

# YALE UNIVERSITY

## DEPARTMENT OF CHEMISTRY

### THE CHEMISTRY CHRONICLE

August 7, 2015

#### **ANNOUNCEMENTS**

For further information on any of the items included here, or if you would like to contribute information to the next bulletin, please contact [chemistry.adminoffices@yale.edu](mailto:chemistry.adminoffices@yale.edu) no later than Thursday, August 20<sup>th</sup> by 12:00 p.m.

Please join us in welcoming Clara (Clare) Garguilo to the Chemistry Staff. She joins us on Monday, August 10<sup>th</sup> as a Financial Assistant in the main office. Clare comes to us from The Yale Cancer Center where she supported Business Office Accountants and the sections of Hematology, Oncology including Palliative, Neuro-Oncology, MOH and OAB Care Centers. Clare has been with the University for almost 15 years and has as many years' experience in Yale's financial areas.

**YaleNews Research in the News:** Understanding the Firefly's Glow explains how fireflies get their glow... superoxide anion. Gary Brudvig and his postdoc, David Vinyard, used electron paramagnetic resonance spectroscopy to confirm the formation of the superoxide anion involved in the glow process. The article can be found at:

[http://news.yale.edu/2015/08/03/research-news-understanding-firefly-s-glow?utm\\_source=YNemail&utm\\_medium=email&utm\\_campaign=yn-08-04-15](http://news.yale.edu/2015/08/03/research-news-understanding-firefly-s-glow?utm_source=YNemail&utm_medium=email&utm_campaign=yn-08-04-15)

**Workday - If you are asking yourself what is Workday? Please read this:** It's not just a self-serve application for viewing/changing our benefits, personal information and pay information. Please visit [Workday Basics for Faculty and Staff](#). It is the new Business Platform for the University. The Human Resources module is the first to go live. This module encompasses payroll, employee self-serve features for reviewing and changing our benefits, personal information and pay information, as well as managing all of the **ACADEMIC APPOINTMENT PROCESS** (new appointments, re-appointments, promotions, terminations and changes to appointments, VSR-Visiting Students in Research, Minors in the Lab). The go live date was July 1, 2015. Prior to that date all systems were off-line from June 17, 2015 and did not become available again until July 1, 2015. Please bear with the academic support staff as we transition to this new HR module in Workday.

Please keep in mind the following time frames for processing appointments:

#### **Academic appointments and visitors:**

International: At least three months' notice

Domestic: At least 2 months' notice

#### **Minor in the lab and VSR appointments:**

International: At least four months' notice

Domestic: At least 3 months' notice

These time frames are not due to Workday. They are calculated based on the multiple steps and approvals required to complete the appointment process which still currently exists.

#### **Visa Processing:**

The government has changed the signature requirement on the DS-2019. They now require an original PI signature on the document. Please note that staff cannot sign for you.

#### **Save the Date:**

• **Pasteur Foundation Gala.** Tuesday, September 29, 2015 in New York City. The Pasteur Foundation supports American scientific exchange through postdoctoral fellowships, undergraduate summer internships and related programs that

advance scientific discovery. The Foundation fosters international exchange through 3-year fully funded postdoctoral fellowships on the Institut Pasteur campus in Paris and on 33 international Network sites on 5 continents. For further information, contact [LHinden@rcspr.com](mailto:LHinden@rcspr.com) or 212-463-0684. [www.pasteurfoundation.org/](http://www.pasteurfoundation.org/)

