

# UCSD Division of Gastroenterology Newsletter



## LETTER FROM THE INTERIM-CHIEF

The first few months of 2010 have been quite exciting for the UCSD GI Division. We held the 4<sup>th</sup> Annual Research Retreat focusing on Advanced Endoscopy and Clinical Research and were honored to have Dr. Ian Taylor of SUNY Downstate Brooklyn give the 6<sup>th</sup> Annual Isenberg lectureship. We also participated with Dr. Santiago Horgan, Professor of Surgery, in keeping UCSD as the leader in the field of NOTES research as we performed the first human completely endoscopic lower esophageal sphincter myotomy for achalasia in the United States. Now we are busy getting ready for our 12 oral presentations and numerous poster presentations at DDW in New Orleans.

We're looking forward to the development of the UCSD Inflammatory Bowel Disease center with the Department of Surgery (Drs. Mark Talamini, Sonia Ramamoorthy, and Lisa Mclemore) and the GI Division (Drs. Mike Docherty and Derek Patel). We hope to eventually combine the talents of our clinical faculty with the strengths of our research faculty, to provide the medical and surgical IBD treatment of the future. Please follow the progress of the center on our website at <http://health.ucsd.edu/specialties/gastro/inflammatory-bowel-disease/>.



June is always a proud month for us as our fellows graduate and enter the next stages of their careers. We are fortunate that two of our fellows, Dr. Andrew Bain and Dr. Raymond Tang, will stay on as Clinical Instructors and pursue advanced training in interventional endoscopy. Dr. Cristina Wiese will open up her solo practice in her home town of Thousand Oaks, California, where we know our loss is their community's gain. Best wishes to all of them.

Finally, on April 1, 2010 the UC San Diego Health System announced a \$75 million dollar gift from Joan and Irwin Jacobs to build a new 10 story hospital expansion of Thornton Hospital in La Jolla which will be completed in 2016. This hospital will include a new 5 room endoscopy unit, as well as more operating rooms, additional medical/surgery and ICU beds, and two floors dedicated to obstetrical services. This is in addition to the UCSD Sulpizio Cardiovascular Center which will open in mid 2011. Other buildings planned include a translational research building, faculty office space, parking structure, and additional outpatient facilities. The next decade will be very exciting at UCSD!

**Spring 2010**  
**Volume 5, Issue 2**

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**San Diego GI DDW Reception**  
**Tuesday, May 4, 2010**  
**6- 8pm**  
**Hermann-Grima Historic House**  
**Courtyard**  
**820 St. Louis Street**

**UCSD Inflammatory Bowel Disease Center**  
**Presents**  
**Controversies in Inflammatory Bowel Disease**  
**June 12, 2010**  
**7:30am - 12:30pm**  
**Goldberg Auditorium - Moores Cancer Center**  
**3855 Health Sciences Drive, La Jolla**

## Division of Gastroenterology

### 2010 Graduating Fellows

#### Andrew Bain, M.D.



- Internship and Residency in Internal Medicine, Emory University
- M.D., Georgetown University School of Medicine (Cum Laude)
- Bachelor of Arts, Chemistry, Colgate University (Magna Cum Laude)

As a UCSD GI fellow, I have valued the opportunity to experience many different hospital systems (UCSD Hillcrest, UCSD Thornton, VA, and Kaiser) with their own diverse patient populations and unique pathology. I discovered an interest in advanced endoscopic procedures and will be staying at UCSD next year for an advanced endoscopy 4th year fellowship.

#### Publications:

**Bain AJ**, Owens DJ, Savides TJ. Image of the month. Upper gastrointestinal bleeding caused by metastatic testicular chorio carcinoma. *Clin Gastroenterol Hepatol*. 2010 Apr;8(4):A22.

Loomba R, Wesley R, **Bain A**, Csako G, Pucino F. Role of fluoroquinolones in the primary prophylaxis of spontaneous bacterial peritonitis: meta-analysis. *Clin Gastroenterol Hepatol*. 2009 Apr;7(4):487-93

**Bain AJ**, Krinsky ML. Image of the month. Repair of an iatrogenic colonic perforation with endoclips. *Clin Gastroenterol Hepatol*. 2009 Jul;7(7):A28.

#### Raymond Tang, M.D.



- Internship and Residency in Internal Medicine, UC Los Angeles, David Geffen School of Medicine
- M.D., University of Southern California, Keck School of Medicine
- Bachelors of Science, Biochemistry, UC Los Angeles (Summa Cum Laude)

I have definitely enjoyed my time at UCSD. I think the GI Fellowship Training I have received at UCSD has provided me with balanced exposure to a wide variety of GI and Liver diseases. In addition, living in San Diego allows me to explore the beautiful city and take advantage of the great weather for outdoor activities. Regarding my career interest, I have always interested in learning more about pancreatobiliary diseases. I am excited about staying at UCSD to pursue my 4<sup>th</sup> year Advanced Endoscopy Training for July 2010 - June 2011.

