

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

Oct. 2005
Vol. 43, No. 2

Meeting Calendar

Oct. 14	Oesper Banquet at University of Cincinnati
Dec. 7	Elsa Reichmanis at Xavier University
Jan. 18	Bill Dean at Netherland Plaza Hotel
Feb. 15	Chemist of the Year location TBA
Mar. 15	Bill Jensen at Golden Lamb Inn Joint with Dayton Section
Apr. 19	High School Awards at Northern Kentucky U.
May	Party Night TBA

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The 2005 Oesper Banquet and October Monthly Meeting

Friday, Oct 14, 2005

cosponsored by the
Department of Chemistry, University of Cincinnati

honoring

V. Adrian Parsegian
National Institutes of Health

with featured after-dinner speaker

Peter Rand
Professor Emeritus Biological Sciences
Brock University
"Scientific Delights"
(see abstract on page 4)

About the Awardee

Working to strengthen the biology/physics interface, V. Adrian Parsegian is Chief of the Laboratory of Physical and Structural Biology at the National Institute of Child Health and Human
(Continued on page 4)

About the speaker

Peter Rand is a Canadian and Professor (emeritus) of Biological Sciences, Brock University. He is a Fellow of the Royal Society of Canada and co-author of fifty-one papers with Adrian Parsegian. He is also a developing wood sculptor.

THE CINTACS NEWSLETTER

Vol. 43, No. 2 October, 2005

Editor.....Bruce S. Ault
Advertising.....Ed Hunter

CINTACS is published eight times a year (September through May) by the Cincinnati Section of the American Chemical Society. The submission deadline will be approximately October 17 for the December, 2005 issue. Electronic submission is strongly preferred. All materials should be sent to:

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From the Chair

In order to ensure all members receive the CINTACS on time, the deadlines for submission of articles have to be quite early. Consequently, at the time I am writing this article I don't know how successful our first meeting of the year on September 18 will be in terms of participation. So, whether you have attended the first one or not, I am inviting you to attend the October meeting.

It is the Ralph & Helen Oesper Banquet & Poster Session on October 14, 2005 honoring V. Adrian Parsegian, Chief of the Laboratory of Physical and Structural Biology, National Institute of Child Health and Human Development with Peter Rand, Professor Emeritus from Brock University as the speaker. Dr. Parsegian joins the group of prominent scientists who have received the Oesper Award since 1981. This is the biggest meeting of the year held jointly with the Chemistry Department, University of Cincinnati. It is the Chemistry Department that does all the work necessary for the whole program that also includes a day-long symposium on October 15, 2005. The Section supports the Banquet & Poster Session through financial contribution and through participation of its members. Kim Carey and Nebojsa Pantelic from the Chemistry Department are doing double duty; Kim has been serving as the Section Coordinator for this event for some time and Nebojsa is serving as the Section Chair for the Poster Session for the second year. I would like to thank them for their contributions. This meeting is special for another reason, in addition to the greatest number of members attending, greatest numbers of undergraduate and graduate students also attend and/or participate. I am repeating what I had said in my first "from the Chair" article, **"Please do come to the meetings and every time ask a different person, colleague, co-worker, friend or student to come with you"**.

Over the years, our section has been nominated for/received numerous awards for our activities. For 2004, we were Chemluminary Awards finalists in four categories, three of them being National Chemistry Week Activities:

Committee on Community Activities -- Most Original Hands-on Activity or Chemical Demonstration, Outstanding Community Involvement in NCW, and Outstanding Industrial Involvement

Committee on Chemistry and Public Affairs -- ACS President's Award for Local Section Government Affairs.

Award recipients were just announced in the 230th National ACS Meeting, we have received the "Outstanding Industrial Involvement Award". Congratulations and thanks go to Victor Arredondo, NCW/ED Committee Chair and all the volunteers who have participated.

I am also repeating my National Chemistry Week message "We need volunteers too, to participate in National Chemistry Week activities in the Fall. This year, the NCW is earlier than usual, October 16-22, 2005 and the theme is "Joys of Toys," please contact Victor to volunteer (arredondo.vm@pg.com)".