- **Chemistry's annual Holiday Luncheon** will take place on December 23, 2015 in the SCL Historic Corridor first floor.
- **Yale West Campus Chemical Biology Fall Retreat.** Friday, October 9, 2015 at Yale West Campus Conference Center. Special guests: Dr. Alice Y. Ting (Ellen Swallow Richards Professor, Dept. of Chemistry, Massachusetts Institute of Technology) and Dr. Karen Carniol (Deputy Editor, Cell Press) Along with Yale faculty: Jonathan Ellman, Mark Lemmon, Chenxiang Lin, Michael Murell, Alanna Schepartz and Sarah Slavoff. Contact Paula Maher ([paula.maher@yale.edu](mailto:paula.maher@yale.edu)) for further information.
- **Chemistry's Visiting Days for Admitted Graduate Students.** Thursday, March 10<sup>th</sup> and Friday, 11<sup>th</sup>, 2016. Those offered admission to Chemistry's Ph.D. program are invited to visit Yale to learn more about the Department's science, students, and life in New Haven. For those unable to attend on March 10<sup>th</sup> and 11<sup>th</sup>, a secondary visiting day is planned for Friday, April 1, 2016.

**Science on Saturdays** hosted by Kurt Zilm – Fun science lectures for 'kids' of all ages will take place in SCL 110 from 10:00 a.m. to noon on three Saturdays this fall (September 26, October 17 and November 14).

<http://onhsa.yale.edu/science-saturdays>



**New Bulldog Mobile Safety App** - Yale Police recently upgraded the Bulldog Mobile App (BDM). Effective July 1, 2015, the Bulldog Mobile App will be powered by LiveSafe. This new app has some great safety features that we feel will benefit our campus community.

**HOW TO DOWNLOAD:** To download the Bulldog Mobile (LiveSafe) App, visit the Apple App Store (for iPhones) or Google Play Store (for Androids).

Search for and download "LiveSafe."

Register with your email and fill out your profile. Be sure to verify your email address.

Choose "Yale University" as your school. You're set!

**PERSONAL SECURITY DEVICE:** Bulldog Mobile powered by LiveSafe is a free personal mobile application for Yale students, staff and faculty to engage in a two-way conversation with the Yale police. With Bulldog Mobile, you can use your cell phone as a personal security device that allows direct access to police, 911 emergency services, emergency location sharing, information sharing with quick tips, and a peer-to-peer SafeWalk tool. Registration with a Yale email address is encouraged.

**WHAT IT FEATURES:** Summon Help - Trigger 911 or the Yale Police (203) 432-4400 with the press of a button (available on iPhone & Android devices only), along with critical profile information. Based on your cell phone signal and if your location services is enabled, a GPS locator is activated during your call.

**SafeWalk** - Peer-to-Peer Tool - Invite friends and family to temporarily follow your location on a real-time map. They will see your location as you walk to your destination and will know when you get there safely.

**Share information** - Quick Text Tip - Submit tips or reports about campus safety concerns and live chat with campus safety officials. You can attach a picture, video, or audio and even send it anonymously if you choose.

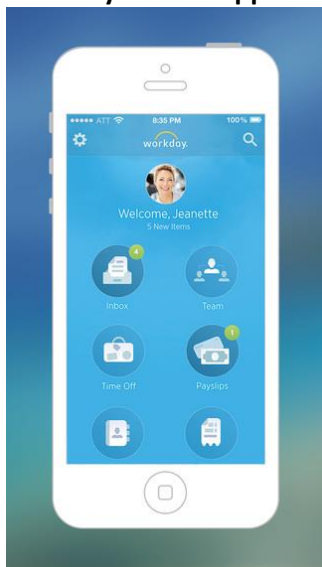
The two new residential colleges are looking more like buildings every day, as evidenced by the [daily webcam updates](#) taken from just across the street.

**International Students and Scholars:** Three months prior to your visa expiring, the Office of International Students and Scholars (OISS) will send you a notice. Please don't ignore this notice. Begin the conversation with the PI that you work for or who advises you on what you will be doing and communicate that to Maria Foley ([m.foley@yale.edu](mailto:m.foley@yale.edu)). Be sure to follow the instructions in the notice. Keep in mind that extensions or changes can take 1-3 months, so act immediately.

