

Society for In Vitro Biology

2010 *Annual Report*

President's Report

As I complete the first year of my Presidential term, I am filled with deep appreciation for the numerous people who have committed their time and efforts to sustaining SIVB and guiding it into the future. At the same time, I recognize the challenges that all professional scientific societies are facing today, and, more importantly, the huge challenges being faced by all of our members in today's economic and political climate. More specifically, we all know someone who has been harmed by severe climatic disasters around the world. We have had members lose homes and labs. We are aware that individuals who have looked forward to attending the 2011 meeting in Raleigh will not be able to be there with us. The entire country of Japan is still recovering from one of the most severe environmental calamities that I have witnessed. There are many positive things about SIVB for me to report to you, but we can never turn our backs on those in need.

In preparing to write this report, I looked back over Todd Jones' final Presidential report last year. He talked about the financial state of the Society being "in the black" and on the most secure financial footing in years. He hoped that the new Board of Directors would be successful in continuing this fiscal responsibility. Thanks to the superb work of the previous Board, the 2010 combined SIVB-IAPB meeting in St Louis not only did not drain our resources, as had been feared, but turned out to produce an income for our Society. Based on the tremendous amount of work by the Program Committee for the 2011 meeting, we fully expect that trend to continue in Raleigh. Under the leadership of Cindy Goodman, the Program Committee driven by Brad Upham of IVACS and Kan Wang of Plant Biotechnology has given us a program packed with cutting edge science and a speakers' list of leading experts in all the respective fields. This will be an outstanding meeting.

In the area of publications, one of the principal means by which a Society contributes to the field, we are seeing continued growth in our two journals and in associated book publications. As we came out of the 2010 meeting, it looked like we were in great shape with both journals and on the verge of signing a new publishing contract with Springer. Over the past year, the Board had to face significant challenges in the publication arena, and I am pleased to say that all issues were resolved and we never missed a beat in continuing the growth and long range stability of our journals. Our two Editors-in-Chief, Dwight Tomes with In Vitro – Plant and J. Denry Sato with In Vitro – Animal, had been expanding the content of the journals and improving the quality during their terms. In a short period of time, both Editors informed the Board they were required to step down. This could have been a disaster for the Society. Replacing one of these fine editors would have been a challenge. To replace both seemed daunting. Concurrently, we had to significantly revise the contract with Springer that had been

discussed in St Louis. As I look back at the discussions of the Board during those days I am struck by the calm, professional conversations held by the Board and the Publications Committee chaired by Barbara Reed that led to the acceptance of the Editor-in-Chief position for In Vitro – Plant by John Finer and that for In Vitro – Animal by Tetsuji Okamoto. I've got to say, it doesn't get any better than that. Our journals are in excellent hands and the future is bright. How bright? As I was writing this report I received a UPS delivery of the final Springer contract for my signature. It is signed and out the door. SIVB publications will continue to lead the In Vitro science field. My sincere thanks to all.

I wish I could share some good news with you on the membership front. World financial problems and changing demographics continue to present challenges to maintaining and growing our membership numbers. I promise that we are continuing to explore ways of making SIVB more attractive to our scientific colleagues, but we always solicit your ideas. Please contact me or any of the Board members with ideas you have about making SIVB better. As members, an important conduit of communication is your Section Officers. Michael Fay of IVACS and Fredy Altpeter of Plant Biotechnology have played key roles in our successes over the past year and both are tireless in looking for ways to make your Society more responsive to you. Talk to them, help them keep us flourishing.

It's not so hard finding good things about our membership. All you have to do is speak with some of them or read about what they are doing. Just this past Saturday, I had a great time watching a recording of a previous week's segment of the Dr. Oz show. My wife has really gotten into that show, but since we are both out of the house all day, she learned how to program our DVR. She told me I should come and watch an episode since it was about cancer treatments. Actually, it was about cancer protective measures. Since I had spent many years in cancer research, this is always of interest to me. I told her to start watching and I would be right in. As I came into the room, I actually shouted "That's Mary Ann!" There was Mary Ann Lila, SIVB Member and former President. Mary Ann doesn't need much introduction to SIVB members and those who attended the meeting in St Louis probably saw her presentation on the Plants for Human Health Institute in North Carolina of which she is the Director. In fact on Wednesday June 8th, a visit to the



William J. Smith
President, Society for In Vitro Biology

Institute in Kannapolis is one of the special tours of the 2011 SIVB meeting. It is exciting to learn about all the successes of our members and I hope you will let us know when some special event or recognition involves you.

"Overall, I could not have hoped for a better year in my presidency of this wonderful society."

Overall, I could not have hoped for a better year in my presidency of this wonderful society. Between the members, the officers, and the committees, this has been a great experience. I would be remiss if I did not mention the individuals who work daily to make SIVB a success. Our office staff, under the direction of Marietta Wheaton Ellis at New Beginnings Management, handles all the business aspects of SIVB. Their dedication, professionalism, and skill make SIVB the type of society that we all want to belong to.

Lastly, I invite you to spend time browsing our webpage www.sivb.org. Under Membership you can find listings of the Board, Section Officers, Constitution & Bylaws. You can also find information on our educational and outreach programs, purchase SIVB merchandise, books, videos, and many other items of member interest. SIVB is your Society. You want to be involved, and we want you to help us create a brighter future for SIVB. Thank you all for your efforts on behalf of SIVB. I look forward to seeing you in Raleigh.

William J. Smith
President, Society for In Vitro Biology
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Secretary's Report

The Secretary's job is to provide a written and accurate record of discussions and motions made at Board meetings, and to provide that record to the board and the society membership. Critical to the board meetings are the "action items", which are also assembled and incorporated into the minutes. Action items provide documentation for important issues and actions which need to be resolved in a timely fashion.

All the minutes from board meetings have been posted on the website for review by the SIVB membership.

It has been a learning experience to serve as a 2-term Secretary for the society. Capturing the essence of discussion at board meetings and identifying issues that qualify as Action Items in the minutes has been challenging and quite intense at times. I appreciate the patience of former president Todd Jones and current president Bill Smith during board meetings. I am especially grateful to Marietta Wheaton Ellis, who took tremendous care in proofing and editing the first drafts of the recorded minutes, prior to distribution to the board.

John J. Finer, Secretary
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Treasurer's Report

Although report writing is not usually thought of as a pleasurable undertaking, it can come close, especially when it is an opportunity to bring good news to the readers. Here we are at the end of the first decade of the 21st century, and as can be seen in the Treasurer's Summary Report, which is included as part of this SIVB Annual Report, 2010 has ended on a continuing positive note. Looking at the year end Activities Statements for December 31, 2009 and 2010, it can be seen that total net assets for 2010 exceed those for 2009 by \$35,313. As can be seen quite clearly, a positive 2009 financial outcome has improved further in 2010. On the financial position statement you will note that assets are listed as restricted or unrestricted. This breakdown is dependent upon their degree of liquidity and specificity of purpose, such as ready availability to pay bills or as investments for our future. One important aspect of maintaining a positive financial picture for our organization is our investment strategy. We have continued working with Matthew Topper, financial adviser from Morgan Stanley Smith Barney, who has carefully researched investment options, a tough task under today's economic conditions, to identify those with the greatest potential for return and minimized risk. Following careful review of the recommendations, we are confident that the best available choices have been made.

It is almost a full year since we met jointly in St Louis with IAPB and our 2011 annual meeting in Raleigh NC is rapidly approaching. Knowing how tricky it can be to manage any type of collaboration well, especially when finances play a role, we can be justifiably proud of the excellent job done by our Officers, Board of Directors, Committee members and New Beginnings Management staff who diligently represented our needs and interests so well towards the overall successful outcome of the 2010 joint IAPB/SIVB meeting. We are a unique society, bridging a broad range of disciplines, and we can feel proud of the true team spirit that abounds across the society. I am confident in our ability to continue to enhance the positive trends reported here.

Barbara B. Doonan, Treasurer
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Business Office Report

The Business Office activities focused on the 2010 In Vitro Biology Meeting, publications, and membership.

2010 In Vitro Biology Meeting

The 2010 In Vitro Biology Meeting was held in conjunction with the 12th IAPB Congress in St. Louis, Missouri from June 6 – 11, 2010 at the Americas Center. This year the SIVB held plant-focused sessions with the IAPB and had a separate course of Animal-focused sessions. Each morning, the two organizations held joint plenary sessions. The Business Office worked extensively with the IAPB and the Missouri University Conference Center, who coordinated the joint meeting, to arrange for all events, room needs, materials and other requirements for the SIVB meeting.

The Business Office also worked directly with the various venues in St. Louis to organize the committee meetings and special events specifically for SIVB. The special events held during the meeting included the Joint Sections Social on June 7, 2010 and the IAPB Gala dinner held on June 10, 2010. This year's silent auction was during the Joint Sections Social. Entertainment for the social was generously provided by Hobbit Nirvana, comprised of SIVB members. During the event, President Bill Smith held the drawing to announce the winners of the "Renew by December 31" campaign held at the end of last year. Everyone enjoyed both the entertainment and the camaraderie of the event.

SIVB presented the 2010 Lifetime Achievement Awards during the SIVB Business Meeting to Dr. Donald Ingber, PhD; Dr. Wilf Keller, PhD; and Dr. Peggy G. Lemaux, PhD. These esteemed scientists were being honored for their years of exemplary research, achievements, and pioneering contributions to the field of cell culture. The 2010 Fellow Awards were presented to Dennis Gray, PhD, and Wayne A. Parrott, PhD, during the SIVB Business Meeting. Distinguished Service Awards were also presented to Daniel C. W. Brown, PhD; Dennis A. Laska; Peggy J. Ozias-Akins, PhD; Paul J. Price, PhD; Guy Smagge, PhD; and Dwight T. Tomes, PhD.

