

# Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

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## SEPTEMBER 2008 NEWSLETTER TOPICS

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## Chair's Message

Dog Days of August – oftentimes the hottest part of the summer, although this year such has not been the case. I think that the last really hot weather that we had was the Fourth of July weekend. The summer is rushing past us, and it will be time for autumn activities before we know it.

Volunteers will be needed to help with the National Chemistry Week activities in October. Please contact Abby Kennedy ([akennedy@exelixis.com](mailto:akennedy@exelixis.com)) if you can spend some time helping. The schedule of events is posted in this newsletter.

Natalie McClure, Program Chair and Chair Elect, is planning the sched-

*continued on next page*

## October Dinner Meeting

### Chemistry of Dental Tissue Regeneration

Please join us on October 16 at Cañada College, Room 3-142 for the October Dinner Meeting with Dr. Stefan Habelitz. Dr. Habelitz is an Assistant Professor at UC San Francisco's Dental School. Knowing about the "Chemistry of Dental Tissue" should help everyone smile a little more. We hope to see you there. Please check our dinner meeting web site for a map to Cañada College, parking instructions and dinner cost. The complete URL for the dinner meeting page is [www.scvacs.org/Local\\_Folder/din\\_mtg.html](http://www.scvacs.org/Local_Folder/din_mtg.html).



#### Abstract:

In evolution, teeth were the first tissues that incorporated minerals for reinforcement and increased hardness; however, enamel, the surface of the tooth, and dentin, the underlying supporting and bone-like structure, pursued very different strategies in how to increase and optimize mechanical properties according to their function. While dentin maintains its protein matrix and incorporates apatite minerals into collagen fibrils, enamel mineralizes by a protein-guided crystallization process that is accompanied by protein hydrolysis and produces a final tissue that consists of 98% apatite mineral in form of crystals that are 50 nm wide but hundreds of micrometers long. Dental caries is a prevalent disease that affects over 90% of the population. During the caries process, bacteria dissolve

minerals and gradually remove organic matrix from the tooth leading to cavity formation. Efforts to rebuild the lost structures using remineralizing calcium phosphate solutions as well as protein-guided crystal growth have been initiated. This presentation

examines different methods that have been used to regain functionality of dentin and enamel applying minimal invasive dentistry and avoiding restorative techniques. The talk will focus on biomimetic approaches for enamel and dentin synthesis in-vitro and point out the relevance of the chemical conditions to obtain tissue functionality.

#### Biography:

Stefan Habelitz is an Assistant Professor at the Dental School at the University of California in San Francisco. He received a PhD in Chemistry from the University of Jena, Germany in 1998 and a master's degree in materials science from the University of Erlangen, Germany and the CSIC, Madrid, Spain. While his initial training has focused on crystallization in glasses and bioceramics, he has for the last ten years researched how organic molecules control crystal formation in tissues and is investigating the importance of protein-mineral interactions for functional biomechanics. He is a principal investigator and co-investigator on several NIH grants dedicated to dental tissue characterization, remineralization and in-vitro synthesis.

Chair's Message, continued from front page  
ule of speakers for next year. If you know of someone that you would like to suggest as a potential speaker for a monthly meeting, please contact Natalie (nmcclore@drugregulatoryaffairs.com) with the information.

Our regular monthly meetings will resume this month, with David Lustig of Optivia Biotechnology, speaking on The Role of Transporters in Drug Discovery: Developments for Improving Safety and Efficacy. Make your reservations for dinner on the website, [www.scvacs.org](http://www.scvacs.org); dinner and the talk will be at the Biltmore Hotel in Santa Clara.

