



IN VITRO AND ALTERNATIVE METHODS (IVAM) Specialty Section Newsletter

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August 2007

2007-2008 Executive Committee:

- *President:* Dan Kemp
- *VP:* Frank Barile
- *VP-Elect:* David Allen
- *Secretary/Treasurer:* Sue Ford
- *Councilors:* Renee Gardner and Vincent Murphy
- *Past-President:* George DeGeorge
- *Student Rep:* Prajakta Pal-
kar
- *Vice-Student Rep:* Ying Fan
- *Post-Doc/Fellow Rep:* Sonia
Miranda

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IVAM SPECIALTY SECTION

To our new members and past members:

The *In Vitro* Specialty Section (IVSS) was founded in 1994 by members with expertise in the application of *in vitro* techniques to address problems of cellular toxicity, with a special emphasis on product safety evaluation.

Now 13 years later the IVSS has undergone a name change to the "In Vitro and Alternative Methods (IVAM) Specialty Section," with a focus on basic cellular processes involved in the induction of adverse outcomes, of specific

organs and the whole animal, and the development of simple to complex cellular and subcellular systems that will help predict toxicity *in vivo* and offer a high throughput method of problem solving/risk assessment.

Since the original incarnation of this specialty section we have added executive committee offices including the: Student Representative, Vice-Student Representative, and Post-Doctoral/Fellow Representative. We have also become more tech savvy with the creation and maintenance of the IVAM website. One of the main

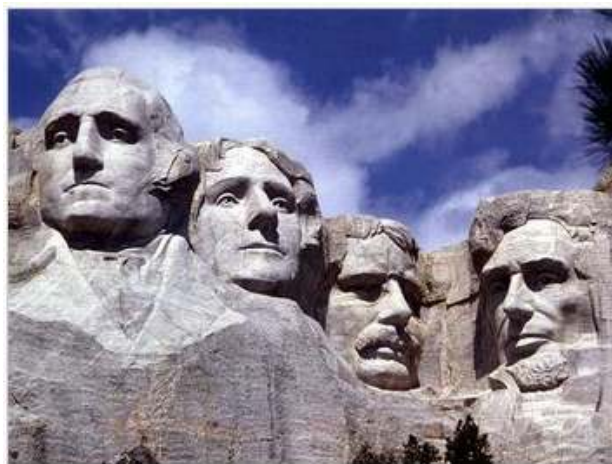
goals of this specialty section is to provide a forum for scientists involved with all aspects of toxicology to be able to gather and communicate ideas to *Reduce, Refine, or Replace* animal models in toxicology, while recognizing that animal research is a fundamental part of our discipline.

Having said that we are creating a "Comments Forum" for members to discuss any issues, concerns, or offer encouragement to your executive committee. We look forward to serving you during the 2007-2008 sessions.

Developing Tomorrows Leaders

Students are a significant portion of the Society of Toxicology (there are as many student members as there are associate members), but a relatively untapped population. Many student members do not realize that their membership entitles them to a specialty section membership at no additional cost. Student members are needed to expand IVAM membership and exposure, while developing into the leaders of tomorrow.

We task our membership to invite and encourage students to join the IVAM and participate in the IVAM Student Awards and the MB research award. This will help them form a lasting bond with the specialty section and the members.





Paracelsus 1493-1541

**“All things are
poisons and
nothing is
without poison,
only the dose
permits
something not
to be
poisonous.”**



A MESSAGE FROM THE PRESIDENT

These are exciting and challenging times for both the In Vitro and Alternative Methods (IVAM) Specialty Section and our members. Our specialty section is confronted with the challenges of growth into our new designation as the IVAM section as well as dealing with the increasing pressures to quickly translate research findings into practical models for screening, to treatment or prevention of diseases. Technological advances have allowed rapid growth of *in vitro* models and alternative methods to animal testing. While some of these methods have had immediate impact in government, pharmaceuticals, and environmental arena's others have yet to hit there stride. The goal of the IVAM section is to provide a platform for discussion of these models and more importantly a platform for scientist to network and brainstorm about their models.

I am fortunate to follow in a long line of accomplished officers from the IVAM

section. I have benefited greatly through my interactions with the former Presidents George DeGeorge, Sidney Green, and Julio Davila. I am also very fortunate to have worked with the previous officers Mark Blazka, Robert Dunn, and Peter Harvison. I am grateful for their leadership and knowledge. The current officers Frank Barile, David Allen, Sue Ford, Renee Gardner, Vincent Murphy, Prajakta Palkar, Ying Fan, and Sonia Miranda are an exceptional and enthusiastic team. I have and will continue to rely on them heavily for advice and counsel through both email and numerous conference calls.

This year the focus will be on making the IVAM specialty section a true representation of its membership. With the most important goal of creating an annual meeting that is exciting, fun, and entices our members to attend. We are already working on ways to improve on the annual meeting held next year in Seattle, Washington. Some of the sug-

gestions have been to have the meeting over a lunch break, create a post-doc award that is separate from the student awards, bring back the door prizes, etc.

We had relatively few proposal submissions for last year's Charlotte, NC meeting, but we are looking forward to sponsoring more proposals at the Seattle meeting.