At the 2010 In Vitro Biology Meeting, the registration for SIVB reached 248. There were 123 members, 28 non-members, 73 students/post docs, 5 one-day, and 20 speaker registrants. Also, there were 2 staff registrants.

Because of the joint nature of the meeting, SIVB could not offer its normal free registration to all student attendees. The Business Office worked with the Student Awards Chair and the Board of Directors to design a Fellowship Program which provided recipients with free registration to the scientific sessions of the 2010 Meeting and free membership to the Society in 2011. The office managed the submission process and worked with both the Missouri University Conference Center and the IAPB Meeting Secretariat who was handling the IAPB meeting administration to maintain the approved list and distribute the 43 fellowships to students who successfully submitted abstracts and applications for the meeting.

2011 In Vitro Biology Meeting

The upcoming 2011 In Vitro Biology Meeting is an international event focusing on the science, novel technologies and advances of in vitro biology for both plants and animals. The Raleigh Convention Center in Raleigh, North Carolina will be the site of the 2011 In Vitro Biology Meeting. The Raleigh Convention Center is adjacent to the new Raleigh Marriott City Center, the designated hotel for the meeting. With a fabulous downtown location, the Raleigh Marriott City Center is near it everything you could need for entertainment: Fayetteville Street, City Market, the Museum of Natural Sciences, and more.

The 2011 In Vitro Biology Meeting will highlight a keynote presentation by former Under Secretary of Agriculture (2006-2008) under the Bush Administration, former Dean of Agriculture at



Members of the IVACS Section take time to catch up during the social events.

the University of Georgia and Past President of the Council for Agricultural Science and Technology (CAST), Dr. Gale Buchanan. He will be presenting a talk on "Agricultural Research and the Next Green Revolution: Increased Productivity and Food Security". Additionally, John J. Finer, PhD, and Valerie C. Pence, PhD, are to receive the SIVB Fellow Award. There are a host of additional awards being presented at the meeting. The 2011 City of Oaks Silent Auction will be held through Tuesday, June 7, 2011. SIVB will be hosting other special events during the meeting, including an Evening at the Duke Homestead and a Tour of the Plants for Human Health Institute.

The Student Initiative Program continued to grow with the returning offer of free student membership including online access to the journals for all students who register and attend the SIVB Annual Meeting. The Student Committee organizes symposia and workshops during the annual meeting to encourage growth and participation of its student members. In 2010, the first Student Oral Presentation Competition was held for the IVACS section, along with the PBS section's Student and Post Doc Oral Presentation competitions. The Business Office also worked with a small group of SIVB members to prepare a grant with the National Science Foundation to support the Student Initiative at the 2010 In Vitro Biology Meeting. SIVB and IAPB used this money to support the registration fees for students through the SIVB and IAPB Student Registration Fellowship to attend the joint 2010 In Vitro Biology Meeting/12th IAPB Congress.

In 2011, the Business Office worked intensively with the North Carolina Biotechnology Center to help support the 2011 In Vitro Biology Meeting. The Business Office designed broadcast emails that were sent to all the NC Biotech members and specialty emails sent specifically to potential student and post doctoral members. The office staff also prepared the grant application presented to the NC Biotech Center which raised over \$8,000 for the 2011 Meeting.

Membership

The Business Office maintains an online membership database, which allows for real time purchases of membership and meeting registration. The database's internal system is constantly being updated and evolved by the software providers to add additional functionality. Members are able to use their email and a personalized log in to renew their membership or purchase meeting registrations online. They can also log in to update their contact information. If you wish to access your record on the membership database, but do not have a log in and password, please contact

the office at sivb@sivb.org for more information.

The Business Office implemented membership initiatives including the Member-get-a-Member campaign and the special drawing for members who renewed by December 2010. The Business Office also personally called members to remind them that they had not renewed their 2010 membership and to assist in processing their membership renewals. Additionally, the Business Office extended its use of broadcast emails sent to members about upcoming public policy issues, meeting deadlines and membership renewals. The Job Target site for classifieds continues to offer free or significantly discounted services to SIVB members with greater visibility through their entire site and at the end of 2010, the Business Office began researching social media sites and began preparing an SIVB presence on Facebook released in 2011 to go along with the LinkedIn presence already available.

Publications

The Business Office's Publications Department's was busy in 2010. They worked with Springer and the Publications Chair, Executive Committee, and IAPB to review, revise and finalize new contracts for the two In Vitro Journals. The contracts with Springer are being signed as this annual report is being finalized.

In Vitro - Animal has shown steady growth and 2010 was the first year since 2002 that the journal had published 10 full-length singular issues rather than 6 smaller doubled issues. In 2010, the journal published a special issue on Human Embryonic Stem Cells in the March and April 2010 issues of the journal which was very well received. After the June Annual Meeting, the journal also began a search for a new Editor-in-Chief. After review and discussion, Tetsuji Okamoto was offered the position and assumed his duties on January 1, 2011.

In Vitro - Plant focused on preparing their second special issue, this time on Biodiversity, for the January-February 2011 issue. The Business Office also worked with the Editors and Springer on negotiations for the contract and preparation of a book version of the Biofuels issue published in 2009. The IAPB had discussions during their quadrennial meeting in June 2010 and agreed to continue to publish with the SIVB. The IVP journal also held a search for a new Editor-in-Chief for In Vitro - Plant in the fall

of 2010. After review of appropriate candidates, the position was offered to John Finer who accepted and assumed these duties on January 1, 2011.

The In Vitro Report also experienced a number of transitions in 2010, including a new look released with the January - March 2010 issue and a transition to a new Co-Editor-in-Chief with the departure of Carol Stiff. Sylvia Mitchell replaced Carol as the PBS representative for the newsletter and now works with Michael Fay to publish the In Vitro Report. Members are encouraged to forward their news and information to either of the Co-Editors-in-Chief. Information for submission can also be forwarded to sivb@sivb.org.

The In Vitro journals still receive income from SIVB's previous arrangement with BioOne and its continuing agreement with JSTOR. This income becomes part of the overall revenue stream for each respective journal published with Springer.

Administration

New Beginnings Management, Inc. manages the day-to-day operations of the Society. The Executive Committee holds conference calls with the head of New Beginnings Management to review the status of the Society. Both myself and Michele Schultz comprise the major staff of New Beginnings Management. Having both been long-standing employees of SIVB in the past, we appreciate SIVB's continuing support of NBM and its efforts on behalf of the Society and look forward to the continuation of our work with SIVB's Executive Committee, Board of Directors and Section Officers in the upcoming years.

We offer our thanks to those members whose efforts have been integral to the continuing health of the Society and its endeavors. I would like to personally thank the 2010 - 2012 Board of Directors, Committee Chairs and Section Chairs for their constant care and concern in supporting the future of the SIVB. Their enthusiasm and vision for the Society's potential for growth helps to allow the organization to look toward a bright future. We greatly appreciate their efforts and those of all who volunteer their time on behalf of the SIVB and its mission.

We welcome your ideas and suggestions in promoting and supporting the Society for In Vitro Biology. Please contact us at sivb@sivb.org.

Marietta Wheaton Ellis
sivb@sivb.org



The SIVB Business Meeting was well attended and members used this opportunity to learn more about the organization.



Members compose Hobbit Nirvana, who entertained at the Joint Sections Social on June 7.

In Vitro Animal Cell Sciences Section

The 2010 Society for In Vitro Biology Meeting took place on June 6th – 11th in St. Louis, Missouri in conjunction with the 12th International Association of Plant Biotechnology (IAPB), and the annual business meeting for the In Vitro Animal Cell Sciences (IVACS) Section took place on June 7th from 8:00 – 9:00pm. The newly elected IVACS Officers who presided over the business meeting included:

- Michael J. Fay – Chair
- Brad Upham – Vice – Chair Program
- Yvonne Reid – Vice – Chair Membership
- Cynthia Goodman – Secretary

During the business meeting we recognized and thanked the previous IVACS leadership team for their service to the SIVB. The previous IVACS Officers included:

- Dennis Laska – Chair
- Cynthia Goodman - Vice-Chair Program
- Richard Heller – Vice-Chair Membership
- Guido Caputo – Secretary

We also recognized and thanked John Harbell and his team at our annual Business Meeting for their outstanding efforts at raising funds to support the 2010 SIVB Meeting. We also acknowledged the generous support of the following sponsors of the 2010 Annual Meeting.

- Alternatives Research and Development
- Altria Group, Inc.
- Boston Children's Hospital
- Colgate Palmolive Company
- Johnson and Johnson
- Mary Kay, Inc.
- National Anti-Vivisection Society in Cooperation with the International Foundation for Ethical Research

“As members of IVACS we all need to become active in the recruitment of new members and encourage our colleagues and students to join SIVB...”

The next order of business at our meeting was recognizing and thanking J. Denry Sato, Editor-in-Chief of In Vitro Cellular & Developmental Biology – Animal. Under Denry's editorship our section's journal realized an increase in both the quality and number of submitted manuscripts, and as a result the journal is now publishing monthly issues again! Denry also worked with the International Stem Cell Institute (ISCI) to create a special issue of In Vitro Cellular & Developmental Biology – Animal on the topic of Human Embryonic Stem Cells. Denry announced that he would be stepping down as Editor-in-Chief and that he would assist in identifying the new Editor-in-Chief, and in facilitating the transition process.