See everyone at the monthly meeting, Mark Kent

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## September Dinner Meeting

**Date:** Thursday, September 18

**Time:** 6:00 Social Hour  
7:00 Dinner  
8:00 Presentation

**Location:** Biltmore Hotel & Suites  
2151 Laurelwood Blvd.  
Santa Clara, CA 95054

**Speaker:** Dr. David Lustig  
Optivia Biotechnology  
The Role of Transporters  
in Drug Discovery

**Cost:** \$27.00 with a choice of:  
Chicken Cannelloni  
Vegetarian Pasta Primavera

**Reservations:** [www.scvacs.org](http://www.scvacs.org)  
or Shirley Radding  
408-246-2564  
408-296-8625 Fax

Reservations should be made by September 15th stating your name, address, company affiliation, number of people in party, and menu selection. If you are unable to honor your reservation and do not cancel by Tuesday, September 16th, you will be invoiced following the dinner meeting.

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Reminder

September Dinner Meeting

Reminder

## The Role of Transporters in Drug Discovery: Developments for Improving Safety and Efficacy

Please join us on September 18 at the Biltmore Hotel for the September dinner meeting. We will start the school year with an interesting talk on the biologic mechanisms that cells use to acquire resistance to drugs. With an understanding of these mechanisms, drugs can be intelligently designed to overcome safety concerns and enhance efficacy. The school year is upon us again, and it's time to restart our meetings. So mark your calendars now and place your reservations for the meeting!

**Abstract:**

Since the 1976 discovery of the transmembrane P-glycoprotein efflux pump (P-gp) and the role it plays in acquired resistance to oncology drugs, much has been learned about active transporters. More than 350 human transporters have since been discovered including both efflux and uptake pumps. It is now known that transporters can mediate both drug safety and efficacy since they can be responsible for absorption, distribution, metabolism and elimination of substrates.

Transport activity has explained many clinical observations such as the unsafe adverse reactions experienced when co-administering digoxin with verapamil or quinidine. The FDA has recognized the importance of transporter based drug-drug interactions (DDI) and has included 25 major human transporters in the 2006 Draft Guidance "Drug Interaction Studies — Study Design, Data Analysis, and Implications for Dosing and Labeling".

This talk provides an overview of transporters and examines case studies in which transporters retrospectively explained the safety and efficacy of approved drugs.

Additionally, it presents drug



discovery strategies for the prospective use of transporters to design compounds with better bioavailability and targeted tissue distribution for safer, more efficacious therapies.

**Biography:**

David Lustig received his Ph.D. in analytical chemistry from the University of Michigan in 1991. His dissertation research focused on novel laser ionization mass spectrometric techniques for biomolecules. David has over 15 years of drug discovery and development experience in the pharmaceutical industry starting in the core mass spectrometry lab at Syntex and then moving into DMPK/ADME groups at Roche Bioscience and CV Therapeutics. David has served in roles including individual contributor, head of discovery bioanalysis, DMPK representative to drug discovery project teams, steering committee member for outside research collaborations and member of the Research Management Committee at CV Therapeutics (CVT) overseeing all preclinical discovery projects. At CVT, David moved into business development where he was responsible for in-licensing and out-licensing of cardiovascular drugs. David is currently a member of the senior management team at Optivia Biotechnology, a transporter technology company in Menlo Park, CA.



## Celebrate National Chemistry Week 2008!

National Chemistry Week 2008 is almost here! October 19-25th is designated as our special week this year and in celebration, we hope you will join us in "Having a Ball with Chemistry", our 2008 theme for NCW. The theme this year was specially chosen by the ACS to bring awareness to the Summer Olympic Games in Beijing, China. As well, it is a good opportunity for us to enhance the understanding of our friends, neighbors and community about the materials, design and safety of sports and sports equipment—all made possible through chemistry! We've got two great activities planned to help you celebrate National Chemistry Week 2008!

