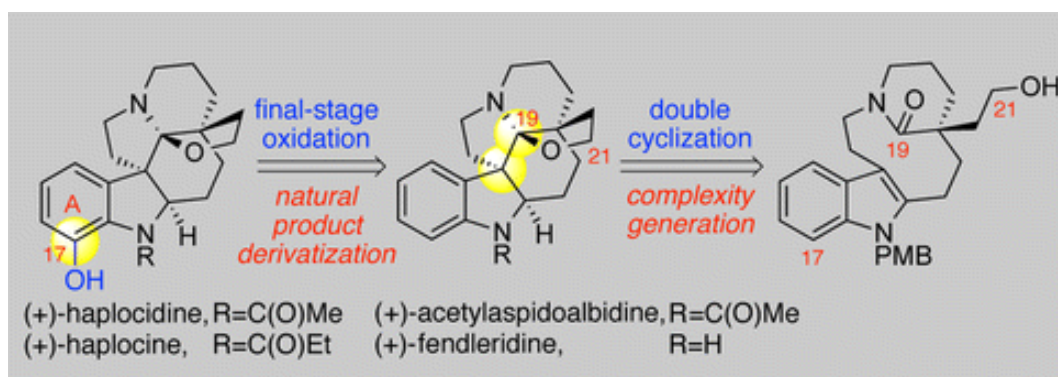
Parallel but not antiparallel ionpair-pi interactions afford operational CPP activators in model membranes and cells. Counterion-mediated uptake may be a productive mode of action of arginine-rich CPPs.

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Citation: *JACS*, **2016**, *138*, 11383.

Concise Total Synthesis of (+)-Haplocidine and (+)-Haplocine via Late-Stage Oxidation of (+)-Fendleridine Derivatives

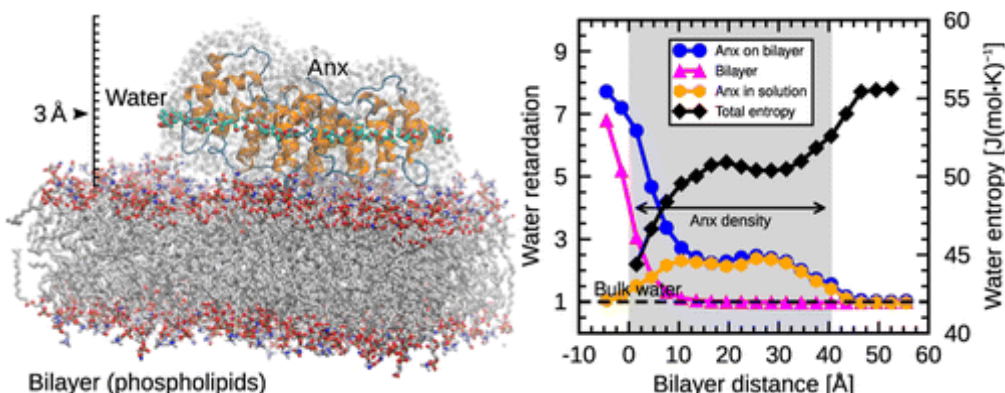


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Citation: Olivier Fiset, Lars V. Schäfer, et al. *Journal of the American Chemical Society* 2016 138 (36), 11526-11535

Hydration Dynamics of a Peripheral Membrane Protein

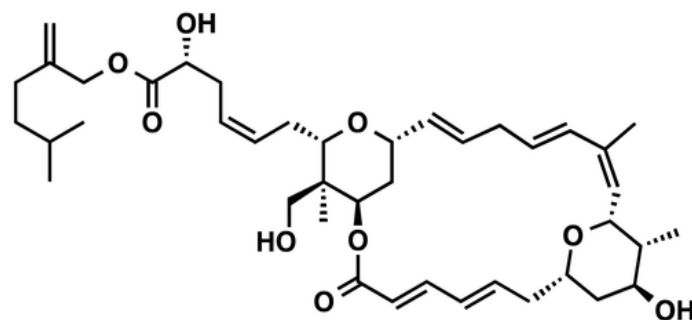


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Citation: Barry M. Trost, Craig E. Stivala, Daniel R. Fandrlick, Kami L. Hull, Audris Huang, Caroline Poock, and Rainer Kalkofen. JACS 2016 138 (36), 11690-11701