[Schrödinger's Summer Seminar Series 2015](http://www.schrodinger.com/seminarcenter/) is just around the corner! Join them online (<http://www.schrodinger.com/seminarcenter/>) where they will be discussing FEP+ for drug discovery applications, and highlighting some of the new features in Schrödinger's 2015 software releases. Seminars are free of charge and include a Q & A with the speakers.

**Yale University – Email Subscription Service** – If you would like to subscribe to a Yale Publication or to find out what publications are available, follow this link <https://messages.yale.edu/Subscribe/> Here you will find publications of interest to Faculty, Staff, Postdocs and Graduate Students.

#### **Workday Mobile App –**



Download “Workday” on your mobile device at the Apple Store. When asked for the tenant, type Yale. It is recommended to pick a 6-8 digit pin number.

## **SEMINARS**

[Chemistry Department Seminar Schedule](#)

### **MB&B Informal Seminar:**

**Friday, August 14.** Vanessa Mondol (Amy Pasquinelli lab), UC San Diego, “Post-Transcriptional Regulation of Micro RNA Biogenesis in *C. Elegans*”, 11:00 a.m., BCMM 206 (Boyer Center for Molecular Medicine), 291 Congress Ave.  
Host: Joan A. Steitz

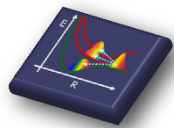
## **SYMPOSIA**

This year's **Yale Chemistry Symposium** will take place on **Friday, August 28th**. This symposium is held at the beginning of the academic year and is organized and managed entirely by the second-year class of graduate students in the Chemistry Department. The purpose of the symposium is three-fold: 1) to welcome the newest class of graduate students to Yale Chemistry; 2) to provide current graduate students with an opportunity to present their research in a more formal setting; 3) to build camaraderie between the members of the second-year graduate class before they enter a crucial year in their graduate studies.

**11<sup>th</sup> Annual Tri-Institutional Chemical Biology Symposium** – Wednesday, August 26 9:00 a.m. – 5:30 p.m., Memorial Sloan Kettering Cancer Center. Sponsored by the Tri-Institutional PhD Program in Chemical Biology (TPCB). Keynote Speakers: Catherine Drennan (MIT), Morgan Huse (Memorial Sloan Kettering Cancer Center), Sarah E. Reisman (Caltech) & Peter G. Schultz (Scripps Research Institute).

<http://chembio.triiprograms.org/publications-news/symposium-2015/>

Saturday, November 7, 2015



## John Tully Retirement Symposium

The Tully Retirement Symposium is scheduled to take place at Yale's Sterling Chemistry Laboratory on **Saturday, November 7, 2015**. A variety of individuals associated with John and his multifaceted scientific endeavors graciously have agreed to participate as keynote speakers for this day-long meeting:

- Professor Joel M. Bowman (Emory University)
- Professor Louis E. Brus (Columbia University)
- Professor Sharon Hammes-Schiffer (University of Illinois Urbana Champagne)
- Professor Martin P. Head-Gordon (University of California, Berkeley)
- Professor William H. Miller (University of California, Berkeley)
- Professor Krishnan Raghavachari (Indiana University)
- Professor John D. Weeks (University of Maryland)

### University Policies:

**IMPORTANT CHANGE IN POLICY FOR OUT OF POCKET REIMBURSEMENTS** - In collaboration with the Provost, as of July 1, 2015, the University has changed its practice regarding reimbursement of out-of-pocket expenses more than **120 days** from the date the expense was incurred. Current policy states that expenses older than 120 days will not be reimbursed. However, exceptions are requested and granted. Effective July 1, 2015 there will be **no exceptions**. These late requests will be treated as follows:

- A reimbursement submitted between 120 and 366 days after the expense is incurred may only be reimbursed as taxable income. Gross-up for taxes incurred will not be allowed.
- No reimbursement submitted more than 366 days after the date the expense is incurred will be eligible for reimbursement.

These changes are necessary in order for Yale to stay in compliance with IRS regulations regarding expense reimbursement. They also allow employees who submit their reimbursements late but within a year to be at least partially reimbursed.