Our highlight for NCW this year will be a chance for you to literally "Have a Ball with Chemistry"...a BOWLING BALL, that is! Did you know that the surface of bowling balls is made up of unique combinations of isocyanates and polyols within a base of urethane resin? Yes, even bowling is made better through polymer science and surface chemistry! To demonstrate this special bowling chemistry, the SCV-ACS is hosting a bowling tournament for members and their families—of all ages! The tournament will begin on Saturday, October 4 at 10 a.m. at "300 San Jose" (5420 Thornwood Drive, San Jose; [www.300sanjose.com](http://www.300sanjose.com)). Cost is \$5 per bowler, payable that day by check or cash. This price includes bowling shoe rental, bowling for two

hours and refreshments! We've reserved their private back nine lanes for our tournament, and at 12 noon, after two hours of bowling fun, we'll declare winners in several age categories—and of course prizes will be awarded! Bumper bowling will be available for your little bowlers, and ACS members and their families of ALL ability levels are encouraged to join in the fun! Also, our free ACS newsletters "Celebrating Chemistry" for elementary school-aged kids and "ChemMatters" for high school students will be available for you to pick up that day!

Spaces are limited, so to reserve your tournament spot, please sign up online at [www.scvacs.org](http://www.scvacs.org). A limited number of walk-in tournament spots will be available that morning, so if you forget to sign up, come anyway and bring your best game! For questions, please contact National Chemistry Week Coordinator Abby Kennedy ([akennedy@exelixis.com](mailto:akennedy@exelixis.com)).

Also in celebration of NCW 2008, our fun annual public outreach booth will take place on Saturday, October 18th from 10 a.m. -1 p.m. at the MLK Jr. Library in downtown San Jose (150 E. San Fernando St., San Jose). Of course, the crowd-favorite Wheel of Chemistry Fortune will be spinning for all kids to win a prize, and we'll have fun hands-on activities for kids to explore chemistry and to celebrate NCW. This will also be your opportunity to pick up your free copy of

"Celebrating Chemistry", the NCW newsletter for elementary-aged children. For more information, please contact Abby Kennedy [akennedy@exelixis.com](mailto:akennedy@exelixis.com). Hope to see you there!



## Volunteer Industry Partners Needed

We are seeking to establish valuable industry alliances to assist us with the implementation of "Chemistry: A Pipeline to 21st Century Careers", a National Science Foundation-Division of Undergraduate Education Grant awarded to Cañada College in 2007. This is a multi-focused project geared to improve chemistry education in High Schools and Community Colleges throughout the Bay Area. The project's overarching goal is to stimulate the recruitment, retention and success of students in the chemistry career pipeline, particularly from underrepresented groups, to produce the technological workforce needed to fill the demands of our local industry. To reach this goal we are developing an Applied Associate in Science in Chemical Technology degree and a Chemistry Laboratory Technician Certificate. Volunteers will be asked to assist with: 1) identifying crucial curriculum topics and hands-on exercises to assure that graduates of these programs are well trained on industry relevant instrumentation and can perform a quality job, 2) expanding student access to career opportunities in chemistry and chemistry-related fields, 3) identifying potential internships and on-site training opportunities for students, and 4) building long lasting and beneficial alliances among the local industry, four-year colleges, high schools, government officials and Cañada College. For additional information contact Dr. Jeanette Medina, Project Director at (650)306-3255 or (650) 306-3304, by email at [Canada.NSFGGrant@smccd.edu](mailto:Canada.NSFGGrant@smccd.edu).

## Ballot Petitions Welcome

The ballot proposed by the Nominations and Elections Committee is now available on our web page, [www.scvacs.org](http://www.scvacs.org). Petition candidates may be added. To nominate a candidate, submit a nomination petition with legibly-printed names and the signatures of 15 or more members of the Section. Be sure to ascertain that your candidate is willing to serve if elected; our bylaws require this.

This fall we will be voting for a Chair Elect, a Treasurer, a Secretary, three Councilors who will serve 3-year terms from 2009-2011, three Alternate Councilors who will serve from 2009-2011, and one Alternate Councilor who will serve a 1-year term (2009 only).