Emel Yakali

The October Monthly Meeting The 2005 Ralph and Helen Oesper Banquet and Poster Session

honoring

V. Adrian Parsegian
National Institutes of Health

Friday, October 14, 2005

University of Cincinnati Faculty Club

(see page 5 for Oesper Symposium Program on Saturday, Oct. 15)

Program

5:30-6:50 p.m. Poster Session/Social Hour NOTE: You do NOT have to attend the banquet to participate in the poster session. The poster session is open to anyone who wishes to participate; however, space is limited. Please register your poster early.

7:15 - 9:30 Oesper Award Banquet (dinner includes your choice of 1) Grilled marinated portobello mushrooms with pesto angel hair primavera. 2) Chicken roulades with boursin or 3) Roast pork loin with Jardiniere sauce. \$26 (1/2 price for emeritus, students, unemployed and new members)

Presentation of the 2005 Oesper Award to Dr. V. Adrian Parsegian

After-dinner speaker, Peter Rand
"Scientific Delights"

Dinner Reservations: A meeting reservation form is now online. This is the best and easiest way to register. As a lesser alternative, you may send your reservations by email to Kim.Carey@uc.edu. If absolutely impossible to make reservations via the internet, telephone 513-556-0293. Deadline for reservations is 12:00 noon on **Monday, October 10, 2005**. Include your name, affiliation, banquet dinner choice, and state if you're in one of the 1/2 price categories. As a reminder, if you decide you must miss a meeting after you have made reservations, please call to cancel. If you do not cancel, the Section will have to charge you because it will have been charged by the University.

Directions: If you approach **via I-75**, take the Hopple Street exit and turn left at the light. You will pass over the highway. At the next light, go "straight" (straight here is actually about a 45 degree turn to the left). You are now on Martin Luther King Drive. Continue up King to the 4th traffic light. You will reach the first one quickly, the second one about 1/2 mile after that, the third (Clifton Ave.) after going up a long hill, and the 4th as you continue eastward with the campus on your right. Turn right at this 4th traffic light onto campus, and then right into the parking garage.

If you approach Cincinnati coming **south on I-71**, get off at the Taft Street exit (exit 3). After the light at the end of the off-ramp, continue straight (west) on Taft for about 1.3 miles. At this time, Hughes High School is directly in front of you, and you must turn. Turn right onto Clifton Avenue. The University is now on your right side. Continue on Clifton to King; turn right (eastbound) on King and follow to the first light. Turn right onto campus, and then right into the library garage.

(Continued from page 1)

Development. The theme of his studies has been the theory and measurement of intermolecular forces in the context of biological macromolecules such as DNA, phospholipid membranes, proteins, and polysaccharides.



He received his Ph.D. in Biophysics in 1965 from Harvard University with a healthy dose of thermodynamics during 1962-1964 at the Weizmann Institute of Science with Aharon Katchalsky and Sheior Lifson. Following two post-doctoral years at MIT (1965-1967) with Irwin Oppenheim, he moved to the NIH, where he has dedicated himself to formulating and measuring the electrostatic, electrodynamic (van der Waals), solvation, and entropic forces that govern cellular organization and transport.

From 1977 to 1981 he was Editor of the Biophysical Journal and founding Editor (1978 - 1986) of the Biophysical Discussions. A former President of the Biophysical Society (1983-4), he received the Society's Distinguished Service Award in 1995. In addition to many scientific papers, he has recently written a book, Van der Waals Forces: A Handbook for Biologists, Chemists, Engineers, and Physicists, labeled by a friend "quantum electrodynamics for the people." This is the first of an intended series of texts to make the physics of intermolecular forces accessible to those without a background in advanced physics. He has begun a text that he wishes he could title "thermodynamics for busy people."

“Scientific Delights”

Professor Emeritus Peter Rand

Abstract

Productive collaborations, an interdisciplinary perspective, and extracurricular distractions can be thick icings on the scientific cake.