The future of this specialty section can be bright and promising if we re-engage our membership. IVAM members can help by serving on committees, participating in reviews or actively suggesting ways to improve the annual meeting. The success of this specialty section is directly linked to its membership.

Regards,
Daniel Kemp, PhD
IVAM President

CALL FOR NOMINATIONAS OF EXECUTIVE COMMITTEE OFFICERS

Nominations for new Executive Committee Officers are now being accepted. Please consider supporting your IVAM Specialty Section by nominating an individual whom you think may be able to serve our needs and goals as an officer of the In Vitro and Alternative Methods Specialty Section. Self Nominations may also be sent. Nominations will be collected until 01 December 2007, and a ballot will be sent to all IVAM members (by 30 Jan 2008). New officers will be sworn in and take office May 2008. All elected officers will be invited to attend the Executive Committee meeting at the 2008 National Society of Toxicology meeting in March. This will allow new officers to meet and greet current and past officers. Please send your nominations to sotivam@gmail.com.



2007 IVAM SPECIALTY SECTION STUDENT AWARDS

Every year the IVAM recognizes outstanding student scientists for their work in *In Vitro* and Alternative Methods Toxicology. The interests of the specialty section include studies of basic mechanism of cell injury for target organ systems and development of *in vitro* test systems for predictive toxicology assessments. Validation of *in vitro* test systems and acceptance of these approaches for processes are also a major goal. In addition, another IVAM goal is to encourage the use of science-based *in vitro* toxicology test systems as rapid, cost-effective alternatives to animal research. The winners of the 2007 awards are:

1st Place (\$500) – Renee Gardner, “Very Low Dose Mercury Modulates Cytokine Secretion by Human Peripheral Blood Mononuclear Cells *In Vitro* Without Changing Cell Populations”

2nd Place (\$300) – Mary Hasani, “NAD(P)H:quinone oxidoreductase 1 (NQO1)-mediated induction of oxidative stress and DNA damage by lavendamycin antitumor agents”

3rd Place (\$200) – Brianna Peterson, “Differential effects of Ca²⁺-independent phospholipase A₂ inhibition on oxidant-induced cell death in primary neocortical cells”

Honorable Mention and winners of the Informa Health Care gift certificates:

Jillian Rouse, “Effects of Mechanical Flexion on the Penetration of Amino Acid-Derivatized Nanoparticles in Skin”

Heekyon Bae, “Binding of the Macrocyclic Trichothecene Satratoxin G to Ribosomes in Raw 264.7 Macrophages and PC-12 Neuronal Cells.

Carolina Lema, “Gene Expression Profiling of Human Bronchial Epithelial Cells Exposed to Single-Walled Carbon Nanotubes.”

The IVAM had approximately 18 abstracts submitted for the 2007 student awards. We would like to thank all the students that participated in this wonderful opportunity. Applications will be accepted 01 November 2007 –01 January 2008. The deadline for submission to the 2008 Student Awards is **01 January 2008**.

One major change to the 2008 Student Awards is that students **MUST BE PRESENT** to win. If the student is unable to attend the award will be forfeit.

For more rules on applying for the student awards please go to:
<http://www.toxicology.org/ISO>



And the Winners are...

“Students Must Be Present to Win the 2008 IVAM Student Award”

MB RESEARCH BEST POSTER: DISTINCTION IN PRACTICAL IN VITRO AND ALTERNATIVE METHODS TOXICOLOGY

This MB Research award is a new award for the IVAM Specialty Section. This award will be open to Post-Doctoral and Fellow students. The official title of the award is “MB Research Award for Distinction in Practical *In Vitro* and Alternative Toxicology Methods,” and is meant to focus on the practical aspects of *in vitro* or alternative methods as opposed to basic research or mechanism based research.

This award will have an independent panel of judges

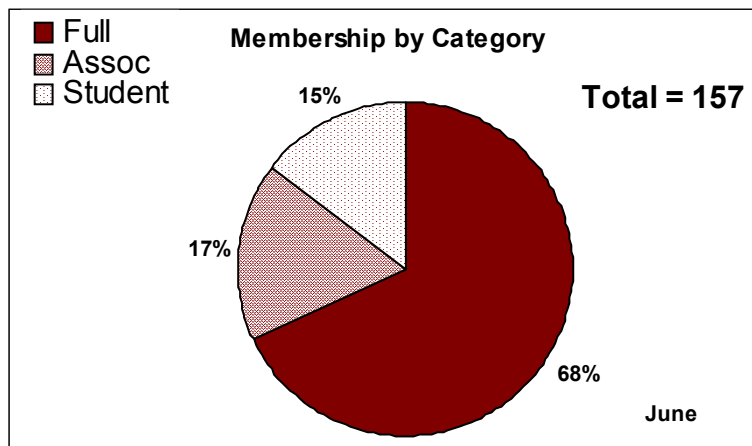
composed of MB Research staff and IVAM executive council members. This award will be judged on best abstract submitted. Only abstracts submitted for the Annual Society of Toxicology meeting will be considered for this award. The deadline for applying to the MB Research Award is **01 January 2008**. If you are interested in being considered for this award, please send abstracts to edelacruz@mbresearch or degeorge@mbresearch.com.