Submit petitions, postmarked by Tuesday, September 30, to  
Karl Marhenke, Secretary, Santa Clara Valley Section, ACS  
Post Office Box 395, Palo Alto, CA 94302-0395

## Take an ACS Webcast Short Course This Fall

Few companies are immune from the economic hardships in the headlines and many budgets have been trimmed. But it is still crucial to your career to engage in continuing education to expand your skills and stay abreast of new topics. So save your time and money and take a look at the courses available online through ACS. A wide variety of webcast short courses are offered and the fall schedule is open for registration now.

ACS courses are well-respected throughout the industry. ACS Webcast Short Courses provide the same quality training that ACS has long been known for, but, because the courses are presented over the Internet, they offer added convenience and flexibility.

### Small Class Sizes and In-Depth

**Personal Attention** – The average class has 12 participants, and our instructors are available by e-mail in-between sessions so you will have all your questions answered.

**Interactive** – We've chosen a great technology that allows you to participate just as in a live class; you can even write on the whiteboard.

**Ready when you are** – Scheduled class sessions are the best way to get the most out of your experience. But if you miss a session, it's okay. All class sessions are recorded and ready for viewing when you're available.

**More Application Time** – Instead of getting all the information in a few days, you have time between sessions to apply what you've learned and come back to class with your burning questions. Overall, an extended learning schedule means more impact for you.

There are expanded course offerings in analytical, organic, pharmacology, engineering, instrumentation, and other areas. For the full list of Webcast Short Courses and more information on available discounts, visit [www.acs.org/webcourses](http://www.acs.org/webcourses).



## Register for ACS Careers Industry Forum

**SAVE THE DATE:** Thursday, September 11, 2008 from 2 to 3 pm EDT. (and the second Thursday of the following months).

The ACS Careers Industry Forum will be launched in order to disseminate timely information on cutting edge industrial issues affecting employment—allowing chemical scientists to make informed decisions about their careers. Conference Call Registration will open Thursday, August 7th at [www.acs.org/careers](http://www.acs.org/careers).

Take control of your career by staying informed. Check the above URL for further details on the Industry Forum as well as other newly developed programs and services. We look forward to serving you.

## Join the ACS Member Network

Want to connect with members in your local section? Join the ACS Member Network! The ACS Member Network is an online networking tool that facilitates more effective collaboration among ACS members and scientific professionals. You can:

- Build your own personal scientific network.
- Share research and publications information.
- Find friends and colleagues faster and easier than ever before!

It's safe. It's searchable. It's FREE. And it's a great way to stay connected with the best and brightest. Visit [www.acs.org/MemberNetwork](http://www.acs.org/MemberNetwork) to sign up today!

## 2008 Fall Webcast Schedule

**Effective Technical Writing** - September 8, 15, 29, October 6, and 20

**Essentials of Organic Chemistry** - September 8, 15, 29, October 6, and 20

**Fourier Transform Infrared Spectroscopy** - September 8, 10, and 12

**Infrared Spectral Interpretation, Basic** - September 8, 10, and 12

**Stimuli-Responsive Polymeric Films and Coatings** - September 9, 16, 23, 30, October 7, and 14

**Mass Spectroscopy Basics** - September 17, 24, October 1, 8, 15, 22, 29

**Essentials of Chemistry** - September 18, 25, October 2, 9, 16, 23, 30, and November 6

**From Beaker to Barrel: Chemical Engineering for Chemists** - September 19, 26, October 3, 10, and 17

**Infrared Spectral Interpretation, Intermediate** - September 22, and 23

**Modern HPLC in Pharmaceutical Analysis** - September 23, 30, October 7, 14, 21, and 28

**Gas Chromatography Basics** - September 26, October 3, 10, 17, 24, 31, and November 7

**HPLC Basics** - September 26, October 3, 10, 17, 24, 31, and November 7

**Infrared Spectral Interpretation, Special Topics** - October 6, and 7

**Principles of Analytical Chemistry** - October 8, 10, and 14

**A Pharmacology Primer for Chemists** - October 8, 15, 22, 29, November 5, and 12

**Pharmacokinetics and Pharmacodynamics for Chemists** - October 9, 16, 23, 30, November 6, and 13

**Effective Technical Writing for Scientists with English as a Second Language** - October 20, 27, November 3, 10, and 17