Cynthia Goodman (IVACS Vice-Chair Program) and the Program Planning Committee did an excel-

lent job of planning the IVACS Scientific Sessions at the 2010 annual SIVB meeting. The IVACS and joint IVACS-Plant Biotechnology sessions at the 2010 meeting included: Animal-Plant Interactions; Advanced Dynamic 3D In Vitro Systems; The Use of Stem Cells in Regenerative Medicine and In Vitro Toxicology; How to Get the Most from a Scientific Conference; Cancer Biology and Biological Sensors Contributed Paper Session; Animal Cell Culture Applications Contributed Paper Session; Biological Sensors of Environmental,

Chemical and Biological Toxicants; Evaluating the impact of Bioactive Molecules on Animals Using In Vitro Models; The Basics of Cellular Imaging; Preservation and Storage Techniques; and A Comparative Approach to Innate Immunity. Thank you to the following conveners for facilitating the success of these excellent sessions: Guy Smagge, T. Michael Spencer, Lia H. Campbell, Brad L. Upham, Paul J. Price, John W. Harbell, S. Richelle Monaghan, Michael J. Fay, Michael K. Dame, William J. Smith, Lucy Lee, Thomas M. Gurganus, and Cynthia L. Goodman.

Students were an integral part of our 2010 annual meeting. At the IVACS Oral Student Presentation Competition, Cordula Bartel and S. Richelle Monaghan tied for the first place prize. Cordula Bartel from Vetmeduni Vienna (Vienna, Austria) presented her research titled “Influence of steroid hormones on canine endometrial cells in a three-di-

mensional in vitro system” and S. Richelle Monaghan from The University of Waterloo (Waterloo, Ontario Canada) presented her research titled “The opportunities of the microsporidian *Anncalia algerae*: In vitro they seem unlimited”. The Honor B. Fell Award and the Cellular Toxicology Award were awarded to S. Richelle Monaghan at the IVACS Business Meeting. The Education and Student Committees also organized a session titled “How to get the most from a scientific conference” and S. Richelle Monaghan was the convener for this session.

Several members of the In Vitro Animal Cell Sciences Section were Award recipients at the 2011 annual meeting. Newly elected SIVB President and IVACS member, William Smith, presented Dr. Donald Ingber (Harvard Medical School and Children's Hos-



Richelle Monaghan, IVACS Student Oral Presentation Competition Winner

While the IVACS Section and the Society as a whole are currently in a better financial situation, we still face the very serious problem of declining membership. From 2009 to 2010 the SIVB experienced a 20% drop in the regular membership. At the current membership drop rate the IVACS section will disappear in ~5 years. While these numbers are discouraging, I am optimistic that we can take action now to ensure the future of the IVACS Section and the SIVB. As members of IVACS we all need to become active in the recruitment of new members and encourage our colleagues and students to join SIVB and maintain their active membership. The Society has initiated the following incentives to promote the recruitment of new members:

- Go to the SIVB Website and fill out the on-line member referral form. The SIVB will send the referred prospective member a personal invitation and they will receive \$10 off their membership fee.
- For every new member you refer that joins the SIVB you will be entered into a monthly drawing for a \$100 gift certificate.
- If you recruit 5 new members who join the SIVB, you will receive complimentary annual meeting registration for the next SIVB Meeting.

At the 2010 Meeting in Saint Louis, Cynthia Goodman was nominated as the Program Chair for the 2011 Meeting in Raleigh, NC, and she has been working with Brad Upham (IVACS Vice-Chair Program) and the Program Planning Committee to create an outstanding scientific session for our 2011 Meeting. We hope to see many of our IVACS colleagues in Raleigh, NC at the 2011 SIVB Meeting (June 4 - 8th).

The success of the IVACS Section and the SIVB is due to the dedication and hard work of our Membership and our Business Office at New Beginnings Management, Inc. Thank you to all of the IVACS and Plant Biotechnology Members who have contributed to our success, and Thank you to Marietta Wheaton Ellis (Meeting Secretariat), Michele Schultz (Publications Manager) and the entire staff at New Beginnings Management, Inc for their continuing support.

Michael J. Fay, In Vitro Animal Cell Sciences Section Chair
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Plant Biotechnology Section

The year 2010 was special for us plant scientists in that the SIVB meeting was held for the second time in SIVB history in conjunction with the IAPB (International Association of Plant Biotechnology) Congress. The impressive program with 45 concurrent symposia, 12 plenary lectures, and 251 posters attracted over 750 attendants from around the globe. There were 123 SIVB members, 28 non-members, and 5 one day registrations. Also, there were 73 student/Post Doc registrants, and 20 invited speakers registered. The majority of the program was coordinated by Roger Beachy and his IAPB program committee. Mike Spencer (2010 PBS Program Chair), along with the entire PBS Program Planning Committee, created a well-rounded and synergistic scientific program emphasizing aspects of tissue culture. PBS sessions included:

- In Vitro Approaches to Ensure Plant Biodiversity (convened by Eric Bunn and Valerie Pence)
- Cryopreservation for Germplasm Conservation (convened by Barbara Reed and David Ellis)
- Challenges in Acclimatizing and Rooting in Vitro Propagated Plants (convened by Jon Preece)
- Factors Influencing Culture of Recalcitrant Species (convened by Mike Kane)
- Optimizing Mineral Composition of Plant Growth Media (convened by Randall Niedz)
- Novel Plant Growth Regulators for Plant Production (convened by Mike Kane)

Two joint PBS/IVACS sessions and one educational session focused on:

- Biological Sensors of Environmental, Chemical and Biological Toxicants (convened by Bill Smith)
- Preservation and Storage Technologies (convened by Lia Campbell)
- How to Get the Most from a Scientific Conference (convened by S. Richelle Monaghan)

Additional highlights of the PBS program were the Postdoc and the Student Oral Presentation Competitions in Plant Biotechnology coordinated by Mike Bosela and Sukhpreet Sandhu. Mike and Sukhpreet did an outstanding job in advertising the competition, inviting participation of student and postdoc contestants, recruiting judges, preparing a list of finalists for the inclusion in the program, moderating the sessions and presenting the awards. The 19 student contestants were judged by Michael Kane, Lisa Lee, and Ian Curtis, and the 11 postdoc contestants

were judged by Jeffrey Adelberg, Maud Hinchee, and Nancy Reichert. The cash awards for the student winners (1st Place: Elsa Pons, IVIA, Spain; 2nd Place: Muhammad Fahim, CSIRO, Australia; 3rd Place: Carlos M. Hernandez-Garcia, Ohio State University) and postdoc winners (1st Place: Changfu Zhu, Universitat de Lleida, Spain; 2nd Place: Chaunen Zhou, Samuel Roberts Noble Foundation; 3rd Place: Walid Fouad, University of Florida) were donated by Monsanto.

With tightening budgets, the fund raising task becomes increasingly difficult and we appreciate the very successful effort of Kan Wang (2010 PBS Program Co-Chair), Mike Spencer (2010 PBS Program Chair) and Peggy Ozias-Akins (2010 PBS Chair) in obtaining a National Science Foundation (NSF) grant in the amount of \$49,600, which supported SIVB and IAPB student registration and SIVB student membership. Kan Wang also worked hard to raise funds from industry that enabled our section to support the above PBS sessions. At the PBS Business Meeting, she presented certificates of appreciation to all organizations that donated funds to support the 2010 PBS program (total \$19,166) including Altria, Bayer Crop Science, Pioneer Hi-Bred, and the Scotts Company.

A number of very deserving awardees were recognized during the 2010 SIVB or PBS business meetings in the America Center in St. Louis. Fellow awards were presented to Wayne Parrott and Dennis Gray for their great impact on their profession and the SIVB. Peggy Ozias-Akins, Dan Brown and Dwight Tomes received the SIVB President's Distinguished Service Award for their dedicated and continued support of SIVB. Peggy Lemaux and Wilf Keller were honored with the 2010 Lifetime Achievement Award for their pioneering research in plant tissue culture and biotechnology and their excellent mentorship of students and postdocs.

The following student awards were presented by Pam Weathers (Chair of the Student Affairs/ Award Committee): Joseph F. Morgan Award to Sherif Sherif, University of Guelph, Canada; The Wilton R. Earle Award to Je Hyeong Jung, University of Florida; The John. S. Song Award to Carlos M. Hernandez-Garcia, Ohio State University; The Philip R. White Award to Ergun Kaya, Gebze Institute of Technology, Turkey and the Hope E. Hopps Award to Zachary Raymond King, University of Georgia. The Student Travel Awards

were presented to Emrah Kirdok, Gebze Yuksek Teknoloji Enstitusu, Turkey; Je Hyeong Jung, University of Florida; Milana Trifunovic, Institute for Biological Research, Serbia; Sherif Sherif, University of Guelph, Canada; and Yogesh Taparua, University of Florida.

We had fun at the joint section SIVB social, held in the America Center of St. Louis and enjoyed the entertainment provided by our multi-talented colleagues Greg Phillips and Jerry Ranch.

Kan Wang (2011 Plant Program Chair), Tzvi Tzfira (2011 Plant Program Co-Chair) and Vibha Srivastava (2011 Junior Plant Program Co-Chair) invested an exemplary effort on our 2011 program and the fund raising. Thanks to their hard work and those on the Plant Program Committee, we are looking forward to an exciting meeting which will take place from June 4th to June 8th in Raleigh, NC.

One important issue that continues to affect the Plant Section and the entire Society is reduced membership.