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**The Department of Chemistry
of the University of Cincinnati**

presents

**The 2005
Ralph and Helen Oesper Symposium**

honoring

V. Adrian Parsegian

NIH

Saturday, October 15, 2005

University of Cincinnati

400-B Tangeman University Center

9:00 – 9:15

Welcome and Introductory Remarks

Prof. Patrick A. Limbach, Acting Head, Dept. of Chemistry

Session Chair: Pearl Tsang, UC, College of Arts & Sciences, Dept. of Chemistry

9:20 - 10:20

William Gelbart, UCLA

“Making Viruses”

10:20 - 11:20

Sol M. Gruner, Cornell University

“Putting the Squeeze on Biology: Biomolecules under Pressure”

Lunch: \$15 (11:30 - 1:15)

Reservations are required: Please send an email to: Kim.Carey@uc.edu

Session Chair: Mark Rance, UC, College of Medicine, Dept. of Molecular Genetics, Biochemistry and Microbiology

1:15 - 2:15

Barry Ninham, Institute of Advanced Studies, Canberra, Australia

“The Present State of Molecular Forces in Colloid Science”

2:20 - 3:20

Joshua Zimmerberg, NIH

“Using Surface Chemistry to Understand Biological Processes: Adrian's Kind of Science”

Afternoon Break (3:20-3:30 p.m)

Introduction of Oesper Awardee: Prof. Tom Beck

3:35 - 4:45

V. Adrian Parsegian, NIH

“Nourished by Noise: The Organizing Power of Random Fluctuation”



EASTERN ANALYTICAL SYMPOSIUM

November 14-17, 2005 Somerset, New Jersey

Highlights of the 44th EAS include:

**Twenty-four one- and two-day short courses • Sixteen half-day exhibitor workshops
Four student seminars • Sixty-five oral and poster sessions on topics including:**

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Meeting Announcement

Innovation: The Engine for Growth

November 2-4, 2005, Cincinnati, OH

Join a select group of chemical industry leaders, from companies including Air Products, DuPont, Rohm and Haas, Praxair, Dow, Honeywell, and Arkema, as they discuss why innovation is a necessity and not a luxury. With your peers you will investigate the forms innovation can take and the metrics to measure it. Over the course of this meeting you will examine innovation success stories. You will discuss innovation inside and outside the organization, consider domestic and international possibilities, and weigh options that exist both upstream and downstream in the supply chain.

Conference chair

Louis Hegedus, Senior VP &&D, Arkema, Inc.

Conference registration includes complimentary attendance at the collocated AIChE Meeting. Visit www.aiche.org/conferences/management for more information.

Co-sponsored by AIChE and ACS.

Section Wins ChemLuminary Award

At the August National Meeting of the ACS in Washington, the Cincinnati Section won the 2005 ChemLuminary Award for Outstanding Industrial Involvement in National Chemistry Week. This is the second straight year we have won this award, presented by the Committee on Community Activities.

Industry plays a key role in the Section's NCW activities each year. Our NCW Chair, Victor Arredondo, is an industrial chemist, as were a large number of the volunteers who participated in the week's activities. Major funding from Procter & Gamble, Cognis Corporation, and Givaudan Flavors allowed us once again to participate in a week-long *News in Education* program, published in the *Cin-*

cinnati Enquirer and the *Cincinnati Post* newspapers.

In addition to winning this award, the Section was a finalist for the Committee on Community Activities' awards for Outstanding Community Involvement in NCW and Most Original Hands-on Activity or Chemical Demonstration, as well as the ACS President's Award for Local Section Government Affairs.

2005 Cincinnati Section Poster Session

The 2005 Oesper Banquet and Symposium will be held Oct. 14 and 15 at the University of Cincinnati. The Oesper awardee this year is Dr. V. Adrian Parsegian from the National Institutes of Health. The banquet Friday evening, Oct. 14, will feature a Student Poster Session before the dinner and presentation. All students in the Section, and beyond, are encouraged to submit posters for this event. The deadline for abstracts is **Friday, October 7, 2005**. Abstracts must include:

Title (in bold)

Author(s) & affiliation(s)

Font: Times New Roman 12 pt

Posters must fit on two 3'x 3' panels

Electronic submission is preferred (Word file).

Please send abstracts to Nebojsa Pantelic (panteln@email.uc.edu) who is in charge of the poster session. It is important to note that a limited amount of space is available.

NOTE: You do NOT have to attend the banquet to participate in the poster session. The poster session is open to anyone who wishes to participate; however, space is limited. Please register your poster early.