Total Synthesis of (-)-Lasonolide A



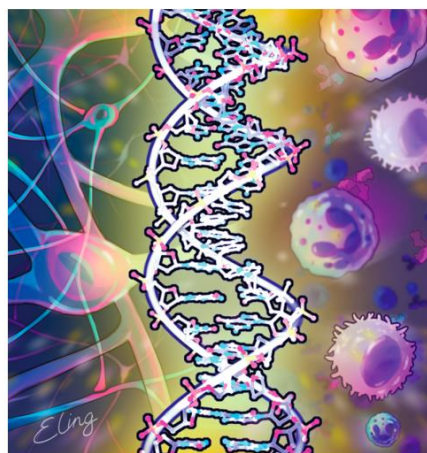
(-)-lasonolide A

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Citation: JAMA. 2016;316(9):917. doi:10.1001/jama.2016.11071.

Study Provides Insights on ALS

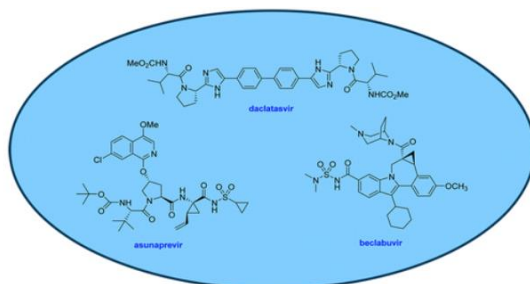


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Citation: Meanwell, N. A. J. Med. Chem. 2016, 59 (16), 7311-7351

2015 Philip S. Portoghese Medicinal Chemistry Lectureship. Curing Hepatitis C Virus Infection with Direct-Acting Antiviral Agents: The Arc of a Medicinal Chemistry Triumph

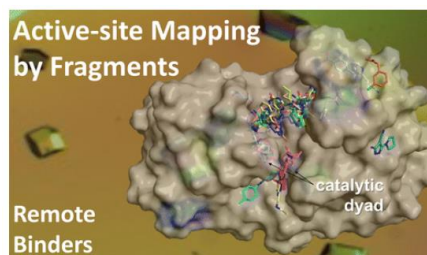


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Citation: Radeva, N.; *et al. J. Med. Chem.* **2016**, 59 (16), 7561-7575

Experimental Active-Site Mapping by Fragments: Hot Spots Remote from the Catalytic Center of Endothiapepsin

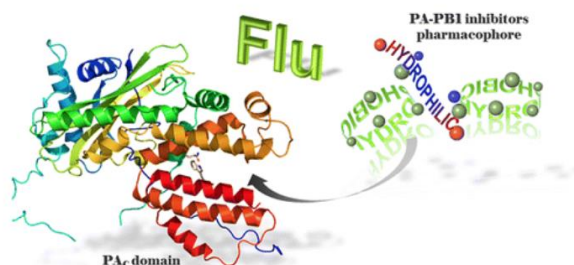


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Citation: Massari, S.; *et al. J. Med. Chem.* **2016**, 59 (17), 7699-7718

Polymerase Acidic Protein-Basic Protein 1 (PA-B1) Protein-Protein Interaction as a Target for Next-Generation Anti-influenza Therapeutics

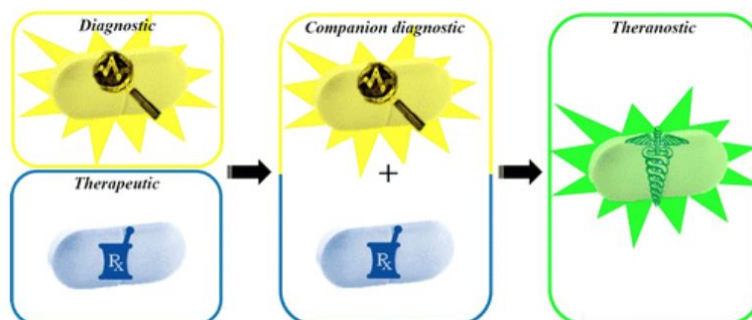


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Citation: Bolognesi, M.L.; *et al. J. Med. Chem.* **2016**, 59 (17), 7759-7770

From Companion Diagnostics to Theranostics: A New Avenue for Alzheimer's Disease?

