



**American Physiological Society
Gastrointestinal/Liver Section Newsletter
Fall 2007**



Greetings to all members of the Liver and GI section of APS. This fall newsletter contains important information pertaining to both EB2008 and our section awards for students, postdocs and new investigators. Last year we had a large number of applications for these awards and we anticipate that this year will be no different. So, please make sure your trainees get their applications in so that we can recognize these up and coming investigators in San Diego next year. Naturally, you are all preparing your abstracts for EB 2008, if you have not already done so. Last year's meeting in Washington was a great success and with Ron Ferraris' program committee again having put together an outstanding set of featured topics and symposia, EB2008 will be even better.

This time we will have no less than **five** Symposia and **three** Featured topics. These are listed below and now we need your abstracts to support this very ambitious and exciting program. Last year we had close to 100 abstracts, a marker which I expect to see well surpassed for San Diego.

The 2008 *Davenport lecturer* will be **Raj Goyal** from Harvard Medical School whose talk will be on the **Nitroergic Nervous System and its Role in the Gut**. He follows a long line of distinguished awardees and I know that his lecture will continue this tradition. Naturally, we will be holding our third annual combined dinner and business meeting. This has become one the 'must attend' functions of EB, so you will have to get your tickets as soon as they are released. Our guest speaker will be James Anderson from UNC and while he has a hard act to follow after John Cuppoletti's talk in 2007, I am sure that he is more than up to the task. So, I hope to see you all in San Diego, **April 5th - 9th, 2008**.

I must thank all the members of our section governance group for putting together this wonderful meeting and working so hard behind the scenes. In particular, I would like to welcome two new members to the steering committee: RK Rao and Susan Hagen. They are taking over from John Grider and Deb Rubin to whom we all owe a great debt for all their hard work on behalf of the section. I must also remind everyone that several of our awards and sponsorship for our dinner comes the very generous support of Takeda Pharmaceuticals.

See you all in San Diego.

Chris Cheeseman, Section Chair

IF YOU READ NOTHING ELSE...

- **ABSTRACT DEADLINE NOVEMBER 8**
- **OUR SECTION AWARDS ALL HAVE A DEC 10, 2007 DEADLINE, BUT DON'T WAIT UNTIL THE LAST MINUTE: SUBMIT THEM SOON AFTER GETTING YOUR ABSTRACT DONE !!!**
- **NOVEL DISEASE MODEL AWARDS HAVE NOV 12 DEADLINE**
- **OUR AWARD PROGRAM AND THE BANQUET HAVE GENEROUS SUPPORT FROM *TAKEDA PHARMACEUTICAL***

NEWSLETTER OUTLINE

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1. GI SECTION AWARDS FOR EB 2008

Awards for the GIL Section have been expanded, and are generously underwritten by Takeda Pharmaceutical. We are extremely grateful to Takeda for supporting the development and recognition of young scientists in GI and Liver research.

Our awards are described on the following pages. A full description of the awards with links to the application page can be found on the APS web site (www.the-aps.org/meetings/eb08/awards/gi.htm). Trainees at all levels and junior faculty are encouraged to apply for abstract-based awards for the work submitted to EB2008 (see below). In addition there are awards for research achievement to recognize outstanding investigators at various points in their careers. Note that the deadline for receipt of GI section award applications is Dec 10, 2007, one month past the EB2008 abstract deadline. We hope this will help people decompress their tasks around the abstract deadline, but don't forget to submit for an award !!!! We also are encouraging applications to the Novel Disease Model Award.

Abstract-Based Awards for EB2008:

The **Takeda Travel Awards of the APS Gastrointestinal & Liver Physiology Section** (monetary award for travel to EB2008 and reimbursement of the annual meeting advance registration fee) are designed to provide travel support and recognition to trainees and junior level faculty who are engaged in gastrointestinal and liver research. The awards are given based on competitive appraisal of abstracts submitted to the Experimental Biology meeting. Separate awards will recognize work done while enrolled as an undergraduate, doctoral/ medical student, work done during the first five years of postdoctoral or medical residency training, and work done as a junior level faculty who is within 10 years of having received a higher degree (Ph.D., M.D., or D.V.M.). The final distribution of awards among these categories will depend on the quality and number of applicants. To qualify for these awards, the applicant must be first author on an abstract submitted to a GIL section abstract descriptor for the Experimental Biology meeting, and either the applicant or sponsor (in the case of trainee awards) must be a member of APS. All applicants must provide a copy of their abstract for consideration, and junior faculty applicants must also provide a half-page statement of their research accomplishments. Awardees are recognized at the GIL Section Banquet and Business Meeting at the EB meeting. All application materials must be submitted online (www.the-aps.org/awardapps) by **December 10, 2007**. Questions should be directed to Linda Samuelson at: lcsam@umich.edu.