Exempt from this policy are students, postdocs and non-employee reimbursements. These reimbursements will continue to be processed in the same way.

You do not need to travel to be reimbursed for pre-paid registration or travel tickets. They can be processed as soon as they are purchased with proof of purchase.

### SCHOLARSHIPS/FELLOWSHIPS

There are many generous sources of support both at Yale and beyond campus for graduate students to conduct their research and develop as professionals. From sponsoring the Dean's Fund to convene student-organized seminars and conferences to conducting the campus review process for the Fulbright program, the Graduate School promotes opportunities for students to fund their work at a variety of levels. In addition, the Graduate School has developed and identified a number of resources to communicate these opportunities to students. For further information, visit <http://gsas.yale.edu/funding-aid/fellowships/gsas-other-fellowships>

Fall Data Science Fellowship: **The Data Incubator** is an intensive 7-week fellowship that prepares masters, PhDs, and postdocs in STEM + social science fields seeking industry careers as data scientists. Further information can be found at: <https://www.thedataincubator.com/?ref=v646221>

**Paul & Daisy Soros Fellowships for New Americans** – This program honors the contributions of immigrants to the United States. Every year they invest in the graduate education of 30 New Americans – immigrants and the children of

immigrants – who are poised to make significant contributions to U.S. society, culture or their academic fields. Each new Fellow receives up to \$90,000 in financial support over two years, and they join a lifelong community of New American Fellows. Eligibility requirements can be found at: <http://pdsoros.org/> Applications are due on November 1, 2015.

## **POST-DOC OPPORTUNITIES**

Dr. Vince Carroll runs the med chem group of a small company called **Molecular NeuroImaging** (<http://www.mnimaging.com>), located in New Haven. They are currently expanding rapidly and have **two open positions for post-docs** in his group. Interested individuals should contact Dr. Carroll ([vcarroll@mnimaging.com](mailto:vcarroll@mnimaging.com)).

**Boston University** Department of Chemistry seeking candidates with a strong background in synthetic organic chemistry for a postdoctoral position that is currently available. Projects include the synthesis of macrocyclic libraries and bioactive natural product analogues. For postdoctoral positions, experience in multi-step synthesis and characterization of complex molecules is required. Candidates with experience integrating computational techniques with synthetic organic chemistry are also strongly encouraged to apply. If interested, send cover letter, resume, and three letters of recommendation to Lisa Holik by email at [bucmd@bu.edu](mailto:bucmd@bu.edu) or by mail at:

Lisa Holik  
Boston University College of Arts and Sciences  
Department of Chemistry  
Center for Molecular Discovery (BU-CMD)  
590 Commonwealth Avenue  
Boston, Massachusetts 02215

## **JOB OPPORTUNITIES**

The **Department of Chemistry at Gustavus Adolphus College** is currently undertaking a search for a **one-year Visiting Assistant Professor of Biochemistry and Organic Chemistry**. Responsibilities will include: 100-level organic chemistry lecture and associated laboratories, 200-level biochemistry laboratories, 100-level Principles of Chemistry laboratories, and a possible January Term course. Job announcement is below.

Review of applications began on July 2 and will continue until the position is filled. The position will begin September 1, 2015. Applications may be sent to [chem-search@gustavus.edu](mailto:chem-search@gustavus.edu).

**Sacred Heart University** in Fairfield, CT has an opening for a late-career graduate student or end-of-contract postdoc to teach an **entry-level graduate course on Chromatography** this fall. The course is offered once a week after 5:00 p.m. and the day of the week is flexible. If interested, contact Dr. Eid Alkhatib, Chair of the Department of Chemistry at SHU. His email is [alkhatibe@sacredheart.edu](mailto:alkhatibe@sacredheart.edu).