# Addressing Global Scientific Challenges through Chemistry

The "ACS Strategic Plan for 2008 and Beyond," which was released in January at [www.acs.org/strategicplan](http://www.acs.org/strategicplan), provides a blueprint for how we can work together to advance our vision of "Improving people's lives through the transforming power of chemistry" through the pursuit of six focused goals. A novel element of the strategic plan is goal 3, which declares our aspiration that "ACS will be a global leader in enlisting the world's scientific professionals to address, through chemistry, the challenges facing our world." It seems that every day there are news reports on the need for renewable energy resources, clean water, and sustainable food. Chemistry and chemists must play a central role in providing viable solutions to many of these challenges. In addition to the direct benefit to the global community, any activity the Society undertakes

to address these challenges can also strengthen efforts to communicate the nature and value of chemistry and to advocate for members and the profession, which reflect goals 4 and 5 of the strategic plan.

During May and June, members and stakeholders participated in a Web-based survey to gather perspectives on the most important challenges to address, activities that are already underway, and suggestions for new or expanded approaches. The resulting feedback paints a picture of shared enthusiasm behind addressing these challenges through chemistry. The feedback received from the survey has also provided the Society with clear direction; the emphasis will be on sustainability, for example, in the areas of sustainable energy, water, and food.

In June, ACS launched the Global Challenges/Chemistry Solutions web-

site to inform interested parties of the advances chemists are making related to world needs

<http://www.acs.org/globalchallenges>

. The site features biweekly podcasts, related facts, and information for anyone interested in the challenges or in understanding developing solutions. Through the inclusion of child-friendly educational resources, the Society is also reaching out to future generations. Each month, the site will focus on a new challenge, moving from water to climate to sustainability to security.

All ACS members have an integral part to play in addressing and identifying solutions to the challenges that lie before us. Ideas or suggestions are welcomed through e-mail at [strategicplan@acs.org](mailto:strategicplan@acs.org) or participation in the goal 3 discussion taking place online at [www.acs.org/strategicplan](http://www.acs.org/strategicplan).

## CHEMPLOYMENT ABSTRACTS SEPTEMBER 2008

### CHEMPLOYMENT ABSTRACT 3909

**Position Title:** Opportunities in Research and Development at Genentech!

**Job Description:** The following Research and Development opportunities, that have a focus on Small Molecules, exist in our South San Francisco, CA, headquarters:

- Scientist/Senior Scientist, Analytical Chemistry – Req. #1000021637
- Senior Scientists, Medicinal Chemistry – Req. #1000022028 and #1000023649
- Scientist, Medicinal Chemistry – Req. #1000023417
- Senior Scientist, Process Chemistry – Req. #1000022236
- Associate Director, Process Chemistry – Req. #1000023115
- Scientist/Senior Scientist, Formulation Chemistry – Req. #1000017275
- Research Associate/Senior Research Associate, Formulation Chemistry – Req. #1000023609
- Research Associate, Formulation Chemistry – Req. #1000023701
- Research Associates, Medicinal Chemistry – Req. #1000023607 and #1000024087

#### QUALIFICATIONS DESIRED:

To see the education and experience requirements for the above positions, go to <http://www.gene.com/gene/careers/>, click on "Job Postings"; then click on "Search for Jobs"; finally, enter the Req.# (e.g., 1000023701) in the "Keywords" space, and click the "Search" button.

#### LOCATION, SALARY, MAIL ADDRESS:

**Job Location:** South San Francisco, CA

**Salary:** DOE

**Employer Description:** For more than 30 years, Genentech has been at the forefront of the biotechnology industry, using human genetic information to develop novel medicines for serious and life-threatening diseases. Today, Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions. Please take this opportunity to learn about Genentech, where we believe that our employees are our most important asset.