The **Liaison with Industry Committee Novel Disease Model Award** (\$500/graduate student; \$800 postdoctoral fellow; plus reimbursement of the annual meeting advance registration fee) is not a sectional award, but recognizes the graduate student and postdoctoral fellow submitting the best abstracts describing a novel disease model. The model can be *in vitro* or *in vivo* but should clearly emphasize the potential utility of the system for future research related to a disease process. The applicant does not have to be an APS member and there are no restrictions on how the award is spent. Applicants must provide a copy of their first-authored abstract. Awardees are recognized at the APS Business Meeting at the EB meeting. All application materials must be submitted online (www.the-aps.org/awardapps) by **November 12, 2007**.

Distinguished Scientist Awards:

The **APS Horace W. Davenport Distinguished Lectureship** (\$1,000 plus up to \$2,000 travel reimbursement to Experimental Biology and complimentary registration to the meeting and complimentary admission to the GIL Banquet at the EB meeting) is in honor of one of the most distinguished members of the Gastrointestinal & Liver Physiology Section and past president of the APS, Horace W. Davenport. This is the most prestigious award of the APS Gastrointestinal & Liver Physiology Section. The award recognizes distinguished lifetime achievement in gastrointestinal and liver physiological research, including accomplishments in research, teaching, training and activities within the APS. The ideal candidate will have made contributions whose implications extend beyond the boundaries of gastrointestinal and liver research interests. The Gastrointestinal & Liver Physiology Section Steering Committee chooses the recipient of this award. Awardees will deliver an honorary award lecture at EB and are recognized at the Gastrointestinal & Liver Physiology Section Banquet and Business Meeting at the EB meeting. Nominators must provide the candidate's curriculum vitae and a nomination letter summarizing the candidate's qualifications. All application materials for the 2009 award must be submitted online (www.the-aps.org/awardapps) by **December 10, 2007**. Questions should be directed to Chris Cheeseman, Section Chair, at: chris.cheeseman@ualberta.ca.

The **Takeda Distinguished Research Award of the APS Gastrointestinal & Liver Physiology Section** (\$1,500 and reimbursement of the annual meeting advance registration fee, and complimentary admission to the GIL Banquet at the EB meeting) recognizes an outstanding investigator who is internationally recognized for his/her contribution to research in areas represented by the GIL Section. Candidates are judged based on their publications and the content of nomination letters. Candidates can be nominated by regular members of APS or can self-nominate. This is not an abstract-based award but the awardee is expected to attend the EB meeting where the award is presented. Awardees are recognized at the GIL Section Banquet and Business meeting. All application materials must be submitted online (www.the-aps.org/awardapps) by **December 10, 2007**. Questions should be directed to Linda Samuelson at: lcsam@umich.edu.

The **Gastrointestinal & Liver Physiology Section New Investigator Award** (\$1,000 plus reimbursement of the annual meeting advance registration fee) recognizes an outstanding investigator in the early stages of his/her career. Candidates should be investigators who have made meritorious contributions to the areas represented by the GIL Section. They should not be above the rank of Assistant Professor or a comparable position in a research track at an academic institution or in industry (e.g. Scientist, Sr. Scientist, Research Investigator, etc.). They should receive nominations from at least two regular members of the APS. Candidates will be judged on their publications, how the publications relate to the GIL Section and evidence for independence and promise (grant funding, peer review activities, etc.). Although this is not an abstract-based award, awardees are expected to attend EB and make an oral or poster presentation. The candidate must be an APS member in good standing. Candidates must provide a curriculum vitae, 2 nomination letters from APS members, and 3 reprints. Awardees are recognized at the GIL Section Banquet and Business Meeting at the EB meeting. All application materials must be submitted online (www.the-aps.org/awardapps) by **December 10, 2007**. Questions should be directed to Linda Samuelson at: lcsam@umich.edu.

2. MAJOR EVENTS AT EB2008

CO-SPONSORED BY GASTROINTESTINAL AND LIVER SECTION OF APS



Davenport Distinguished Lecturer of the GI and Liver Section
Tuesday 4/8/08, 3:15-4:15 PM, Room 24

The Nitroergic Nervous System and its role in the Gut
Raj K. Goyal, M.D.
Harvard Medical School

EB2008 SYMPOSIA

Microbial Infection, Inflammation and Intestinal Transport

Room 27, Tuesday, 4/8/07, 8:00-10:00 AM

Organizers: Pradeep K. Dudeja, Didier Merlin

Genomic and Proteomics in Colon Cancer

Room 28A, Monday, 4/7/07, 10:30 AM-12:30 PM

Organizer: John Carethers (*Sponsored by Physiologic Genomics Group*)

Hepcidin Regulation of Iron Transport

ASN Room TBD, Sunday, 4/6/07, 10:30 AM-12:30 PM

Organizers: Marianne Wessling-Resnick, James Collin, Mitch Knutson (*Sponsored by Am. Soc Nutrition*)