The **Department of Chemistry and Chemical Engineering at the University of New Haven** is hiring new **adjunct faculty for the Fall 2015 semester**. Positions are available during both the day and evening. The Chemistry program is particularly seeking individuals interested in teaching **General, Organic or Physical Chemistry** Laboratory courses. CVs should be sent to Nancy Savage, Chemistry Program Coordinator at [nsavage@newhaven.edu](mailto:nsavage@newhaven.edu).

**The University of Pennsylvania** has an opening for the faculty position detailed below. This is the second in a cluster of hires at the University of Pennsylvania focused on energy science. The hire can be made into one of three departments: Biology, Earth & Environmental Science, and Physics & Astronomy. Candidates should relate their research objectives to energy science, but energy is considered broadly and do not have any specific programmatic objectives. The position is a junior-level appointment but more senior hires can be considered. If interested, email Prof. Jay Kikkawa (Department of Physics and Astronomy, The University of Pennsylvania – [kikkawa@sas.upenn.edu](mailto:kikkawa@sas.upenn.edu)

### **Assistant Professor**

As part of a larger investment to create a new Center for Energy Research, the School of Arts and Sciences at the University of Pennsylvania seeks to add faculty to their newly formed Energy Cluster spanning the natural sciences. Following a first hire in Chemistry, we now invite applications for tenure-track assistant professor whose primary research and teaching affiliation will be in one of the following departments: Biology, Earth and Environmental Science, or Physics & Astronomy. Exceptional senior candidates will be given consideration. The successful candidate will mount an innovative program of fundamental scientific research with impact on our societal energy challenges, and in doing so

will forge collaborative links with Penn scientists and engineers involved in energy research. Applicants must apply online at <http://facultysearches.provost.upenn.edu/postings/590>. Required application materials include: curriculum vitae with a list of publications, and a research and teaching statement that includes the candidate's perspective on how she or he fits into one of the three departments and identifies potential collaborative links with other natural science departments. Applicants should also submit the names and contact information for three individuals who will provide letters of recommendation. Review of applications will begin no later than September 1st, 2015 and will continue as long as the position remains open. The School of Arts and Sciences is strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to establishing a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>). The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

**Industrial Interviews** to take place here in the Chemistry Department:

Monday, 8/10/15 – **Merck**  
Thursday, 8/13/15 – **Bristol-Myers Squibb**  
Friday, 8/21/15 – **Novartis**  
Tuesday, 9/1/15 - **Gilead Sciences, Inc.**  
Thursday, 9/3/15 – **Biogen**

**Incyte Corporation** will also be recruiting at Yale. Date hasn't been determined.

Drs. David Thaisrivongs and Jason Imbriglio will be interviewing for **Merck** at Yale on **Monday, August 10<sup>th</sup>**. There will be a short presentation at 9:00 a.m. in CRB 102 followed by a question and answer session. This is a general information session open to everyone in the department, not just those who are currently on the job market. If you're interested in the positions below, apply on-line at [www.merck.com/careers](http://www.merck.com/careers) using the **requisition numbers** below. Also, submit your CV and research summary directly to David Thaisrivongs ([david.thaisrivongs@merck.com](mailto:david.thaisrivongs@merck.com)) and Jason Imbriglio ([jason\\_imbriglio@merck.com](mailto:jason_imbriglio@merck.com)). The subject line of emails to Drs. Thaisrivongs and Imbriglio should read: 'Yale Recruiting – followed by your name'.

Discovery Chemistry (**CHE004381**, Senior Scientist) The Senior Scientist will be part of a project team and will work in a laboratory to:

- \* Improve the properties of lead drug candidates through the design and synthesis of new small molecules.
- \* Work closely with their colleagues in Biology, Pharmacology and Drug Metabolism, structure-activity relationships will be constructed and refined in a collaborative manner.
- \* Use strong laboratory skills to contribute to the discovery of drug candidates through development of structure-activity relationships and optimization of synthetic routes.
- \* Routinely communicate and present new ideas and research progress at project meetings.
- \* The result of this effort will be the identification of drug candidates for clinical development.