The symposium on Saturday, Oct. 15 will feature a number of outstanding scientists working in biophysical chemistry and related areas. Details on the symposium, as well as all Oesper events, can be found at: <http://www.che.uc.edu/oesper/>

Award Nominations Solicited

Cincinnati Chemist of the Year: The Section Awards Committee requests nominations for the 2005 Cincinnati Chemist of the Year. This award, given annually since 1950, recognizes professional accomplishments of a member. The 2005 Chemist of the Year will be the featured speaker at the February meeting. Deadline for nominations is December 7, 2005 (the date of the December meeting).

Cincinnati Research Assistant of the Year:

The Section Awards Committee requests nominations for the 2005 Cincinnati Research Assistant/Chemical Technician of the Year. This award, given annually, recognizes job skills, safety, teamwork, leadership, publications and presentations, reliability, communications skills, and additional professional and community activities. A Chemical Technician/Research Assistant is defined as a person whose training includes successful completion of a two year post-high school chemistry curriculum or equivalent work in a Baccalaureate program, or equivalent knowledge gained by experience. The 2005 award will be presented at the February meeting. The winner will be the section's candidate for the National award. Deadline for nominations is December 7, 2005 (the date of the December meeting).

Outstanding Teaching Awards: Do you know a teacher who inspires his/her students? Fills them with a curiosity about the world of science and chemistry? The Cincinnati Section of the American Chemical Society is looking for these people – and honors three each year.

- The *High School Chemistry Teacher of the Year* is awarded annually, to recognize accomplishments of those of us who teach chemistry at the secondary school level.
- The *Middle School/Junior High School Science Teacher of the Year* is awarded annually to honor science teaching at this level.
- The *Elementary School Science Teacher of the Year* is awarded for excellence in elementary teaching.

All three awards recognize teaching ability, enthusiasm, mentoring skills, and other leadership activities. Nominees need not be members of the

American Chemical Society. Generally speaking, anyone teaching in these capacities within 35 mile radius of downtown Cincinnati is eligible. These awards will be given at the April Meeting.

The deadline for teaching award nominations is January 18, 2006 (at the meeting).

For a nomination form contact:

Jim Hershberger Ph 513-529-2441
Department of Chemistry Fax 513-529-1675
Miami University Hershbjw@muohio.edu
Oxford, OH 45056

Chemical Information Update

Edlyn Simmons

Chair, Chemical Information Discussion Group

Beginning this month, the Chemical Information Discussion Group once again will be providing Cintacs readers with hints and updates on chemical information resources available to most chemists and techniques for using them. Contributions from any ACS member are welcome, and so are requests for information you'd like to see in a future column.

The newest entry in the National Institutes of Health's suite of free databases is PubChem, pubchem.ncbi.nlm.nih.gov/. As part of the Molecular Libraries Roadmap Initiative, the objective of PubChem is to provide information on the biological properties of small molecules. Biological property information is provided in the PubChem BioAssay database linked to a Substance database and a Compound database on the Entrez platform. In addition to compounds registered directly to PubChem, millions of molecules are deposited to PubChem from other registries, including the ZINC catalog from the University of California, San Francisco, and the Russian ASINEX screening library. Compounds can be found by searching chemical names or linearized structures in a number of different formats. Some of the compounds are linked to the PubChem BioAssay database as well as other Entrez databases, notably the PubMed Central scientific literature database. The distinction between Compounds and Substances may seem confusing to a chemist. It turns out that the PubChem Substance Database is a listing of chemical samples in the various sources.

(Continued on page 16)

PROJECT SEED

ACS Project SEED offers a unique opportunity for economically disadvantaged high school students to spend the summer conducting hands-on chemical research with scientists in a laboratory setting. For the third summer in a row, the Cincinnati Section of the ACS generously sponsored a Project SEED program. Five students spent eight weeks at the University of Cincinnati, doing chemical research.