Regulatory Mechanisms in Diseases of Epithelial Transport

Room 26, Sunday, 4/6/07, 8:00-10:00 AM

Organizers: Jerrold Turner, Asma Nusrat (*Sponsored by Cell Section*)

IBS and Chronic Constipation: Mechanisms and Novel Treatments

Room 25A, Monday, 4/7/07, 3:15-5:15 PM

Organizer: Shaila Basavappa (*sponsored by Liaison With Industry Group*)

EB2008 FEATURED TOPICS *

Molecular Regulators of the Ins and Outs at the Apical Membrane of GI Epithelial Cells

Featured speaker: John Forte

Room 28B, Monday, 4/7/07 8:00-10:00 AM

Organizers: Curtis Okamoto, Catherine Chew,

Bacterial-Intestinal Interaction

Featured speakers: Charles Bevins, Beth McCormick

Room 25C, Tuesday, 4/8/07, 10:30 AM-12:30 PM

Organizer: Andrew Gewirtz

Gut Hormones in the Regulation of Body Weight and Metabolism: Are We Really What We Eat?

Featured speakers: David Cummings, Lee Kaplan

Room 25B, Monday, 4/7/07, 3:15-5:15 PM

Organizer: Helen E. Raybould

* Featured topics are similar to *minisymposia* in that they are pre-formed (prior to the mailing of the Call for Abstracts) oral sessions including a session title, chairperson and not more than two *featured speakers*. Featured speakers may present work not represented by a submitted abstract. All other presentations are selected from the submitted abstracts for EB2008 that choose the associated topic category for their abstract that matches the title of the featured topic. All who select this topic category should be willing to present their research in both an oral and poster format if selected.

3. SUBMIT YOUR ABSTRACTS FOR EB2008 !

Descriptors for abstract submission to our section were updated. Please note that the first four descriptors are linked to the topics of our upcoming symposia and featured topics at the meeting. Select any of these descriptors and support your section! Select one of the first 4 and get increased exposure thru a chance to give an oral presentation or be part of a focused poster session related to the symposium.

FEATURED TOPICS

NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session

1144-APS Bacterial-intestinal interactions (A. Gewirtz)

1145-APS Gut hormones in the regulation of body weight and metabolism: are we really what we eat? (H.E. Raybould)

1146-APS Microbial infection, inflammation and intestinal transport (P.K. Dudeja, D. Merlin)

1147-APS Molecular regulators of the ins and outs at the apical membrane of GI epithelial cells (C. Okamoto, C. Chew)

POSTERS

1148-APS Enteric nervous system

1149-APS Gastric physiology and pathophysiology

1150-APS Genomics and proteomics of GI systems

1151-APS GI hormones, peptides and receptors

1152-APS Gastrointestinal motility

1153-APS Growth factors, proliferation and differentiation in the GI system

1154-APS Hepcidin and iron homeostasis

1155-APS Intestinal inflammation and pathophysiology

1156-APS Liver physiology and pathophysiology

1157-APS Metal ion transport

1158-APS Nutrient and electrolyte absorption

1159-APS Pancreas

4. DO YOU HAVE A HOT RESEARCH TOPIC YOU WOULD LIKE TO SEE HIGHLIGHTED NEXT YEAR?

Members of the GI and Liver Section are invited to submit potential symposium topics. If you are interested in organizing a symposium or featured topic, or would like to nominate a colleague to do so, please contact Ron Ferraris (ferraris@umdnj.edu).

5. FROM OUR APS LIAISON WITH INDUSTRY COMMITTEE

The LWIC is sponsoring two Symposia at EB2008, one of which is GI centric!!! They are entitled..

"IBS-C and Chronic Constipation: Mechanisms and Novel Treatments"

Monday, April 7th from 3:15 – 5:15 PM.

This symposium is organized by Shaila Basavappa, Gastrointestinal and Liver Physiology Section representative to LWIC. It will focus on two GI disorders that affect ~15-25% of the US population, Irritable Bowel Syndrome (IBS) and chronic idiopathic constipation. The proposed mechanisms underlying these conditions and potential treatments and their cellular pathways will be presented.

"Recent Advances in the Renin-Angiotensin-Aldosterone System for the Investigation and Treatment of Hypertension"

Sunday, April 6th from 8:00 – 10:00 AM.

This translational symposium is organized by Christine Schnackenberg, former W&EH Section representative to the LWIC. It will focus on recent molecular, cellular, whole-animal, and clinical advances in the Renin-Angiotensin-Aldosterone System.

Look for the full program on-line at www.eb2008.org.