**Application Instructions:** Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To apply for one or more of these positions, follow the instructions listed above under "Qualifications desired". Please use "Web - ChemEmployment" when a source is requested. Genentech is an equal opportunity employer.

### CHEMPLOYMENT ABSTRACT 3910

**Position Title:** Senior Scientist – DMPK

**Job Description:** The Drug Metabolism and Pharmacokinetics (DMPK) department at Genentech is seeking a highly motivated individual with proven abilities who will be involved in the design, execution, supervision and interpretation of non-clinical pharmacokinetic studies. These studies will enable the selection of small molecule drug development candidates and provide assessment of their pharmacokinetic/ADME characteristics to support drug development. This position will be involved in report writing for IND and NDA filings.

#### QUALIFICATIONS DESIRED:

**Education:** The candidate must have a Ph.D. in Pharmacokinetics, Drug Metabolism or other relevant field, and in-depth knowledge of parameters governing ADME.

**Experience:** Familiarity with various pharmacokinetic software packages, such as WinNonLin, ADAPT, SAAMI and NONMEM is required. This position will require significant knowledge of PK/PD modeling to facilitate prediction of the exposure required in humans.

#### LOCATION, SALARY, MAIL ADDRESS:

**Job Location:** South San Francisco, CA

**Salary:** DOE

**Employer Description:** Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions. Please take this opportunity to learn about Genentech, where we believe that our employees are our most important asset.

**Application Instructions:** Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: <http://careers.gene.com> and reference Req. #1000020053. Please use "Web - ChemEmployment" when a "source" is requested. Genentech is an Equal Opportunity Employer.

**CHEMPLOYMENT ABSTRACT 3911**

*Position Title:* Senior Research Associate – DMPK

*Job Description:* The department of Drug Metabolism and Pharmacokinetics (DMPK) at Genentech is seeking a highly motivated individual to support pharmacokinetic and drug disposition studies enabling the discovery and development of small molecule drugs. The qualified candidate will conduct in vitro permeability and transport studies in support of Discovery and Development projects, as well as develop assays to investigate expression and functions of drug transporters.

**QUALIFICATIONS DESIRED:**

*Education:* A Bachelor's or Master's degree in Biology, Chemistry or other relevant fields with a minimum of two years of experience is required.

*Experience:* Excellent organization skills, strong verbal and written communication skills and flexibility are essential. Extensive experience in cell/tissue culture and molecular biology techniques is highly desirable. An understanding of pharmacokinetic concepts is a plus.

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* South San Francisco, CA

*Salary:* DOE

*Employer Description:* Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions. Please take this opportunity to learn about Genentech, where we believe that our employees are our most important asset.

*Application Instructions:* Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: <http://www.gene.com/careers> and reference Req. #1000020035. Please use "Web – ChemEmployment" when a "source" is requested. Genentech is an Equal Opportunity Employer.

**CHEMPLOYMENT ABSTRACT 3912**

*Position Title:* Research Associates - Medicinal Chemistry

*Job Description:* We are seeking Research Associates (five positions available) in the medicinal chemistry department who will be responsible for the design and synthesis of biologically active small molecules. Qualified individuals will participate in our drug discovery efforts as part of a multi-disciplinary project team.

**QUALIFICATIONS DESIRED:**

*Education:* A Bachelor's or Master's degree in Chemistry and a minimum of two years of experience in synthetic organic chemistry is required.

*Experience:* Demonstrated expertise in multi-step synthesis, compound purification and structural characterization is preferred.

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* South San Francisco, CA

*Salary:* DOE

*Employer Description:* Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions.

*Application Instructions:* Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: [careers.gene.com](http://careers.gene.com) and reference Req. # 1000024087. Please use "Web – ChemEmployment" when a "source" is requested. Genentech is an Equal Opportunity Employer.

**CHEMPLOYMENT ABSTRACT 3913**

*Position Title:* Senior Research Associate - Small Molecule Process Chemistry

*Job Description:* Genentech is seeking a highly motivated Process Research and Development Chemist for Genentech's newly formed Chemical Research and Development Department. He/she will conduct research in a team environment, developing and implementing innovative, scalable chemistry to advance Genentech's early leads into the clinic.