Process Chemistry (**CHE004372**, Senior Scientist) Merck is currently seeking exceptional chemists for positions within the Process Chemistry Department located at our Rahway, NJ site. A successful candidate will be joining a group of innovative scientists with broad deliverables ranging from the design of manufacturing routes for drug candidates to building on our state-of-the-art catalysis capabilities. A Ph.D. in chemistry with experience in methodology/catalysis (including chemocatalysis, biocatalysis and heterogeneous catalysis), total synthesis, physical organic chemistry, or flow chemistry is required, along with a proven track record of solving complex problems. Candidates must possess strong written and oral communication skills, and the ability to work effectively in a team environment.

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**Bristol-Myers Squibb** (<http://www.bms.com/pages/default.aspx>) will be here on **Thursday, August 13<sup>th</sup>**.

Interviewing for Ph.D. openings in both Discovery Medicinal Chemistry and Chemical Development. Seeking individuals with strong interest in working in these areas of the pharmaceutical industry to make a difference in the quality of patients' lives. Submit your CV and research summary to Makonen Belema ([Makonen.belema@bms.com](mailto:Makonen.belema@bms.com)) no later than Friday, August 7. The subject line of emails to Dr. Belema should read: 'Yale Recruiting – followed by your name'.

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Dr. Alec Flyer will be interviewing for **Novartis** at Yale on **Friday, August 21<sup>st</sup>**. If you are interested in the positions below, send your CV and research summary to [alec.flyer@novartis.com](mailto:alec.flyer@novartis.com). The subject line of emails to Dr. Flyer should read: 'Yale Recruiting – followed by your name'.

#### **Ph.D. Medicinal/Synthetic Organic Chemist:**

The central responsibility will be the proposal of molecular hypotheses and the design, provision and execution of experiments to test them, with the ultimate aim of generating new medicines. Integral to this will be the design, preparation, purification and characterization of novel molecular entities. The qualified individual must be proficient in relating compounds' structure to function, thinking about problems on the atomic and molecular level, and designing and preparing molecules to test hypotheses about compounds' action. The qualified individual is expected to contribute to pre-clinical research projects as a project team member. Additionally, the qualified individual will be expected to supervise the professional development and mentoring of junior- level scientific staff. The individual will collaborate / interact with a broad group of scientists within Novartis and with external collaborators. These scientists will include a variety of personnel in preclinical and clinical discovery, including biologists, medicinal chemists, pharmacologists, DMPK scientists and toxicologists.

Minimum requirements:

- \* Ph.D. in synthetic organic or medicinal chemistry
- \* Proven track record of innovative project contributions including peer- reviewed publications
- \* Ability to work independently and ability to interact with a multidisciplinary team of medicinal chemists, biologists, pharmacologists and external collaborators.
- \* Excellent oral / written communication and presentation skills

Flexibility to work in a dynamic environment

Location: Positions are available in Cambridge, MA, Emeryville, CA & Shanghai, China

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**Gilead Sciences, Inc.** (<http://www.gilead.com/>) is a research-based biopharmaceutical company with headquarters in Foster City, California. They will interview here at Yale on Tuesday, September 1<sup>st</sup>. Below are job descriptions for Process Chemistry and Medicinal Chemistry. CVs and research summaries should be emailed to Dr. Michael Ischay ([michael.ischay@gilead.com](mailto:michael.ischay@gilead.com)).

#### Research Scientist I Process Development, Req. #22725, Multiple Openings

Specific Skills - The successful candidate will design and execute reaction sequences and define processes to chemical intermediates and drug substances; perform chemical reactions, isolations, separations, purifications and crystallizations; conduct route scouting, reaction optimization, and scale-up demonstration; write concise procedures and reports to enable successful Technology Transfers. Participate in project teams and communicate results in a team-based environment.