- Cassandra Dees, Winton Woods High School, worked in the laboratory of Professor Pat Limbach on the surface chemistry of thermoplastics for microfluidic devices.
- Constance Dees, Winton Woods High School, worked in the laboratory of Professor Mike Baldwin on investigations of aerobic substrate oxidation by a novel Ni (II)-organic redox hybrid.
- Kyle Cavanaugh, Aiken High School, worked in the laboratory of Professor Anna Gudmundsdóttir on the preparation of novel photo-protecting groups.
- Curtis Carr, Jacobs High School, worked in the laboratory of Professor James Mack on the synthesis of corannulene and derivatives.
- Brittany Shepard, Purcell Marian High School, worked in the laboratory of Professor Suri Iyer on the synthesis of a globotriose trisaccharide.

All five students had very positive summer research experiences. One said, "it completely changed my outlook on college. I want to major in



Professor Suri Iyer and Brittany Shepard

chemistry." Another added, "I liked how I didn't know anything at the beginning, but by the end of the first week I was catching on. Overall, I loved it!" Another said she learned that "there is more to chemistry than just big words," and now she thinks she might want to become a chemistry teacher.



Kyle Cavanaugh (bottom) with graduate student Rajesh Murthy (top).

This year the program interfaced with the UC Department of Chemistry NSF-sponsored Research Experiences for Undergraduates (REU) Program, which provided for 11 undergraduate students from around the country to engage in chemistry research at UC. At biweekly meetings, the SEED students were exposed to a variety of profession development topics, including chemistry employment opportunities, resume preparation, interviewing skills, reading & writing scientific papers, and how to give a presentation. The special tour of Givaudan Flavors laboratories was a big favorite!

The Project SEED program would not have been possible without the efforts of local high school teachers to find suitable candidates. Special thanks go to Ann McGahan (Winton Woods), Dominic Lovaglio (Aiken), Marcy Yule (Jacobs), Vicki Boschert (Purcell Marian). If you are a chemistry teacher with a student who might be interested in participating in Project SEED next summer, or if you are a practicing chemist (academia, industry, or government) who would like to host a high school student in your lab, contact Bill Connick at bill.connick@uc.edu. To learn more about the program, visit: <http://www.che.uc.edu/kim/SEED/SEEDmain.htm>.

EDUCATIONAL GRANTS

The Cincinnati Section of the American Chemical Society has funds available for the purpose of improving chemical education in the geographic area served by the local section (OH: Adams, Brown, Butler, Clermont, Clinton, Hamilton, Highland and Warren counties; KY: Boone, Campbell, and Kenton counties; IN: Dearborn and Ohio counties). The Educational Grants Committee was established to make recommendations to the Cincinnati Section Board of Directors for the disbursement of these funds.

The committee hereby invites applications for these grants from all members (teachers, students, industrial chemists, etc.) of the chemical community in the service area of the section. Applications will be accepted and reviewed two times during the year according to the following schedule.

Review Month	Application Deadline	Notification Date
December	December 5, 2005	January 9, 2006
April	April 3, 2006	May 1, 2006

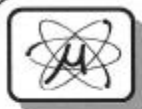
Grants will be awarded for such activities as attending educational workshops, participation in summer research programs, innovative education programs, instructional equipment, etc. Proposals, which incorporate the use of funds from other agencies or corporations, including the agency, or corporation, with which the applicant is affiliated, will be given preference in the selection process. Funds will generally not be awarded for the purchase of common supplies or chemicals. However, any application, which meets the basic criteria for which the fund was created, will be given serious consideration. Grants will be, in most cases, limited to \$1,500; exceptional proposals will be considered for larger amounts. No school or organization will be allowed to receive more than one (1) award per calendar year. Within one year from the time the grant is awarded, a report describing the used of the funds and the impact that the project had is expected to have on improving chemical education is to be forwarded to the committee chairperson.

For further information or an application, please contact:

Brian Berning	Phone: 513-272-5360
Seven Hills School	FAX: 513-271-2471
5400 Red Bank Road	E-mail: Brian.Berning@7hills.org
Cincinnati, Ohio 45227	

Also, see page 11 for an application form.

Visit the
Section's Home Page
<http://www.che.uc.edu/>



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The Cincinnati Section of The American Chemical Society
EDUCATIONAL GRANT APPLICATION

DATE: _____

Name: _____

Organization: _____

Department: _____

Address of Organization: _____

County: _____ State: _____ Zip Code: _____

Name and Title of Official Certifying Organizational Compliance with the Grant:

Signature _____

Name/Title (print or type) _____

ACS Member or Affiliate? _____

How many individuals will benefit from this grant if your proposal is funded? _____

Grant criteria: Funds are to be used to improve chemical education in the area served by the Cincinnati Section of the American Chemical Society.