**QUALIFICATIONS DESIRED:**

*Education:* A Bachelor's or Master's degree in Chemistry, with a minimum of two-years of process research and scale up experience is required.

*Experience:* Candidates must have excellent interpersonal and communication skills.

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* South San Francisco, CA

*Salary:* DOE

*Employer Description:* Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions.

*Application Instructions:* Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: [careers.gene.com](http://careers.gene.com) and reference Req. #1000024073. Please use "Web – ChemEmployment" when a "source" is requested. Genentech is an Equal Opportunity Employer.

**CHEMPLOYMENT ABSTRACT 3914**

*Position Title:* Scientist - Medicinal Chemistry

*Job Description:* We have an exciting opportunity for a Ph.D. level synthetic organic chemist to participate in our innovative program in drug discovery and development. The individual will play a significant role in the expansion of our efforts into new medicinal chemistry projects. The position requires an individual with broad scientific expertise, able to address project biology and develop novel synthetic strategies.

**QUALIFICATIONS DESIRED:**

*Education:* A Ph.D. in Organic Chemistry with at least three years of academic/industrial experience and a strong record of achievement are required.

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* South San Francisco, CA

*Salary:* DOE

*Employer Description:* Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions.

*Application Instructions:* Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: [careers.gene.com](http://careers.gene.com) and reference Req. #1000024086. Please use "Web – ChemEmployment" when a "source" is requested. Genentech is an Equal Opportunity Employer.

**CHEMPLOYMENT ABSTRACT 3915**

*Position Title:* Scientist - Small Molecule Analytical Chemistry

*Job Description:* We seek outstanding 2 candidates to join Analytical Development efforts in Small Molecule Pharmaceutical Sciences. Responsibilities include characterization of small molecule candidates, isolation of degradants and determination of degradation pathways, impurity identification, development and optimization of analytical methods for starting materials, intermediates, drug substance and drug product. Responsibilities also include identifying critical parameters and quality attributes.

**QUALIFICATIONS DESIRED:**

*Education:* A Ph.D. in a relevant scientific discipline and a minimum of three years of experience in the pharmaceutical industry is required.

*Experience:* Candidates must have deep knowledge of chromatography, practical experience with core analytical methods, solid scientific knowledge of Pharmaceutical Sciences and a good understanding of the drug development process. Experience with advanced mass spectrometry techniques, impurity isolation/identification and degradation pathway determination is preferred.

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* South San Francisco, CA

*Salary:* DOE

*Employer Description:* Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions.

*Application Instructions:* Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: [careers.gene.com](http://careers.gene.com) and reference Req. #1000024102 or Req.# 1000024024. Please use "Web - ChemPloyment" when a "source" is requested. Genentech is an Equal Opportunity Employer.

**CHEMPLOYMENT ABSTRACT 3916**

*Position Title:* Research Associate - Small Molecule Analytical Chemistry

*Job Description:* We seek outstanding candidates to join Analytical Development efforts in Small Molecule Pharmaceutical Sciences. Responsibilities include characterization of small molecule candidates, method development and qualification and supporting process scale-up and formulation development. The successful candidate will develop chiral and achiral HPLC methods, conduct assays, document studies in notebooks, summarize and interpret the data, troubleshoot instrument and method problems, present findings at team meetings and contribute to IND/NDA filings.

**QUALIFICATIONS DESIRED:**

*Education:* A Bachelor's or Master's degree in a relevant scientific discipline (Analytical Chemistry preferred) and a minimum of 2-6 years of experience in the pharmaceutical industry are required.

*Experience:* Candidates must have good theoretical knowledge of analytical chemistry, hands on practical experience on chromatography (HPLC, GC, data handling) and other analytical techniques (MS). Knowledge of current FDA regulations/guidance and strong background in organic chemistry, pharmaceuticals or drug discovery are desirable.