During October 2009, I was offered the opportunity to do a 1-month overseas rotation at the Prince of Wales Hospital at the Chinese University of Hong Kong; where some of the landmark clinical trials on the use of IV PPI in peptic ulcer bleeding management were conducted. This rotation broadened my clinical experience as it allowed me to observe some GI/liver pathology more unique to Hong Kong and Southeast Asia, but otherwise less commonly encountered in the US. It was also educational to observe endoscopic procedures that are less routinely performed in the US (e.g., Endoscopic Mucosal Dissection) during my rotation in Hong Kong.

#### Cristina Wiese, M.D.



- Bachelors of Science, Biology, UC Los Angeles
- M.D., New York Medical College
- Internship and Residency in Internal Medicine, UC Los Angeles David Geffen School of Medicine

I have enjoyed my fellowship at UC San Diego immensely, and graduation is bringing mixed feelings. On the one hand, I am extremely sad to be leaving all my friends and mentors who have supported and taught me the last three years. However, it is the solid training I obtained here at UCSD that allows me to be excited about graduating and opening my own GI office. I will be practicing in Thousand Oaks California, with ties to Los Robles Medical Center.

## Division of Gastroenterology - DDW 2010 Oral Presentations\*

### Ernest N. Morial Convention Center, New Orleans

Arthur W. Yan, Johannes Brandl, Manolito Torralba, Derrick Fouts, Eckart Schott, Hide Tsukamoto, Karen E. Nelson, David A. Brenner, Bernd Schnabl. **Downregulation of anti-microbial proteins regenerating islet-derived 3 beta (Reg3b) and gamma (Reg3g) contributes to enteric dysbiosis in alcoholic liver disease.**

Sunday May 2, 2010  
9:00 AM-9:15 AM  
Room 352

Jimmy Y. Chow, Flang Nguyen, Mei Huang, John M. Carethers. **TGFβ Destabilizes PTEN Via Dephosphorylation to Promote Pancreatic Cancer Cell Motility.**

Sunday May 2, 2010  
2:30 PM-2:45 PM  
Room 283-285

Jennifer Cabral, Sharon Tracy, Judith Sporn, Jessica Gomez, Barbara Jung. **Preferential downstream signaling effects of activin and TGFβ in colon cancer cells.**

Sunday May 2, 2010  
3:00 PM-3:15 PM  
Room 283 - 285

Heekyung Chung, Jenny F. Lai, Joy Holmstrom, Dennis J. Young, and John M. Carethers. **Specific nucleotides that flank coding microsatellites of Activin Receptor 2 (ACVR2) determine exonic selectivity and control frameshift mutation rates in defective DNA mismatch repair (MMR).**

Sunday May 2, 2010  
3:15 -3:30 PM  
Room 283-285

Xiao Dong, Chase Wong, Christine Estrema, Biguang Tuo and Hui Dong. **Ca-Sensing receptor regulates Ca<sup>2+</sup>-mediated duodenal bicarbonate secretion via SOC and IKCa channels.**

Monday May 3, 2010  
2:15 PM-2:30 PM  
Room 346

Raymond S. Tang, Thomas J. Savides, Raman Muthusamy, Samuel B Ho, Nimeesh K. Shah, Lida Jafari Saraf, Erin Mackintosh, Ana Maria Crissien, Andrew Bain, Denise Kalmaz, Robert H. Lee. **Quality of Colonoscopy Withdrawal Technique and Variability in Adenoma Detection Rates: Is Technique More Important Than Time?**

Monday May 3, 2010  
2:45 PM-3:00 PM  
Ballroom C

*\*Underlined Name will be the Presenter*

## Division of Gastroenterology - DDW 2010 Oral Presentations\*

### Ernest N. Morial Convention Center, New Orleans

Erik J. Groessl, Samuel B. Ho, Lin Liu, Dana Riley, Fasiha Kanwal, Allen L.Gifford, Steven M. Asch. **National Patterns and Predictors of Liver Biopsy Use in Patients with Chronic Hepatitis C in the Department of Veterans Affairs .**

Tuesday May 4, 2010  
2:15 PM - 3:45 PM  
Room 352

Bikash Devaraj, Sonia Ramamoorthy, Robert S. Sandler, Temitope O. Keku, Aaron Lee, Linda Luo, Kathie McGuire, Betty L. Cabrera, Katsumi Miyai, John M. Carethers. **Relationship of EMAST and Microsatellite Instability Among Patients with Rectal Cancer.**

Wednesday May 5, 2010  
9:45 AM-10:00 AM  
Room 243

Mamie Dong, Ricki Bettencourt, Elizabeth Barrett-Connor, Rohit Loomba. **Alanine aminotransferase decreases with age.**