One important issue that continues to affect the Plant Section and the entire Society is reduced membership.

In 2010, the Plant Section was comprised of 285 regular members, down from 309 in 2009. Overall, the Society lost 349 regular members (40%) since 2005. The best strategy to address membership is to ensure excellent scientific programs at our annual meetings. In support of an excellent program we have to raise sufficient funds to invite outstanding speakers. I will also continue to challenge all section members to become more actively involved in recruiting new members. Your work and the hard work of the membership committee chaired by John Finer are already bearing fruit. The growing list of new members can be found here: <http://www.sivb.org/InVitroReport/45-1/NewMembers.htm>. I am sure you will make them feel very welcome with that wonderful sense of camaraderie in our section.

Remember section officer elections for the 2012-2014 are coming up this fall, this is a great opportunity to get more involved in PBS. Nominations will be solicited in the next weeks.

As planning for the 2012 SIVB World Congress continues, please support your current PBS officers (Valerie Pence, PBS Co-Chair; Sylvia Mitchell, PBS Secretary and myself as PBS Chair) and Tzvi Tzfira, 2012 Plant Program Chair and Vibha Srivastava, 2012 Plant Program Co-Chair with suggestions and your continued dedicated involvement.

In closing, I would like to acknowledge the outstanding leadership demonstrated by Past PBS Chair Peggy Ozias-Akins, Valerie Pence (Past and Present PBS Co-Chair) and Mike Bosela (Past PBS Secretary/Treasurer). Their efforts enhanced our section and conference experience in many ways. I would also like to acknowledge the great contributions made by Sylvia Mitchell (2010 Plant Section Secretary/Treasurer).

Fredy Altpeter, Plant Biotechnology Section Chair
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Sukhpreet Sandhu presents Elsa Pons with the first prize at the Plant Student Oral Presentation Competition



Muhammad Fahim won 2nd prize at the Student Oral Presentation Competition



Carlos Hernandez-Garcia took 3rd place at the competition

STANDING COMMITTEES

Awards

The Awards Committee, comprised of Maud Hinchee, Dennis Laska, Peggy Ozias-Akins, and Todd Jones, was pleased to receive multiple meritorious nominations for the Fellow Award and the Lifetime Achievement Award. The Fellow Award was created to recognize the outstanding professional accomplishments in in vitro biology and service to the Society. The Lifetime Achievement Award recognizes and honors those who have achieved academic excellence and who have made significant contributions to the field of in vitro biology. This year we received no nominations for the Young Scientist Award which recognizes professionals who have contributed significantly to advancement of the in vitro sciences within ten years of completion of their terminal degree.

Lifetime Ach

Lifetime Achievement Award

We are pleased to honor three distinguished individuals, Drs. Peggy Lemaux, Wilf Keller, and Donald Ingber, who were selected to receive the Lifetime Achievement Award in 2010. Dr. Peggy Lemaux is considered by many as being overall the most influential contributor to the field of monocot transformation. She is recognized by many researchers internationally for her groundbreaking research in corn and barley transformation, and she has also been critical in the development of transformation protocols for other species such as wheat, rice, oats, sorghum and turf/forage grasses. Her research currently focuses on to alter gene function in barley for the improvement of germination properties, allergenicity, dough-making characteristics and digestibility. Dr. Lemaux has authored over 90 research articles in the field of plant biology and biotechnology. The international barley and sorghum research communities have acknowledged that they are indebted to her research and assistance in furthering their own research programs. In recognition of her contributions to the field of plant biology, Dr. Lemaux has received the title of AAAS Fellow and received the Dennis R. Hoagland Award from the American Society of Plant Biology. Despite her tremendous contributions to the field of plant biotechnology, Dr. Lemaux is also highly lauded for her outreach activities in increasing the public understanding of plant biotechnology and providing valuable information for the development of governmental policy. She has targeted US and international



Dr. Peggy Lemaux, 2010 Lifetime Achievement Award Recipient

audiences, and has actively communicated with types of stakeholders using multiple communication media, as well as through innumerable workshops, seminars, and educational programs. She has also published extensively in the area of education on issues associated with plant biotechnology.

Dr. Wilf Keller is widely recognized as a leader in the use of in vitro techniques for the genetic improvement of crops, especially crops in the Brassica genus. He was a leader in the development of doubled haploidy, somatic hybridization, and transformation of oil seed rape. He has published over 120 referred papers, as well as multiple book chapters. Through his work, and those of his students, rapid breeding advancements were made possible in Brassica species, with the results being a tangible improvement in the economic value of canola. His research led to the first biotech crop commercialized in Canada. Dr. Keller is a leader in plant biology, as demonstrated by his roles as the head and research directors of prestigious Canadian research institutions, Agriculture and Agri-Food Canada and the Plant Biotechnology Institute of National Research Council of Canada, as well as his current role as President and CEO of Genome Prairie. Under his leadership, plant biotechnology research in Canada became recognized as among the best in the world. In his leadership position, Dr. Keller has been able to positively affect the careers of many plant scientists world-wide.



Dr. Wilf Keller, 2010 Lifetime Achievement Award Recipient

History and Records Committee

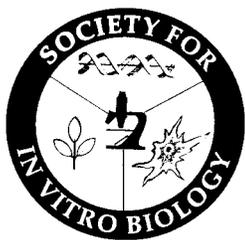
The History Society was established in 1979 at the Seattle Washington Tissue Culture Association (TCA) meeting as the Records and Historical Committee. The charge of the committee is to preserve historical information concerning the growth, maintenance and in vitro experimental use of cells, tissues and organs. The History Society, in conjunction with the Records and Historical Committee oversees contributions to the SIVB archives located in the main library of the University of Maryland, Baltimore, MD. This archived material is available to all that would like to acquaint themselves with the history of tissue culture and scientific application to in vitro biology.

Members of the History Society and Records Historical Committee include: Sandra L. Schneider (Chair), Research & Clinical Laboratory Systems; Gertrude C. Buehring (Co-Chair), University of California, Berkeley; Barbara B. Doonan; Ian Freshney, University of Glasgow; Cynthia L. Goodman, U.S. Department of Agriculture, ARC, Biological Control of Insects Research Laboratory; Leonard Hayflick, University of California, San Francisco; Karl Maramorosch, Rutgers The State University of New Jersey; Wallace L. McKeehan, Center for Cancer & Stem Cell Biology Institute of Biosciences and Technology (IBT) Texas A&M Health Science Center, Houston, TX;

Tetsuji Okamoto, Graduate School of Medicine, Dentistry & Pharmaceutical Sciences, Hiroshima University, Japan; Jon Ryan, Abbott Laboratories; Yvonne Reid, American Type Culture Collection; J. Denry Sato, Manzanar Project Foundation, and Just Vlak, Wageningen University Plantenwetenschappen.

The History Society and Records History Committee supported the nomination of Donald Ingber, MD, PhD, Professor of Bioengineering, Harvard School of Engineering & Applied Sciences, for the 2010 Lifetime Achievement Award. Dr. Ingber is well known nationally and internationally for his pioneering efforts in the development of biomaterials and establishment of tissue-engineered angiogenesis, systems biology, nanotechnology and architectural models for medicine and surgery. A notable inventor, he holds numerous patents and has published hundreds of peer-reviewed scientific articles in the area of tissue engineering and novel biomaterials. In keeping with the mission and roll of the SIVB History Society, we will continue to serve as a venue to recognize and nominate scientists who have contributed to the pioneering efforts, global technology and practical application of in vitro biology.

There has been considerable interest by bioscience historians to document the Society and the notable scientists who pioneered the field of in vitro biology. Dr. Leonard Hayflick, Emeritus Professor of Anatomy, University of California was interviewed by an Arizona State History of Science doctoral student. He also spent numerous hours educating Rebecca Skloot on the HeLa cell culture and correcting scientific errors in her initial draft of *The Immortal Life of Henrietta Lacks*.



“The Awards Committee, ...was pleased to receive multiple meritorious nominations for the Fellow Award and the Lifetime Achievement Award.”

ievement

Dr. Donald Ingber is well known nationally and internationally for his pioneering efforts in the development of biomaterials and establishment of tissue-engineered angiogenesis, systems biology, nanotechnology and architectural models for medicine and surgery. Through his efforts and application of novel in vitro culture systems, researchers now recognize the importance of mechanical stresses, ECM mechanics, and cytoskeletal pre-stress for control of cell form and functions that include cell cycle progression, apoptosis, differentiation and stem cell fate lineage switching, as well as motility, angiogenesis and tissue patterning. They also have a deeper understanding of how forces impact cellular biochemistry and gene expression at the molecular biophysical level. In short, “Dr. Ingber has truly changed the way we think about the environmental control of mammalian cells”. Dr. Ingber’s papers (a total of more than 230) were cited more than 21,000 times, with an amazing average number of citations of more than 90 per publication. A contributing member of the SIVB since 1986, Dr. Ingber has been a Distinguished Plenary Speaker and symposium contributor for many World Congress and Annual Congress meetings. Dr. Ingber has received numerous prestigious awards to include: the 1996 Gordon Sato Lecture; 2004 Pomerat Memorial Lecture, 2004 Judah Folkman Professor of Vascular Biology, Harvard Medical School and Children’s Hospital, and the 2009 Biomedical Engineering Society, Pritzker Distinguished Award. As the Founding Director of Harvard’s new Wyss Institute for Biologically Inspired Engineering, he leads a Plat-



Dr. Donald Ingber, 2010 Lifetime Achievement Award Recipient

form that is focused on development of ‘Biomimetic Microsystems’. He is literally now building microfluidic biochips with living cells that recapitulate organ-level functions in an attempt to replace animal testing for drug screening, toxicology, and diagnostic applications, as well as therapeutic devices. Dr. Ingber is recognized world-wide as an innovator in microengineering for basic and applied in vitro cell biological research.