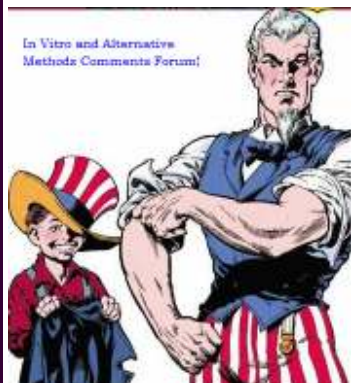
MB Research Labs

MEMBERSHIP STATISTICS

Multiply Your Members



COMMENTS FORUM



In Vitro and Alternative Methods Comments Forum!

To actively engage our members, the 2008 IVAM executive committee is willing to roll up their sleeves and find out what the good, bad, and ugly might have been at the 2007 meeting.

Feel free to comment on the specialty section in general, proposals, or thoughts on how to improve the specialty section.

We encourage our membership to provide this active feedback so we can proactively plan and prepare for the 2008 IVAM meeting.

Please post comments to: <http://www.toxicology.org/ai/news/toast.asp> and click on the InVitro Tab.

IVAM MEMBERSHIP STATISTICS



As of 01 Jan 2007, the IVAM has 152 members which has increased by 13% since 31 July 2006 (134 members). While this steady increase in membership is a sign of growth, meeting attendance was down to 27 people at 2007 IVAM meeting. With an especially low turnout from our student members

We understand most members are apart of other specialty sections, but this low attendance at the annual meeting concerns us. Over the years this has been a

highly attended meeting and we hope to prevent this ship from sinking. We are going to set a goal of 75% membership attendance at the 2008 IVAM meeting and are soliciting opinions on how to make the 2008 meeting more rewarding for our membership (See Comments Forum).

The executive committee would like to thank all of our members, but especially those that attended the meeting, for being apart of and sup-

porting IVAM. We encourage YOU to help the executive committee find ways to increase membership in the specialty section as well as meeting attendance.

47th Annual SOT Meeting

IVAM has agreed to co-sponsor two symposia and one workshop and round table session at the 47th annual SOT meeting. These symposia/workshops have not been accepted by the National SOT council, but hopefully with our support we will see some if not all of these topics at the up-coming meeting. The following is a list of the titles to the symposia/workshops that we agreed to sponsor:

Symposia:

“Stem Cells- There present and future use in therapy and safety,” submitted by Anne Greenlee and Robert Chapin and co-sponsored with the Reproductive and Development SS.

“Interdisciplinary approaches for improving chemical hazard testing paradigms,” submitted by Ivan Rusyn and David Dix

Roundtable/workshop:

“Current and future State of Invitro screening strategies for safety,” submitted by Denise Robinson and Robert Chapin and co-sponsored with the Drug Discovery SS.

To find out more about the upcoming meeting go to www.toxicology.org

**“Students get
ONE specialty
section
membership
FREE!”**



Seattle Fun Facts

- The City of Seattle is located in the State of Washington on Puget Sound, 113 miles (182 km) south of the US-Canadian Border.
- It is at a Latitude 47° 37' and north Longitude 122° 19' west.
- Land area covers 217 sq km, and its water area covers 150 sq km (41% water in city limits).
- The city is located at sea level. The highest hill elevation in the city is 520 feet.
- The lake Washington Ship Canal is an east/west running waterway that geologically divides Seattle into northern and southern sections.
- Before it got the name Seattle in the late 1852, the city was known as Duwamps.
- There are over 150 bridges in use in Seattle.
- More than 75% of residents have internet access at home.
- The city is separated from the Pacific Ocean by the Kitsap and Olympic peninsulas.
- Has the nickname of the “Emerald City” because of its hundreds of parks.





IVAM Goals:

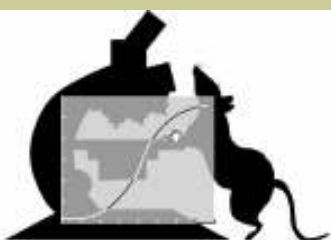
Produce a program for the up-coming SOT membership that both entices and enlightens

Establish a committee structure to provide a mechanism for active participation of our membership

Increase IVAM membership

<http://www.toxicology.org/isot/ss/specsection.asp#INVITRO>

Stay tuned for future Newsletters with updates on the "Colgate-Palmolive Post-Doctoral Fellowship in In Vitro Toxicology," and the "Colgate-Palmolive Grant for Alternative Research."



In Vitro and Alternative Methods Specialty Section

Remember it is never too early to start planning for:



See you in 2008!



SOME USEFUL LINKS

Some useful links:

Society of Toxicology - www.toxicology.org

American College of Toxicology - www.actox.org

National Institute of Public Health and Environment Interspecies - www.rivm.nl/interspeciesinfo

American Association for Laboratory Animal Science - www.aalas.org

UC Davis center for alternative animal use - www.vetmed.ucdavis.edu/Animal_Alternatives/main.html

European Centre for the validation of Alternative methods - ecvam.jrc.cec.eu.int/index.htm