Wednesday May 5, 2010  
9:45 AM-10:00 AM  
Room 386/387

Su Jin Hong, Valmik Bhargava, Ravinder K Mittal. **Ultrasound Imaging Shows Distinct Differences in 3 Subtypes of Achalasia Esophagus Detected by High Resolution Manometry.**

Wednesday May 5, 2010  
10:30 AM-10:45 AM  
Room 298/299

Jeffrey Lee, Erik Groessl, Ted Ganiats, Samuel Ho. **Cost-effectiveness of a mailed educational reminder to increase colorectal cancer screening 2.**

Wednesday May 5, 2010  
10:45 AM-11:00 AM  
Room 280-282

Michael Scharl, Michael Fried, Declan F. McCole, Gerhard Rogler. **Protein tyrosine phosphatase N2 regulates TNF-induced signalling and cytokine secretion in T<sub>84</sub> intestinal epithelial cells.**

Wednesday May 5, 2010  
11:00 AM-11:15 AM  
Room 297

*\*Underlined Name will be the Presenter*

## Recent Division Publications

- Chang, T.L., Klepper, A., Ding, J., Garber, J., Rapista, A., Mosoian, A., Hubner, W., **Gutierrez J.**, Walewski, J., Abergel, J., Schiano, T. & Branch, A. 2010, Human Peritoneal Macrophages From Ascitic Fluid Can be Infected by a Broad Range of Human Immunodeficiency Virus Type 1 Isolates. *Journal of acquired immune deficiency syndromes*. Mar 1;53(3):292-302.
- Childs KE, Fishman SL, Constable C, **Gutierrez JA**, Wyatt, CM, Dieterich DT, Mullen MP, Branch AD. 2010. Inadequate Vitamin D Exacerbates Parathyroid Hormone Elevations in Tenofovir Users, AIDS Research and Human Retroviruses. Accepted 2010, (in press)
- Harmon GS**, Dumlao DS, Ng DT, **Barrett KE**, Dennis EA, **Dong H**, Glass CK. Pharmacological correction of a defect in PPAR $\gamma$  signaling ameliorates disease severity in Cfr-deficient mice. *Nature Medicine*, 16(3):313-318, 2010
- Harmon GS**, **Dong MH**. Colitis manifesting as diffuse polyposis. *J Gastroen Hepatol*, 2010 [in press]
- Hirata Y, Egea L, Dann SM, **Eckmann L**, **Kagnoff MF**. GM-CSF-facilitated dendritic cell recruitment and survival govern the intestinal mucosal response to a mouse enteric bacterial pathogen. *Cell Host Microbe*. 2010 Feb 18;7(2):151-63.
- Hoda MR, Scharl M, Keely SJ, **McCole DF**, **Barrett KE**. Apical leptin induces chloride secretion by intestinal epithelial cells and in a rat model of acute chemotherapy-induced colitis. *Am J Physiol Gastrointest Liver Physiol*. 2010 Mar 4.
- Tack J, **Carethers JM**. This Month in Gastroenterology. *Gastroenterology*. 2010 Mar 23.
- Hruz P, Dann SM, **Eckmann L**. STAT3 and its activators in intestinal defense and mucosal homeostasis. *Curr Opin Gastroenterol*. 2010 Mar;26(2):109-15.
- Lauwaet T, Andersen Y, Van de Ven L, **Eckmann L**, Gillin FD. Rapid detachment of Giardia lamblia trophozoites as a mechanism of antimicrobial action of the isoflavone formononetin. *J Antimicrob Chemother*. 2010 Mar;65(3):531-4.
- Choi LJ, Jenikova G, Hanson E, Spehlmann ME, Boehling NS, Kirstein SL, Bunday RA, Smith JR, Insel PA, **Eckmann L**. Coordinate down-regulation of adenylyl cyclase isoforms and stimulatory G protein (Gs) in intestinal epithelial cell differentiation. *J Biol Chem*. 2010 Feb 15.
- Barrett KE**. Building better bugs to deliver biologics in intestinal inflammation. *Gut*. 2010 Apr;59(4):427-8.
- Miura K, Kodama Y, Inokuchi S, **Schnabl B**, Aoyama T, Ohnishi H, Olefsky JM, **Brenner DA**, **Seki E**. Toll-like receptor 9 Promotes Steatohepatitis via Induction of Interleukin-1 $\beta$  in Mice. *Gastroenterology*. 2010 Mar 25.
- Campregher C, Honeder C, **Chung H**, **Carethers JM**, Gasche C. Mesalazine reduces mutations in transforming growth factor beta receptor II and activin type II receptor by improvement of replication fidelity in mononucleotide repeats. *Clin Cancer Res*. 2010 Mar 15;16(6):1950-6.
- Carethers JM**. Secondary Prevention of Colorectal Cancer: Is There an Optimal Follow-up for Patients with Colorectal Cancer? *Curr Colorectal Cancer Rep*. 2010 Jan;6(1):24-29.
- Garcia-Marcos M, **Ghosh P**, Ear J, Farquhar MG. A structural determinant that renders G $\alpha_i$  sensitive to activation by GIV/Girdin is required to promote cell migration. *J Biol Chem*. 2010 Feb 15.
- Luu Y, Junker W, Rachagani S, Das S, Batra SK, Heinrikson RL, Shekels LL, **Ho SB**. Human intestinal MUC17 mucin augments intestinal cell restitution and enhances healing of experimental colitis. *Int J Biochem Cell Biol*. 2010 Mar 6.
- Ho SB**, Luu Y, Shekels LL, Batra SK, Kandarian B, Evans DB, Zaworski PG, Wolfe CL, Heinrikson RL. Activity of recombinant cysteine-rich domain proteins derived from the membrane-bound MUC17/Muc3 family mucins. *Biochim Biophys Acta*. 2010 Mar 20.
- Sampath NJ, Bhargava V, **Mittal RK**. Genesis of Multi-Peaked Waves of the Esophagus: Repetitive Contractions or Motion Artifact? *Am J Physiol Gastrointest Liver Physiol*. 2010 Apr 1.
- Babaei A, Bhargava V, **Mittal RK**. Upper Esophageal Sphincter during Transient Lower Esophageal Sphincter Relaxation: Effects of Reflux Content & Posture. *Am J Physiol Gastrointest Liver Physiol*. 2010 Feb 18.
- Lee SY, **Savides TJ**. Management of anticoagulation before and after gastrointestinal endoscopy. *Am J Gastroenterol*. 2010 Mar;105(3):703.
- Bain AJ**, Owens DJ, **Savides TJ**. Image of the month. Upper gastrointestinal bleeding caused by metastatic testicular choriocarcinoma. *Clin Gastroenterol Hepatol*. 2010 Apr;8(4):A22.