Fellow Award

We selected Dr. Dennis Gray and Dr. Wayne Parrott to receive the Fellow Award based on their accomplishments as well as their enthusiastic and dedicated service to the Society.

Dr. Dennis Gray has been an active member in SIVB since 1982, and has been instrumental in organizing annual meetings, giving presentations, encouraging his students to present their work at the meetings, and participating on the Editorial Board for the society’s journal. He has broadly and significantly contributed to the dissemination of knowledge in the field of in vitro biology, through his roles as Editor and Editor-in-Chief of the journal *Plant Cell, Tissue and Organ Culture*, and his current roles on the editorial board of the *Journal of Plant Biology* and as Editor in Chief for the *Critical Reviews in Plant Sciences*. Dr Gray’s scientific contributions to the field of in vitro biology are remarkable: he has been an author on nearly 80 research publications, with 25 of these just in the last 10 years; he edited 4 different books on plant tissue culture, and has been the primary author of 25 book chapters. His internationally recognized research in the area of somatic embryogenesis has been pivotal – from his contributions to the demonstration of direct somatic embryogenesis in a grass, to his expansion of the understanding of the control of somatic embryogenesis in grasses, to his pioneering research in the somatic embryogenesis and biotechnology of grape as well as other fruit species such as melon.



Dr. Dennis Gray, 2010 Fellow Award Recipient

Dr. Wayne Parrott has been a long and active member of the Society. He has been a Board Member of the Society and functioned as the Program Chair for the 2004 SIVB Annual Meeting in addition to acting as organizer and co-chair for earlier meetings. Dr. Parrott also acted as the Plant Biotechnology Section Chair from 2006-2008, has been a leader in scientific outreach to the non-academic community and has edited the “Points to Ponder” column for the SIVB newsletter. It was through Dr. Parrott’s efforts and leadership that a new award, the Young Scientist Award, is now part of the recognition component of the Society. He has authored over 77 journal articles and 13 book chapters, and his is



Dr. Wayne Parrott, 2010 Fellow Award Recipient

In the response “Myth-Busting About First Mass-Produced Human Cell Line” to Steve Silberman’s book review (*Nature* 463, 610, 2010), Dr Haylick discussed the factual errors and the two myths about HeLa cells that are perpetuated citing.

“Your lead-in claims that the death of Henrietta Lacks “led to the first immortal cell line”, but that distinction belongs to the L929 cell line, which was derived from mouse connective tissue and described almost a decade earlier (W. Earle J. Natl Cancer Inst. 4, 165–212; 1943). As Silberman notes, Lacks’s was the first mass-produced human cell line. And HeLa’s alleged growth “with mythological intensity... doubling their numbers every twenty-four hours...”, quoted from the book itself, is no different from the doubling time of cultured normal human cells (L. H. and P. S. Moorhead Exp. Cell Res. 25, 585–621; 1961). The numbers of HeLa cells produced during the first few years of the line’s existence in vitro were unremarkable because of the explant technique used at the time. Production of large numbers became possible several years later, with the introduction of the monolayer culture technique that is still in common use.”

The History Committee continues to explore options and venues to find institutions willing to protect and archive the historical artifacts and records of the pioneering founders of in vitro biology.

Sandra L. Schneider, History and Records Committee Chair
drsandra@stic.net

widely recognized for his leadership position in the somatic embryogenesis and transformation of soybean and other crops including peanut, alfalfa, rice and maize. Dr. Parrott has been highly influential on a global scale in countering misconceptions and concerns associated with plant genetic engineering, and acts as a scientific expert on plant biotechnology to CAST, ILSI and IFIC. He has also advanced public education in the area of in vitro biology and associated biological disciplines, by championing the successful implementation of a Masters and Ph.D. degree program in Plant Breeding, Genetics and Genomics at the University of Georgia.

This year the Phillip White Committee members joined with the main student Awards Committee and we functioned as single group. New animal section members were also added to help in the review process especially to provide the committee with adequate expertise when there are recusals. The committee this year, thus, consisted of Pamela Weathers (Chair), Craig Meyers, Argelia Lorence, Carol Stiff, Sylvia Mitchell, Esther Uchendu, Nirmal Joshee, Cindy Goodman, Guy Smagghe, and William Smith. Because of job changes, Elizabeth Roemer recused herself this year from reviewing applications.

Student Awards

The following awards were presented at the 2010 meeting. Je Hyeong Jung – University of Florida, Gainesville, FL was granted the Wilton R. Earle and SIVB Travel Awards for, “Isolation, Characterization and RNAi-suppression of COMT and 4CL genes in Sugarcane.” Carlos M. Hernandez-Garcia, from Ohio State University, Wooster, OH was granted the John S. Song Award for “Rapid functional characterization of soybean promoters in transiently- and stably-transformed tissues.” The Hope E. Hopps Award was won by Zachary R. King – University of Georgia, Athens, GA for “Construction and validation of the novel pANIC vector set by stable and transient expression using in vitro cultures of switchgrass (*Panicum virgatum* L.) and rice (*Oryza japonica* L.)” The Cellular Toxicology and Honor B. Fell Awards went to S. Richelle Monaghan – University of Waterloo, Waterloo, Ontario, Canada for her work on “The opportunities of the microsporidian *Anncaliia algerae*: in vitro they seem unlimited.” The Joseph F. Morgan and SIVB Travel Awards were won by Sherif Sherif – University of Guelph, Guelph, Ontario, Canada, for his work on “JAZ proteins in peach have different responses and characteristics than their orthologs in *Arabidopsis*.” The 2010 Philip White Memorial and SIVB Travel Awards went to Ergun Kaya – Gebze Institute of Technology, Istanbul, Turkey to attend the SIVB meeting in 2010. His work focused on “Development of efficient micropropagation and cryopreservation protocols for *Thymus* germplasm.” SIVB Travel Awards were granted to: Milana Trifunovic, Institute for Biological Research, Belgrade, Serbia for “Genetic transformation of *Centaurium erythraea* with AtCKX1 and AtCKX2 genes using



Student Awards Chair, Pam Weathers (left) with the 2010 Student Award Winners: (L to R) Zachary King, Emrah Kirdok, Je Hyeong Jung, Ergun Kaya, Yogesh Taparia, Sherif Sherif, Richelle Monaghan, Carlos Hernandez-Garcia and Milana Trifunovic.

Agrobacterium tumefaciens”; Yogesh Taparia, University of Florida, Gainesville, FL, for “Direct embryogenesis from immature leaf explants accelerates genetic transformation of a commercially important sugarcane cultivar”; and Emrah Kirdok, Gebze Yuksek Teknoloji Enstitüsü Istanbul Caddesi, Kocaeli, Turkey for “Cryopreservation of *Sequoia sempervirens* by droplet-freezing method and evaluation of post-thaw tissue damage by histoanatomical observations”.

Maud Hinchee, Awards Committee Chair
mahinch@arborgen.com

Pamela J. Weathers, Student Affairs Committee Chair
pweathers@astate.edu

Constitution and Bylaws

The 2010 Constitution and Bylaws Committee did not hold any meetings. No items were brought to the committee chair either by the Board of Directors, or members of the Society. Since not all members are able to attend the committee meetings in person at Annual Meeting due to schedule conflicts or unable to attend the Annual Meeting, the exploration of some avenue for member electronic discussion via something like “LinkedIn” will be explored during the upcoming year. This would give all members of the society a mechanism to suggest improvements to our governing documents and volunteer to assist in preparing recommendations.

Linda Jacobsen, Constitution and Bylaws Committee Chair
Linda8285@aol.com

Development

Fundraising for the 2010 meeting was successful in that \$100,500 was raised to support the joint SIVB/IAPB scientific sessions, IVACS sessions and Student Initiative expenses. Special thanks to Kan Wang, Michael Spencer, Peggy Ozias Akins, Todd Jones, Dwight Tomes and John Harbell who worked diligently in raising funds during this very special meeting. Dwight oversaw all fundraising as the Development Committee Chair, John raised funds for the IVACS sessions, Michael, Todd, and Kan drafted the joint SIVB/IAPB NSF proposal and Peggy finalized and managed the grant proposal that funded the SIVB Student Fellowships in 2010.

The companies and organizations that contributed to the 2010 Annual Meeting were: Alternatives Research Development Foundation; Altria Group, Inc.; ArborGen, LLC; BASF Plant Science LLC; Bayer CropScience; Boston



Three generations of SIVB Plant Section scientists take a moment to talk share their roots

Children's Hospital; Botanical Alternatives Inc; Cargill Inc; Colgate Palmolive Company; Dow Agrosciences, LLC; Enterprise Saskatchewan; Johnson & Johnson; Mary Kay Inc.; Monsanto Company; National Anti-Vivisection Society in cooperation with the International Foundation Ethical Research; National Science Foundation grant # 1032777; Pioneer Hi-Bred, A DuPont Business; Prairie Plant Systems Inc.; The Procter and Gamble Company; The Scotts Miracle Gro Company; University of Alberta; and Viterra. The amount listed above does not include the "in kind" contributions from invited speakers that were able to obtain funds to pay for their expenses while at the 2010 annual meeting. The Development Committee would like to express special thanks to these donors because these contributions allow us to help fund the scientific program and other initiatives during our annual meeting.