Grant Proposal: The proposal should contain 300-500 words, double-spaced on official letterhead. It should describe the objective(s) of the project, how the project will be carried out, how the project would improve chemical education, how the program fits into the education program (if the applicant is from a school) and who would benefit. Also, the proposal should contain a detailed budget that outlines expenditures, the amount being requested from the Educational Grant and the amount being requested from other sources.

Send five (5) copies of the application and the proposal to:

Brian Berning
Seven Hills School
5400 Red Bank Road
Cincinnati, Ohio 45227

Phone: 513-272-5360
FAX: 513-271-2471
E-mail: Brian.Berning@7hills.org

Reports: Grant recipients are required to submit a report to the Committee within one year from the time of notification of the award. The report will include an outline of how the funds were used, what had been purchased, if anything, with the funds and what benefits have been derived thus far from the use of the funds.

Acknowledgment: It is requested that the major instruments purchased with the use of these funds be tagged with the following acknowledgment: "This equipment was purchased (in part) with an Educational Grant from the Cincinnati Section of the American Chemical Society."

2005-2006 Committee Chairs Cincinnati Section, ACS**Advertising**

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Elementary School Awards

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(Continued from page 8)

There can be many substance listings for a single compound.

Although PubChem is intended as a means to collect and disseminate biological property information, the database is being built by collecting the names and structures of chemical compounds, the vast majority of which have no associated biological property information and no associated journal articles. The result is a somewhat haphazard chemical dictionary created by harvesting compounds from other databases. The PubChem Compound database duplicates a part of the information in the Chemical Abstracts Registry database – compound names, formulae, and some calculated property data.

The Registry database is the crown jewel in the American Chemical Society's comprehensive indexing and abstracting service. Chemical Abstracts Service has been indexing as much as possible of the chemical literature (including biomedical literature that discusses chemical substances) for nearly 100 years, capturing the chemical structures and related data of each compound encountered in the publications. The combination of searchable chemical structures in the Registry database and abstracts and indexing of chemical patents and non-patent literature is the world's most valuable single source of information about chemical compounds;

revenues from the databases support the continuing indexing of new publications and contribute to the ACS budget.

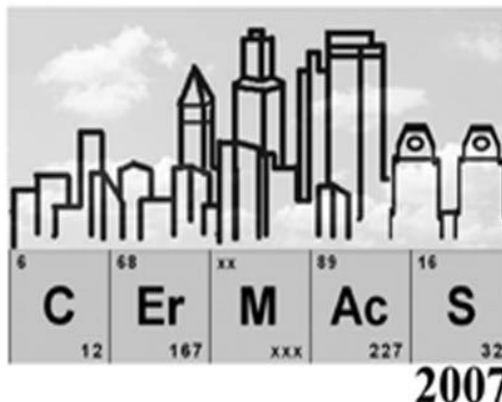
Why would NIH use government money to build a chemical registry for its bioassay data when a comprehensive chemical registry already exists? There are regulations that specifically direct government agencies to use existing commercial services instead of developing their own. The regulations were established to prevent the government from competing unfairly with private industry, and there is a danger that the lure of the free PubChem chemical dictionary will draw away enough Registry usage to endanger the future of Chemical Abstracts Service and ACS itself. ACS has been attempting to negotiate a modification of the PubChem project, but the conflict had not been resolved as of this writing. There have been a number of articles in the public and scientific press reporting on the conflict between ACS and NIH, many of which distort the situation. At the DC National Meeting, the Joint Board-Council Committee on CAS urged the society to communicate more about the situation to the membership. The latest communication, an open letter from ACS President Bill Carroll, was already on the ACS Internet site. The letter is at http://acswebcontent.acs.org/PDF/PubChem_open_letter2.pdf.

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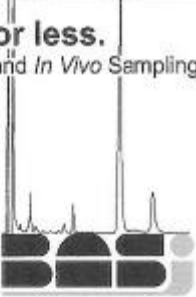
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