The **Disease Model Award** will be granted to a graduate student and a postdoctoral fellow who submit the best abstracts at EB2008 that describe a novel model that has potential (or demonstrated) utility for future research related to a disease process. The model can be *in vitro* or *in vivo*. The award is \$500 for the graduate student and \$800 for the postdoctoral fellow and is sponsored by the LWIC. See section two of this newsletter for application details.

You're invited! Come meet and eat with your fellow physiologists who are working in the corporate sector. The 8th Annual Liaison With Industry Committee Mixer is on at EB2008. Look for details in the Spring newsletter.

6. MESSAGE TO TRAINEES

Dear GI&L Section Members and Trainees,

I am Jessica Clark, your new trainee representative on the GI&L Steering Committee. I would like to thank Christie Cefaratti, our former trainee representative, for all of her hard work and contributions to the section and the Trainee Advisory Committee (TAC)!

I encourage all of you to attend the **EB 2008 Symposium sponsored by the Trainee Advisory Committee, entitled "Marketing yourself on paper for academic positions."** This symposium will feature speakers that will discuss the components of the application packet for academic faculty positions. We hope this symposium will be a great resource for students and postdocs.

The TAC is responsible for investigating the needs of trainees, both pre-doctoral and post-doctoral, and for determining how the Society can provide necessary support and assistance. The Committee is continuing to make progress on several projects. Thanks to all of you who completed the Trainee Needs Assessment survey! The information will be used to design new programs to address the needs of our trainees. I will let you know where the results from the survey can be viewed once they are tabulated. The TAC is also continuing to develop the **Trainee Website** (www.the-aps.org/trainees) to include a wealth of resources for trainees. Please make sure you are subscribed to the **Trainee Listserv** so you can keep up-to-date with trainee related events, resources, awards/grants, and positions available. You can sign up for the listserv by clicking on the Trainee Newsletter link on the APS Trainee homepage.

Finally, please don't hesitate to contact me (clarkje@wustl.edu) if you have any questions, comments, or concerns regarding trainees in APS. I look forward to seeing you all at EB in San Diego!

Regards,
Jessica

7. JOIN AN APS COMMITTEE AND HELP STEER OUR SECTION AND SOCIETY!

Gastrointestinal and Liver Section Members are needed to serve on APS committees. This is a great way to participate in the governance of APS and to enrich the EB experience. Information about APS Committees, the nomination process, and forms can be obtained at <http://www.the-aps.org/committees/index.htm>.

Contact Jerry Turner (GIL Committee on Committee Representative) if you are interested in serving. There are also opportunities to participate in GIL Section governance. Please contact any one of your section representatives to let us know you are interested in service.

Nomination Process: Deadline January 15, 2008

Submit a Candidate Information Form and arrange for a colleague to submit an Endorsement Form on your behalf. Forms are available at <http://www.the-aps.org/committees/nominate.htm> . Email forms to: nominations@the-aps.org and jturner@bsd.uchicago.edu.

Committee vacancies starting January 1, 2009.

Open Positions on APS Committees

| | |
|--|--------------|
| Animal Care & Experimentation Committee | 3 |
| Awards Committee | 4 |
| Career Opportunities in Physiology Committee | 2 |
| Communications Committee | 3 |
| Ray G. Dags Committee | 1 |
| Education Committee | 3 |
| International Physiology Committee | 2 |
| Membership Committee | 3, 1 trainee |

| | |
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| Porter Physiology Development Committee | 2 |
| Public Affairs Committee | 3 |
| Publications Committee | 1 |
| Senior Physiologists | 2 |
| Women in Physiology Committee | 3, 1 trainee |

FASEB Committees

| | |
|--|---|
| Research Conference Advisory Committee | 1 |
|--|---|

Representatives To Other Organizations

| | |
|---|---|
| AAAS (Biology, Medicine, and Education) | 1 |
| Assoc. Chairs of Depts. of Physiology | 1 |
| US National Committee on Biomechanics | 1 |

8. GI SECTION BANQUET



We had more than 80 members of the section at Tony Cheung's Seafood Restaurant in Washington last year. Where were you? We had a sold out crowd of your colleagues, great food and drink.

Our section chair, Chris Cheeseman, led us thru the shortest business meeting in history, but we did pause long enough to present our section awards to all our trainees. Those awardees also got a free dinner by the way!

After dinner, John Cuppoletti told us about the mysteries of chloride channels and intestinal secretion, and put up with some good natured heckling from a happy and appreciative audience.

Everyone seems to enjoy these events, and we are planning another this year. We are

delighted to announce that the upcoming banquet is being generously supported by **Takeda Pharmaceutical**. Mark Clemens is planning the venue for this coming year, so plan on hearing more about this fun event in the coming months as we prepare for EB2008. We know one thing already, our after-dinner speaker will be **James Anderson** from UNC, who was last year's winner of the Takeda Distinguished Research Award. Buy your tickets early!

9. SECTION GOVERNANCE

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Term ends: 2007 *but extended to 2008*