**Submitted by the SIVB Business Office on behalf of Gregory C. Phillips,
Development Committee Chair
gphillips@astate.edu**

Education

The Education Committee in association with the Student Committee met at the last SIVB conference in St. Louis, MO and developed a three year plan. We intend to develop more student-focused programs; more workshops for educators; more communications using social networking tools; and ensuring that SIVB becomes

the leading source for biotechnology-related information particularly for K-12 and undergraduate educators (in vitro lab exercises for plant, animal and insect cultures). We also strategized how to develop a more interactive website that has information about members' locations, teaching and research interests. At this year's SIVB conference in Raleigh, NC, the Education Committee (in

collaboration with Burroughs Wellcome Fund) will be sponsoring a free interactive in vitro science workshop for high school and undergrad educators, June 4th from 10:00 - 3:30 pm. We will have demonstrations using available kits donated by several educational science companies. These kits will be raffled off at the end of the demonstrations to the participants. We look forward to all members of SIVB joining us at this workshop and attending all of the students' sponsored events.

In 2010, the Student Committee held one session during the joint SIVB/IAPB Meeting in June entitled "How to Get the Most Out of a Scientific Conference." This panel discussion was held on Tuesday, June 8 and was moderated by Richelle Monaghan. Also during the SIVB Annual Meeting, the two student committee co-chairs were elected: Sohail Akram, originally from Pakistan, and currently at the University of Missouri was elected to serve, as well as Jessica Rupp, from Kansas State University. As former chair, Denis Odokonyero completes his term, students attending the Student Affairs Committee meeting will have the opportunity to elect a new incoming co-chair to serve for the next two years.

This year the student committee has planned three events. The first will be a student networking symposium entitled "Writing and submitting a scientific paper." Students will have the opportunity to meet with a panel of six scientists. The second student organized session includes the student networking luncheon featuring seven SIVB members serving as roundtable leaders. The final event scheduled is an informal career expo.

**Margaret Young, Education Committee Chair
Mmyoung2@mail.ecsu.edu**

**Jessica Rupp, Student Committee Co-Chair
jrupp@ksu.edu**

**Sohail Akram, Student Committee Co-Chair
sohail_akram09@yahoo.com**

Laboratory Materials and Biosafety

The Laboratory Materials and Biosafety Committee (LMBC) provides a mechanism within the Society for In Vitro Biology (SIVB) to promote laboratory standards, biotechnology practices, laboratory materials, safety equipment, and facilities that constitute biosafety levels 1-4 associated with in vitro and biotechnology methodology. The goals of the LMBC are: 1) to provide an educational process and format to distribute information regarding potential hazards and risk assessment associated with: the cell culture process, the use and handling of biological agents, quality control of biomaterials, and updates on federal regulation pertinent to research, industry and clinical biotechnology applications; 2) to recommend laboratory practice, operation, or materials based on risk assessment of the agent/or material and the laboratory activity involved; and 3) to promote the interaction of committee members with national and international scientists, professional groups, and manufacturers regarding the design, processing, and use of material for in vitro and biotechnology methodology.

The LMBC committee members represent government, university/academia, private industry and include: Linda B. Jacobsen (chair); Sandra L. Schneider (co-chair), Research and Clinical Laboratory Systems; Walter Finkbeiner, University of California-San Francisco; Thomas Goodwin, Johnson Space Center, NASA; John Harbell, Mary Kay Inc.; John Masters, University College London, Institute of Urology-UK; Tohru Masui, JCRB Cell Bank, Division of Bioresources, National Institute of Biomedical Innovation, Osaka, Japan; Colette J. Rudd, Xenoport, Inc; Lynn Rutzky; William J. Smith, US Army Medical Research Institute of Chemical Defense; Glyn N. Stacey, National Institute for Biological Standards and Control-UK; and Alda Vidrich, University of Virginia Health Sciences Center.

The SIVB Laboratory Materials and Biosafety Committee



SIVB Outgoing President Todd Jones presents the Distinguished Service award to Dwight Tomes, Guy Smaghe, Peggy Ozias-Akins, and Paul Price.

is a forum to lead the discussion on setting industry standards and guidelines for world-wide compliance of cell line authentication and tissue engineered products. New endeavors include stringent toxicity assessment and continued vigilance of cell line identification resulting from emerging and advanced nanotechnology

**Sandra L Schneider, Laboratory and Biosafety Committee Co-Chair
drsandra@stic.net**

Long Range Planning

The Long Range Planning Committee (LRPC) is a standing committee of the Society and is chaired by the President-Elect of the Society. The Long Range Planning Committee is charged, as the name implies, with developing strategies for the long-term vitality of the SIVB.

The Long Range Planning Committee met and has developed an initial mechanism by which SIVB members can establish an "Endowment Fund" through our organization. In considering this mechanism, the committee felt it was important to keep the following in mind as this is developed:

- One that is simple
- One that we can "beta test" and improve with future versions
- One that is within the existing framework of the SIVB finance mechanism

A big "Thank You" goes to John Finer for providing the impetus for the Endowment Fund. The first of these funds is being established and will serve as our "beta test." This is the Roberta Smith Endowment Fund. This fund will be established within the current financial system (bank) that SIVB uses, but with a specific account name for this new Endowment Fund. The committee recommended that the dispersal of funds from each established Endowment Fund should be subject to the individual providing the initial monetary input. Please look for more information about the Roberta Smith Endowment Fund and other similar funds at our upcoming annual meeting.

David D. Songstad, Long Range Planning Committee Chair
davidsongstad@aol.com

Membership

As our membership numbers have grown smaller, we look to ways that we can retain those members who join the Society, but only keep their membership for one year when they attend the annual meeting. These members can become key participants in our organization and it is important to foster their interest and understanding of our organization and its value to the scientific community.

During the annual meetings, we usually add new members who take advantage of a discounted annual meeting registration/new membership rate. In 2010, we had fewer new members join the society as part of their registration to the annual meeting as the meeting was held jointly with IAPB and attendees did not have to become a SIVB member to receive the discounted meeting rates. We hope that in 2011, we will be able to retain some of our membership numbers as we will return to running our own meetings.

At the end of 2009, our membership was 579 members, which included: 98 Emeritus Members, 9 Honorary Members, 9 Life Members, 393 Regular Members, 63 Student Members and 7 Post Doctoral Members. At the end of 2010, our numbers dropped to 521 members, which included: 96 Emeritus Members, 9 Honorary Members, 9 Life Members, 331 Regular Members, 69 Student Members and 7 Post Doctoral Members. 70 of the 521 members in 2010 were new to the Society.

member recommends a person to join the SIVB as a regular member; SIVB contacts the potential member and offers them a \$10 discount to join the Society. If a member recommends 5 potential members and they all join, the SIVB member receives free registration to the upcoming SIVB Annual Meeting. It is our hope that continued participation in the SIVB programs will encourage our members to bring in new members and new members to become more involved in the SIVB in the future

We continue to encourage more student member participation. In 2010, we raised money to offer fellowships for students to attend the 2010 In Vitro Biology Meeting and have continued to raise funds to offer free registration and membership to students who wish to attend the 2011 In Vitro Biology Meeting. We also continue offering Student Awards and both Student and Post Doctoral Oral Presentation Competitions. These student members are the Society's future and should be recognized as such. Many student members join to participate in the annual meeting, and it is our hope that once they see the benefits of membership, they will be encouraged to continue with us as we head toward the future.

Contributed by Marietta Wheaton Ellis and John J. Finer,
Membership Committee Chair
finer.1@osu.edu



SIVB members enjoy the joint



Participants use the poster sessions to both exchange knowledge and socialize

In 2009, SIVB offered an incentive program to encourage members to return their 2010 membership renewals by December 31 to win a prize. This program was highly successful and the following members were announced as winners at the 2010 Joint Sections Social during the 2010 In Vitro Biology Meeting: 3rd place (\$50 gift card), Sharon Rosenthal; 2nd place (free membership program was successful and we offered it again in December of 2010. SIVB will be awarding prizes to the 2010 winners at the 2011 In Vitro Biology Meeting.

In 2010, we continued our Member-get-a-Member campaign. When an SIVB

and PBS Secretary. A Nomination Committee consisting of Todd Jones, Michael Fay and Fredy Altpeter has been formed and is seeking at least 2 candidates for each position. The slate is already filling with excellent candidates, but we still have a few more slots to fill. If you have a desire to serve your Society in an official capacity, or want to suggest a willing candidate, please contact one of the members of the Nominations Committee to volunteer.

Todd J. Jones, Nominating Committee Chair
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Nominating Committee

In 2011, the following Board, Section and Committee Chairs are up for re-election: President-Elect (IVACS member), Vice President, Secretary, Treasurer, Member-at-large (PBS) replacing Mark Jordan, Member-at-large (IVACS) replacing Elizabeth Roemer, Publications Chair, Public Policy Chair, Chair of Constitution and ByLaws Committee, Chair of Awards Committee, Chair of Education Committee, IVACS Chair, IVACS Co-Chair for Membership, IVACS Co-Chair for the Meeting Program, IVACS Secretary, PBS Chair, PBS Vice-Chair



SIVB/IAPB Gala Banquet

Program

The 2010 Society for In Vitro Biology (SIVB) meeting was held in conjunction with the International Association for Plant Biotechnology (IAPB) and was a solid success. The joint 2010 SIVB/IAPB meeting was held in Saint Louis in June. While SIVB registration numbers were down somewhat from the last joint meeting held in 2002, and significantly down from the last SIVB meeting held in 2009, careful planning and diligent fundraising left the Society in a strong position going into 2011. Tough economic times likely contributed in part to the overall reduction in registration for the joint meeting. The likelihood that

some meeting attendees are members of both organizations, SIVB and IAPB, and may have registered for the meeting through IAPB probably contributed to the lower SIVB registration numbers as compared to 2009. Fundraising from corporate sponsors and obtaining an almost \$50,000 grant from the National Science Foundation (NSF) helped deliver a solid meeting and leaves the SIVB in a strong position coming into the new year and looking forward to the 2011 meeting in Raleigh, North Carolina. The NSF grant was divided between SIVB and IAPB and was again used to support free student registrations; SIVB supported 43 student fellowships.