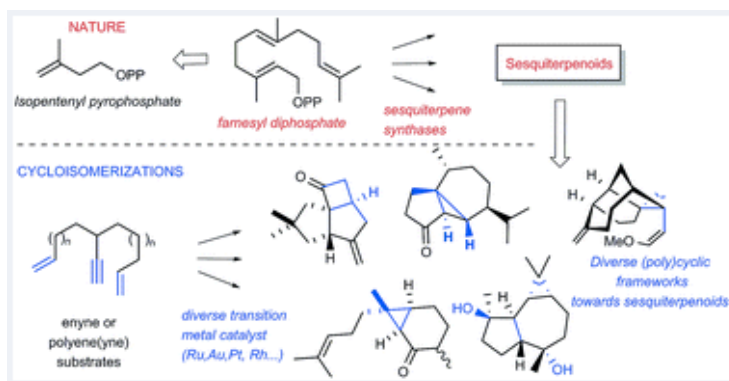


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Citation: Stathakis, C. I. et al. *Nat. Prod. Rep.*, 2016, 33,1093-1117.

Metal-catalyzed cycloisomerization as a powerful tool in the synthesis of complex sesquiterpenoids

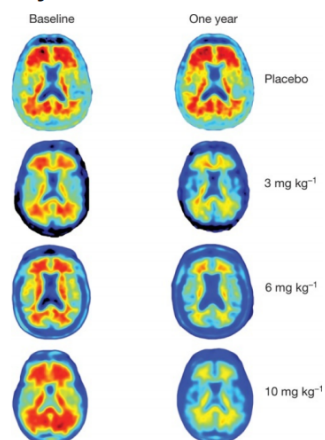


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Citation: J Sevigny et al. *Nature* 537, 50-56 (2016) doi:10.1038/nature19323

The antibody aducanumab reduces Ab plaques in Alzheimer's disease

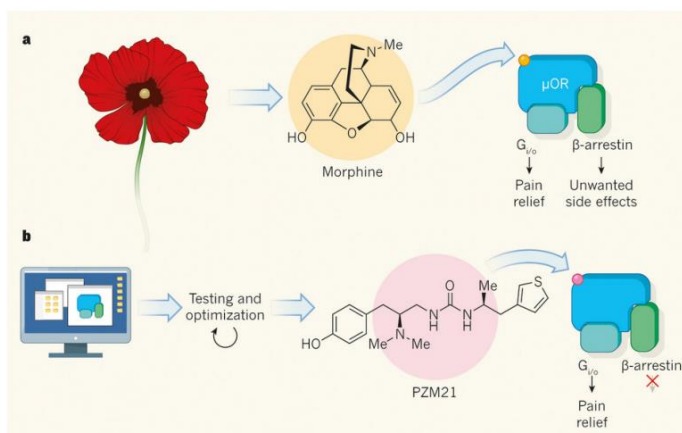


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Citation: *Nature* 537, 185–190 (08 September 2016) doi:10.1038/nature19112

Structure-based discovery of opioid analgesics with reduced side effects



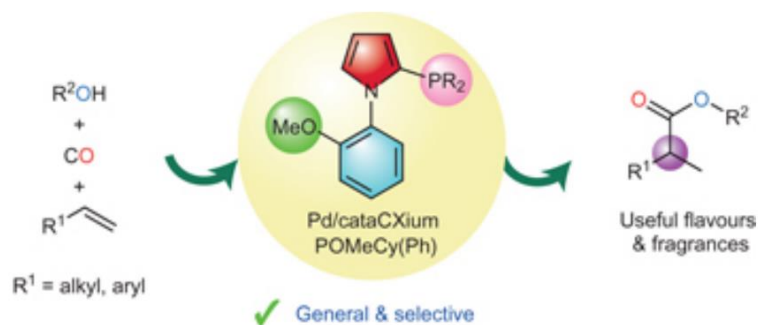
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Citation: **Nature Chemistry (2016) doi:10.1038/nchem.2586**

The scope and mechanism of palladium-catalysed Markovnikov alkoxy carbonylation of alkenes