The candidate must be skilled in the art and practice of modern synthetic and mechanistic organic chemistry. Familiarity and competence with modern spectroscopic methods applied to structure determination including <sup>1</sup>H and <sup>13</sup>C NMR, infra-red spectroscopy, and mass spectroscopy are required. Experience in the use of preparative silica gel chromatographic separations as well as analytical separations involving HPLC and GC is required. Practical experience in multi-step syntheses is preferred. Experience with spreadsheet programs such as Microsoft Excel and database software such as SciFinder is a plus. Knowledge and Requirements: Ph.D. in Organic Chemistry, Chemical Engineering, or related field.

Research Scientist I Medicinal Chemistry - As Research Scientist you will have the responsibility to design and execute the synthesis of novel molecules within a multi-disciplinary drug discovery team. The proposal of new molecular targets, application of scientific rigor, and application of creative solutions to challenging problems are essential skills. The successful candidate will have an excellent track record and a commitment to tackling drug discovery challenges through organic synthesis. Preference will be given to individuals with excellent leadership skills and a strong desire to succeed. Knowledge and Requirements: Ph.D. in Organic Chemistry with an emphasis on synthetic methodology or total synthesis; strong synthetic skills and a solid knowledge of modern organic synthesis techniques; strong written and oral communication skills; strong publication record.

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Dr. Robert Gilfillan from **Biogen** (<https://www.biogen.com/>) will be interviewing at Yale on Thursday, September 3<sup>rd</sup>. Biogen's Department of Chemistry and Molecular Therapeutics is seeking entry-level PhD chemists to join their Medicinal Chemistry group at their headquarters in Cambridge, Massachusetts. A world leader in biologics research, Biogen is expanding its capabilities in small molecule drug discovery and will be interviewing to fill positions starting in 2016. Please send your CV or resume and research summary to Dr. Robert Gilfillan ([rab.gilfillan@biogen.com](mailto:rab.gilfillan@biogen.com)).

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**Eli Lilly** has several openings for entry-level organic chemists in medicinal chemistry. Details are below. Although they won't be recruiting at Yale, they are collecting resumes, will then preselect candidates and conduct telephone or Skype interviews. Interested graduate students and postdocs should contact Craig Ruble directly by email at [ruble\\_craig@lilly.com](mailto:ruble_craig@lilly.com) and should provide a resume and research summary. Lilly is a global healthcare leader that unites caring with discovery to make life better for people around the world. learn more about Lilly at [www.lilly.com](http://www.lilly.com).

#### Research Scientist - Organic Chemistry - Discovery Research - Full Time

##### Roles and Responsibilities:

##### 1. Medicinal Chemistry

- o Analyze data in multiple dimensions
  - o Formulate and test medicinal chemistry hypotheses
  - o Design and execute synthetic routes to target compounds
  - o Prepare material for biological, toxicological and pre-clinical evaluations
  - o Work with external partners for purification, synthesis, and analysis
  - o Lead a research lab
  - o Work across functional groups
- ##### 2. Contribute to Lilly's Research and Development Effectiveness
- o Organize seminar series
  - o Encourage sharing different perspectives during technical discussions
  - o Generate new ideas or methods to resolve problems
  - o Reorganize or reinterpret existing data or information to develop new initiatives or different approach to problems
- ##### 3. Employee Management and Development
- o Mentor and coach direct reports
- ##### 4. Growth in Scientific Community
- o Participate in internal and external professional scientific activities.
  - o Build and maintain relationships with academic departments and research groups.
  - o Become a knowledge expert in selected areas
  - o Author scientific publications

##### Requirements:

. Ph. D. in Organic Chemistry or a related area completed by August, 2016  
Additional Skills/Preferences: . Demonstrated experience leading, managing, and/or mentoring in a lab environment . Demonstrated proficiency with oral and written communication . Experience working as part of a team . Examples of insightful, analytical, conceptual, and creative scientific problem solving . Demonstrated ability to organize, prioritize, and make decisions that drive projects . History of networking and building relationships

##### Location:

. Location - Indianapolis, IN with possible future opportunities in San Diego, CA