Accolades go to Todd Jones who really did the heavy lifting for the Plant Program; Todd served as the SIVB point person in interactions with the IAPB program committee and did a great job in representing SIVB interests. Many thanks and much credit also goes to Cindy Goodman for putting together a quality Animal Program.

The 2010 meeting included:

- Opening and closing remarks by Roger Beachy
- A tribute to Philip W. White by Indra Vasil
- 13 plenary lectures and wide range of topics ranging from the impacts of climate change to social acceptance of biotechnology
- 45 Concurrent Symposia
- 3 Evening Workshops
- Student and post doc oral and poster presentation competitions
- Over 250 Plant and Animal Posters

It's time to turn our attention to 2011 and a successful SIVB meeting to come in Raleigh. Thanks to 2011 Program Chair Cindy Goodman and Co-Chairs Kan Wang and Brad Upham, we have a fantastic Plant and Animal Program shaping up for the meeting to occur June 4-8. The Raleigh venue provides a unique and historic venue, with shopping, sporting events, museums, music and Broadway shows all within the park-like setting of the "City of Oaks." See you in Raleigh!

T. Michael Spencer, 2010 Program Committee Chair
michael.spencer@monsanto.com

Publications

This was an active year for the publications committee. We heartily thank all the authors for their manuscript submissions, the reviewers for their careful examination of the manuscripts and the associate editors and editors in chief for facilitating publication of these manuscripts. This year we renewed the contracts with Springer for publication of our journals. We also selected new editors for each journal to replace retiring editors Dwight Tomes and Denry Sato. Both journals have increased impact factors that we expect will improve even more in the next few years. Our online In Vitro Report continues to provide news to the members in a timely fashion.

In Vitro – Plant Report

Our objectives over the past three plus years have been to increase the number of review manuscripts based on topical subject matter in the discipline as we continue to emphasize novel scientific content of the manuscripts submitted to the journal. A special issue (Volume 45.3) devoted to biofuels edited by Drs. Lakshmanan and Songstad were published in 2010 in book form by Springer, entitled "Biofuels: Global Impact on Renewable Energy, Production Agriculture and Technological Advancements". The impact factor of the journal increased significantly to 0.853 (from 0.503) based on manuscripts published in 2009. A total of 70 manuscripts were published in volume 46 of which 20 were published in our sister journal IAPB (International Association of Plant Biotechnology). The number of downloads of specific manuscripts has increased substantially compared to previous years with the top five articles cited over the last 90 days showing downloads from approximately 400 to 950. All of these manuscripts were among the reviews from the special biofuels volume (45.3). Biodiversity is the highlighted subject matter of the most recent issue (47:1) consisting of 17 review articles edited by Prakash Lakshmanan, SIVB reviews editor, Barbara Reed and V. Sarasan, guest editors. In addition, issue 47.2 will contain invited papers highlighting subject areas central to the IAPB Congress which took place in St Louis, June 2010. Dr. Nigel Taylor the Editor of IAPB issues and I have worked closely together to insure timely publication of the different issues. Our support from Springer staff with the web based editor software and with the final publication process has been professional and excellent. Both journals are in transition, as the respective Editors-in-Chief (Dwight Tomes and Nigel Taylor) will be leaving their positions in 2011. We trust that the incoming Editors, John Finer for In Vitro – Plant and John Forster for IAPB, will enjoy the same level of support from our authors and respective societies.

In Vitro – Animal Report

(For the year 3/1/10 through 2/28/11)

The journal experienced a decrease (38.66%) in total submissions of new manuscripts over the comparable period last year (119 compared to 165 in 2009-2010) following three consecutive years of increased submissions. The numbers of submitted manuscripts for the past year compared to the prior year were: 82 regular papers (120 in 2009-2010), 32 Reports (39 in 2009-2010), 3 Reviews (3 in 2009-2010), 2 opinion Letters-to-the-Editor (3 in 2009-2010), and no book



Exhibitors took time during the meeting to share their new products with SIVB and IAPB members alike



Martie Wright and Mary Ann Lila take time to catch up during the Joint Sections Social.

reviews (0 in 2009-2010). Of the 119 submissions, 75 (63%) were accepted (73.5% acceptance rate), 27 (22.7%) were rejected, 3 (2.5%) was withdrawn, and 14 (11.8%) were still in review or revision.

In addition to the USA, 22 countries were represented in the submissions received in 2010/2011. Average time from receipt to first decision in the review process was 11.74 weeks compared to 7.76 weeks overall last year. All new submissions were received through the online system.

The *In Vitro – Animal* journal published 10 issues combined in 9 mailings. The journal is continuing to publish on schedule. The 2009 impact factor for IVA was 0.791. A significant proportion of submissions came from outside the US so there is an awareness of and a market for *In Vitro-Animal* beyond the US and north American research communities.

In Vitro – Animal continues to publish papers in traditional areas such as

cell line derivation and toxicology, but we are also receiving increasing numbers of submissions in the areas of adult and embryonic stem cell biology, tissue engineering, cell signaling,

and methods development for cell line characterization. In collaboration with the International Stem Cell Initiative, an international consortium of stem cell researchers, a special issue of *In Vitro – Animal* entitled “Novel human embryonic stem cell lines and related resources” containing 30 papers was published as the March/April issue in 2010.

In January 2011 after 5 years as Editor-in-Chief of *In Vitro – Animal* Dr. Denry Sato turned the job over to Dr. Tetsuji Okamoto of Hiroshima University. Dr. Okamoto has been a member of the SIVB for over 20 years, and he has served as an Associate Editor of *In Vitro – Animal* since 2006. Dr. Sato will assist Dr. Okamoto as Emeritus Editor-in-chief.

In Vitro Report

The *In Vitro Report* is the quarterly newsletter for the membership of the Society for In Vitro Biology which is published on the Society’s website (www.sivb.org). The co-editors are Michael Fay and Sylvia Mitchell who represent the *In Vitro Animal Cell Sciences (IVACS)* and *Plant Biotechnology* sections, respectively. The co-editors work closely with the Publications Manager, Michele Schultz, to facilitate the editorial and publication process. A major focus of the *In Vitro Report* is to promote the Society’s journals by publishing editor-selected Journal Highlights from *In Vitro Cellular and Developmental Biology – Animal* and *In Vitro Cellular and Developmental Biology – Plant*.

Additional content includes: The SIVB President’s Report; ExPlants; SciNews; Research and Education News; Updates on the SIVB annual meeting; New Members Welcome; and articles highlighting the award winners from the annual meeting. An ongoing goal of the *In Vitro Report* is to provide more information on career and professional development for student members of the Society, and information about workshops and funding opportunities related to in vitro research.

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Public Policy

The Public Policy Committee is a standing committee of the Society and is designed to aid its members and the general public to obtain a more informed understanding of in vitro biology and its research process and progress. The Committee is charged to aid the Board of the SIVB in their dealings with members of Congress and other governmental officials for the purpose of giving advice on funding priorities and other relevant matters. With the assistance of other associations the Public Policy Committee’s goal is to actively educate its members about current issues affecting the

scientific community and society as a whole. To assist the Society in this mission it is currently a member of the following associations that work with legislators to effect national and international

*In collaboration with the International Stem Cell Initiative...
 a special issue of In Vitro – Animal entitled “Novel human embryonic stem cell lines and related resources” containing
 30 papers was published*

scientific policy: AIBS, American Institute of Biological Sciences, provides a variety of public policy services for their members and the biological community at large; CAST, Council for Agricultural Science and Technology, assembles and communicates science-based information regionally, nationally, and internationally on fiber, food, natural and agricultural resources and environmental issues to its members including legislators, media, regulators, policy makers, private sector, and the general public; AAAS, America Association for the Advancement of Science, examines science-related questions of concern to world citizens and their governments including human rights and ecosystem protection, federal spending, ethics, and equity; IFER, International Foundation for Ethical Research, is a non-profit group that is dedicated to finding non-animal alternatives for scientific research. Mary Ann Lila is now the society’s CAST representative as Dave Songstad was elected to serve on the Executive Board of CAST. In 2007 we also joined COPUS, the Coalition on the Public Understanding of Science.

This year Public Policy had a number of actions. These included an action alert to call Congress to protect research funding, and to alert all members about upcoming budget cuts for Federal grants programs. In January of 2011 SIVB members were also alerted about making sure their research grants have straight forward lay summaries that focus on important and useful (as perceived by the lay public) descriptions in order to avoid a new version of the old golden fleece awards. The new Congress in its efforts to reduce the Federal budget has, for example, developed a searchable website of NSF awards for public scrutiny and potential elimination of funding.

In May 2010, a special appeal was made to all plant members and the Public Policy Committee also lent its support, to a public statement on behalf of Dr. Bustamante, an embattled plant scientist who has been convicted of providing scientific facts in a GM corn incident down in Peru. Public Policy believes that no scientist should be criminally punished for providing scientific facts.