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* South San Francisco, CA

*Salary:* DOE

*Employer Description:* Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions.

*Application Instructions:* Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: [careers.gene.com](http://careers.gene.com) and reference Req. #1000024025. Please use "Web - ChemPloyment" when a "source" is requested. Genentech is an Equal Opportunity Employer.

**CHEMPLOYMENT ABSTRACT 3917**

*Position Title:* Analytical Chemists

*Job Description:* We are current looking for 3 energetic and talented analytical chemists to join our Analytical Research and Development teams. The group is well equipped with advanced analytical instrumentation and techniques, such as LC/MS, LC/MS/MS, GC/MS and NMR, as well as state-of-the-art data processing and management systems. These are newly opened positions.

**QUALIFICATIONS DESIRED:**

*Education:* PhD, preferred

*Experience:* 3-20 years of related experience

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* Santa Clara, CA

*Salary:* negotiable

*Employer Description:* Xenoport is a biopharmaceutical company in Santa Clara, CA. We are focused on developing a portfolio of internally discovered product candidates for the potential treatment of central nervous system (CNS) disorders.

*Application Instructions:* For consideration, please send your Resume/CV and cover letter indicating job title in the subject line to [jobs@xenoport.com](mailto:jobs@xenoport.com). Website: [www.xenoport.com](http://www.xenoport.com)

**CHEMPLOYMENT ABSTRACT 3918**

*Position Title:* Assistant Professor of Biochemistry (tenure-track)

*Job Description:* Teaching a total of five quarter-long courses in the first year, six quarter-long courses thereafter, and initiating and sustaining a vigorous, independent, and productive undergraduate research program. The courses may include lecture and laboratory sections in biochemistry, general chemistry, and chemistry for non-science majors.

**QUALIFICATIONS DESIRED:**

*Education:* A Ph.D. and postdoctoral experience in Biochemistry or closely allied field

*Experience:* College teaching experience is highly desirable. Experience in teaching a diverse student population is preferred.

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* Santa Clara, CA

*Salary:* Competitive, depending upon experience.

*Employer Description:* Santa Clara University, a highly ranked Catholic Jesuit institution in the Silicon Valley with an ACS-approved undergraduate program and a housing program, is an EO/AA employer committed to excellence through diversity, and welcomes applications from women, persons of color, and members of historically underrepresented groups.

*Application Instructions:* By 10/17/08, submit cover letter, curriculum vitae, copies of undergraduate and graduate transcripts, three letters of recommendation, personal statement(s) covering research plans, teaching philosophy, representative example of scholarship, e.g., in-press or published article, and sample syllabi and teaching evaluations for any lecture course(s) taught to Prof. Linda Brunauer, Biochemistry Search Committee, Department of Chemistry, Santa Clara University, 500 El Camino Real, Santa Clara, CA 95053. For additional information, visit [www.scu.edu/hr/careers/faculty.cfm](http://www.scu.edu/hr/careers/faculty.cfm)



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## FUTURE MEETINGS

- Sep 18** SCV Dinner Meeting  
The Role of Transporters in Drug  
Discovery, Dr. David Lustig  
Santa Clara, CA
- Sep 23-27** Western Regional Meeting  
Las Vegas, NV  
<http://membership.acs.org/w/WRM2008>
- Oct 4** Having a Ball with Chemistry  
(NCW event)  
San Jose, CA
- Oct 16** Chemistry of Dental Tissue  
Regeneration  
Dr. Stephen Habelitz, UCSF  
Cañada College, Redwood City, CA
- Oct 18** NCW Outreach  
San Jose Public Library
- Oct 19-21** Topics and Tactics in Current  
Drug Design  
ACS ProSpectives Conference  
Cambridge, MA
- Oct 25** Teachers' Workshop  
Roche, Palo Alto, CA
- Nov 20** Maximizing Knowledge  
Dr. Terry Oldberg  
Location TBA