Haoquan Li, Kaiwu Dong, Haijun Jiao, Helfried Neumann, Ralf Jackstell & Matthias Beller



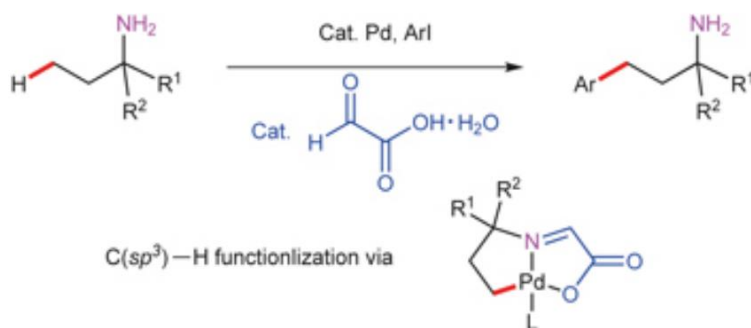
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Citation: **Nature Chemistry (2016) doi:10.1038/nchem.2606**

Site-selective C–H arylation of primary aliphatic amines enabled by a catalytic transient directing group

Yongbing Liu & Haibo Ge



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Citation: **N Engl J Med 2016 September 13, 2016. DOI: 10.1056/NEJMcibr1610065**

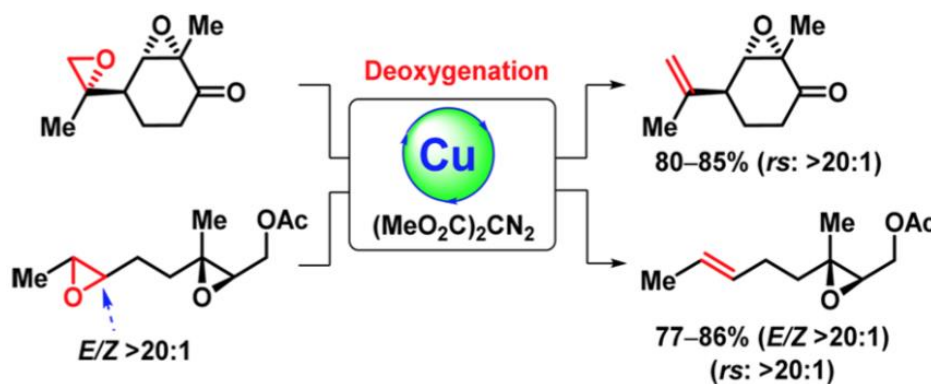
The Hypoxia Response Pathways — Hats Off!

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Citation: Yu, J.; Zhuo, Y.; Lin, Z.; & Tong, R. *Org. Lett.* **2016**, ASAP

Regioselective and Stereospecific Copper-Catalyzed Deoxygenation of Epoxides to Alkenes

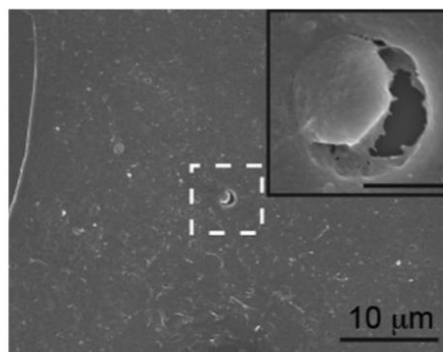
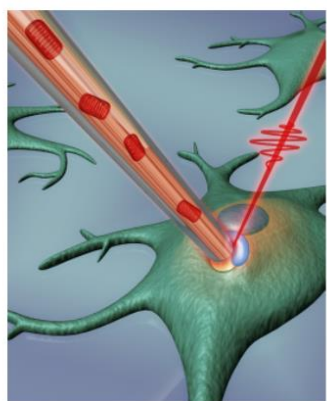


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Citation: PNAS 2016, 113 (35), 9663–9664.