Public Policy continued to support action on the issue of cell line cross-contamination. We applaud the SIVB Board of Directors for continuing to support efforts to control this challenge within the cell culture community.

One of our Public Policy student members, Patrick Arsenault, received his PhD in May 2010 and is now a voting member on the committee.

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REPRESENTATIVES OF THE SIVB

American Type Culture Collection

The issues of misidentification and cross-contamination of cell lines remains a major concern for the Cell Biology community. There are now methods capable of rapidly identifying human cell lines. In 2009, the ATCC Standards Development Organization formed an International Workgroup to develop a consensus standard to provide guidance on the use of STR profiling for authenticating human cell lines.

The workgroup is chaired by: John R.W. Masters, PhD, Professor of Experimental Pathology, Institute of Urology, University College London and Yvonne Reid, PhD, Collection Scientist, ATCC. The Standard; ASN-0002: Authentication of Human Cell Lines: Standardization of STR Profiling is in the final draft stages and will be released in 2011. The workgroup has had several publications on the benefits of using authenticated cell lines and the serious consequences of misidentified cell lines. The quality and validity of funded and published research should benefit greatly as a result of the reduction in frequency of use of misidentified human cells.

Yvonne Reid, ATCC Manager/Scientist
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Council for Agricultural Science and Technology

The Society for In Vitro Biology is a long-term member of CAST, which is a nonprofit 501 (C)(3) organization of scientific societies, nonprofit and trade organizations, and commercial companies charged with the task of proactively educating the non-science general public on relevant issues, such as agricultural technology, plant and animal sciences, and biotechnology. Like the other members of CAST, SIVB joined this organization because we are particularly concerned about communicating credible, science-backed information to legislators, regulators, the external media, and policymakers.

CAST produces and disseminates science-backed documents (white papers and commentaries) which are geared to helping inform the consumer and to interpret issues that are linked to the agricultural sciences, and may be misconstrued by the popular press. The 2010 Annual Meeting of the CAST Board of Directors and Board of Representatives took place in Sacramento, California, 5-8 October 2010. Guest presenters included A.G. Kawamura, California Secretary of Agriculture, and Neal Van Allen, Dean, UC Davis College of Ag and Environmental Science. The meeting included a tour and presentations at the new Robert Mondavi Institute for Wine and Food Science on the UC Davis campus.

CAST has commissioned an excellent series of videos and publications within the past year which are relevant to SIVB members in their roles as educators or spokespersons for in vitro biology and its scientific advances. A complete listing is available online: <http://www.cast-science.org/publications.asp>

Mary Ann Lila, CAST Representative
maryann_lila@ncsu.edu

International Association for Plant Biotechnology

I hope everyone was able to attend the IAPB meeting last year in St. Louis, MO. I hear it was quite the show. Unfortunately, circumstances did not allow me to attend but there are pictures from the Congress at <http://www.iapb2010.org/> for you to enjoy. Thank you to Dr. Roger Beachy and his Organizing Committee.

Plans are currently being drawn up for the upcoming 13th World Congress to be held June 2014 in Melbourne, Australia. For questions regarding the IAPB society, contact jutta.nagel@dpi.vic.gov.au. It would be a good idea for US IAPB members to inform your budget masters about this meeting now and then remind them periodically. The flight to Australia will be quite expensive but very well could be the trip of your lives! I've been to Brisbane and it was wonderful.

There is a tendency for some US IAPB members to drop their IAPB memberships in the years between the World Congresses. This is unfortunate. In the first place, membership is only \$45 per year and for that small amount you get two issues of In Vitro - Plant and online access to the articles in those issues. Moreover, I am trying to build up our reserves in order to provide travel awards in 2014 for students to attend the Congress in Melbourne. You can easily continue your IAPB membership when you renew your SIVB membership and I am working to make this even easier. Finally, I will soon have the ability to accept credit and debit cards for your membership.

I have recently moved to San Diego from Indiana. My new address is 5240 Fiore Terrace #J209, San Diego, CA 92122. My new cell # is 858-888-5714. Contact me at VonBekX@aol.com if you are not receiving your journals.

The International Association for Plant Biotechnology (IAPB) was founded in 1963. The primary activities of the IAPB have been to organize international congresses of plant tissue culture and biotechnology every four years, and to publish a newsletter/journal for its membership. The IAPB is the oldest and the largest international professional organization to represent plant biotechnology. It has more

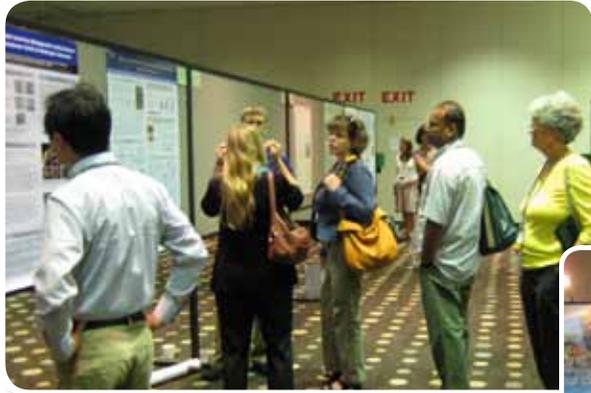
than 2,500 members in over 80 countries. Each year, members receive two issues of the journal In Vitro - Plant that are organized by an international team of Editors. Only IAPB members can receive these two special issues each year. Membership also includes electronic access.

Michael E. Horn,
US Correspondent, IAPB
VonBekX@aol.com



SIVB and IAPB members take time to get to know each other during the receptions

Images from the 2010 In Vitro Biology Meeting



See you at the
World Congress!



Don't miss your
chance to join us!

The World Congress is only held once every 4 years.

Please visit www.sivb.org/meetings.asp for the latest updates!

TREASURER'S SUMMARY REPORT

SOCIETY FOR IN VITRO BIOLOGY

**STATEMENTS OF FINANCIAL POSITION
DECEMBER 31, 2010 AND 2009**

ASSETS

	December 31, <u>2010</u>	December 31, <u>2009</u>
<u>Current Assets:</u>		
Cash	\$ 263,799	\$ 312,377
Accounts Receivable	18,982	27,696
Prepaid Expense	<u>32,410</u>	<u>29,450</u>
Total Current Assets	<u>315,191</u>	<u>369,523</u>
<u>Property and Equipment:</u>		
Furniture and Fixtures	161,657	161,657
Accumulated Depreciation	<u>(161,657)</u>	<u>(161,657)</u>
Total Property and Equipment	<u>-</u>	<u>-</u>
<u>Other Assets:</u>		
Investments	<u>102,894</u>	<u>-</u>
Total Other Assets	<u>102,894</u>	<u>-</u>
Total Assets	<u>\$ 418,085</u>	<u>\$ 369,523</u>

LIABILITIES AND NET ASSETS

<u>Current Liabilities:</u>		
Accounts Payable	\$ 2,163	\$ 1,909
Other Accrued Expenses	1,389	612
Deferred Dues and Subscriptions	<u>37,642</u>	<u>24,850</u>
Total Current Liabilities	<u>41,194</u>	<u>27,371</u>
<u>Long-Term Liabilities:</u>		
Deferred Dues - net of current	<u>-</u>	<u>574</u>
Total Long-Term Liabilities	<u>-</u>	<u>574</u>
Total Liabilities	<u>41,194</u>	<u>27,945</u>
<u>Net Assets:</u>		
Unrestricted	125,293	68,586
Temporarily restricted	<u>251,598</u>	<u>272,992</u>
Total Net Assets	<u>376,891</u>	<u>341,578</u>
Total Liabilities & Net Assets	<u>\$ 418,085</u>	<u>\$ 369,523</u>

TREASURER'S SUMMARY REPORT

SOCIETY FOR IN VITRO BIOLOGY

**STATEMENTS OF ACTIVITIES
FOR THE YEARS ENDED DECEMBER 31, 2010 AND 2009**

	<u>Unrestricted</u>	<u>Temporarily Restricted</u>	<u>Total</u>	December 31, 2009 <u>Total</u>
<u>Revenue:</u>				
In Vitro-Animal	\$ 104,437	\$ -	\$ 104,437	\$ 85,558
In Vitro-Plant	62,507		62,507	56,741
Newsletter	6,960	-	6,960	11,519
Meetings	96,478	35,418	131,896	207,252
Administrative	50,773	-	50,773	73,349
Other income	574	-	574	730
	<u>321,729</u>	<u>35,418</u>	<u>357,147</u>	<u>435,149</u>
<u>Program services:</u>				
In Vitro-Animal	11,445	-	11,445	7,880
In Vitro-Plant	12,736	-	12,736	11,171
Newsletter	-	-	-	218
Annual meeting	40,291	56,812	97,103	125,769
	<u>64,472</u>	<u>56,812</u>	<u>121,284</u>	<u>145,038</u>
<u>Supporting services:</u>				
Administrative	200,047	-	200,047	211,139
	<u>264,519</u>	<u>56,812</u>	<u>321,331</u>	<u>356,177</u>
Change in net assets before unrealized gain/(loss) on investments	57,210	(21,394)	35,816	78,972
Unrealized gain/(loss) in fair value of investments	(503)	-	(503)	(718)
Change in Net Assets	56,707	(21,394)	35,313	78,254
Net assets, January 1	68,586	272,992	341,578	263,324
Net assets, December 31	<u>\$ 125,293</u>	<u>\$ 251,598</u>	<u>\$ 376,891</u>	<u>\$ 341,578</u>