Light-controlled cellular surgery

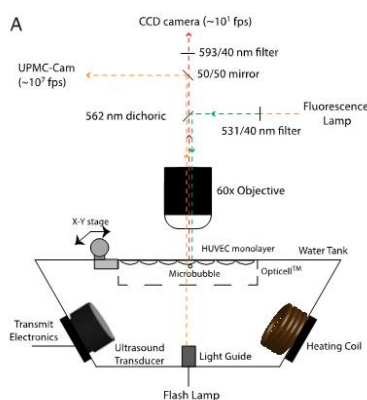
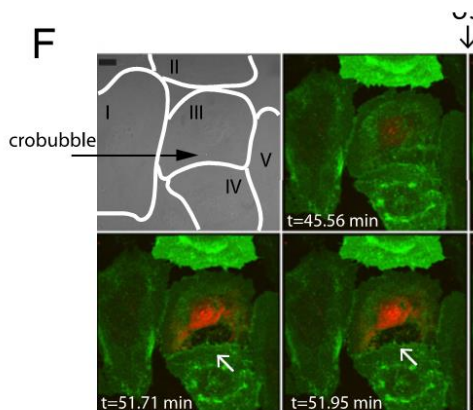


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Citation: PNAS 2016, 113 (36), 9983–9988.

Biophysical insight into mechanisms of sonoporation



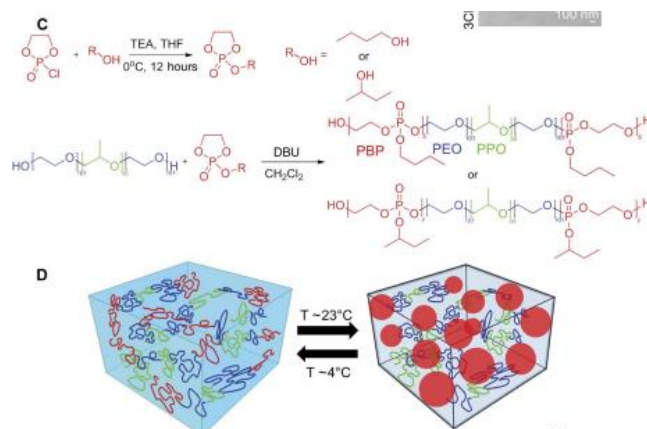
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Treatment of otitis media by transtympanic delivery of antibiotics

Pentablock hydrogels deliver antibiotics to treat ear infections

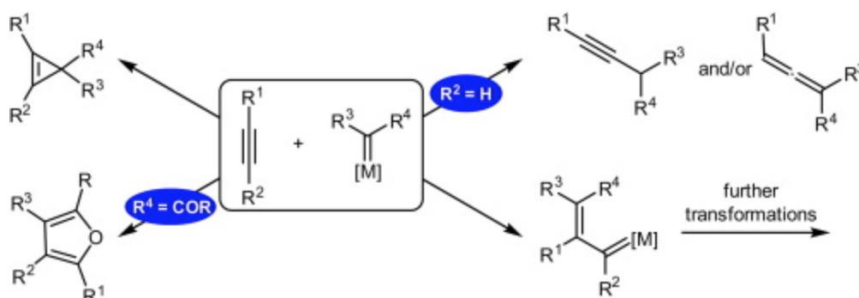
(Editorial: But the pink amoxicillin medicine tasted so good!)



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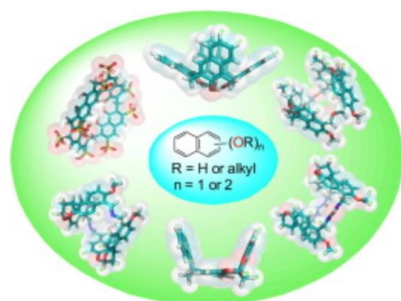
The rich reactivity of transition metal carbenes with alkynes



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Naphthol-based macrocyclic receptors

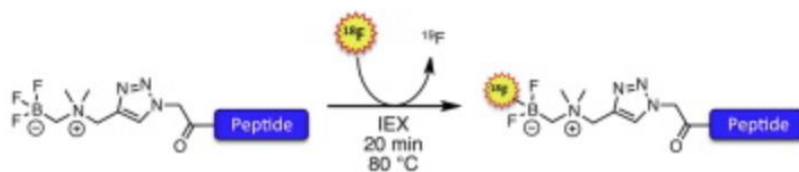


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Recent developments in radiolabelled peptides for PET imaging of cancer



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