## Awards and Honors

**Alan Hofmann, M.D., Professor Emeritus of Medicine**, has been elected to honorary membership in the German Society of Internal Medicine. The society is 120 years old. Previous honorary members include Robert Koch, Paul Ehrlich, and Wilhelm Roentgen.

**Thomas Savides, M.D., Professor of Clinical Medicine** was awarded by the UC San Diego Medical Center as their Attending Physician of the year for 2009 -2010.

**Julio Gutierrez, GI Fellow**, was awarded, as a Co-Investigator with Yuko Kono, M.D., Co-Investigator and PI David Wyles, M.D. the HIV-Associated Malignancy Pilot Grant for the project, 'Detecting Hepatocellular Carcinoma Related HCV Mutants by Ultra-deep Sequencing.'

**Bernd Schnabl, M.D., Assistant Adjunct Professor**, Received a \$20,000 sub-award from NIH/NIAAA/Southern California Research Center for Alcoholic Liver and Pancreatic Diseases and Cirrhosis for his research entitled, *Early bacterial translocation as mechanism for alcohol-induced liver fibrosis progression*. The project will run from January 2010 to December 2010.

**Raymond Tang, M.D., GI Fellow**, was awarded to the ASGE Video Editing Scholarship Program for Advanced Fellows for 2010-2011.

### Research Funding Opportunity:

The UCSD Division of Gastroenterology is pleased to announce two new research funding opportunities from the Jon Isenberg Foundation and The Digestive Disease Research Development Center (DDRDC). Both awards are available to junior faculty, advanced post-docs and fellows. Please visit our website at <http://gastro.ucsd.edu> for further information or contact Karen Kasser at [kkasser@ucsd.edu](mailto:kkasser@ucsd.edu)

Applications are due June 1, 2010.

## 2010 - 2013 Incoming GI Fellows



### Erica Boettcher, M.D.

- Will Join UCSD GI Fellowship Program-Clinical Track on July 1, 2010.
- Residency in Internal Medicine, UC San Diego
- M.D. Oregon Health Sciences University, School of Medicine
- Bachelor of Science, Biology (Minors in French & Chemistry), University of Oregon



### Brigid Boland, M.D.

- Will Join UCSD GI Fellowship Program- Research Track on July 1, 2010.
- Residency in Internal Medicine, UC San Diego
- M.D., UC San Francisco, School of Medicine
- Bachelor of Science, Molecular, Cellular, Developmental Biology, Yale University



### Imad Elkhatib, M.D.

- Will Join UCSD GI Fellowship Program-Clinical Track on July 1, 2010.
- Residency in Internal Medicine, Northwestern University, McGaw Memorial Hospital
- M.D., University of Cincinnati, College of Medicine
- Bachelor of Science, Biology, Ohio State University



### Amir Zarrinpar, M.D., Ph.D.

- Will Join UCSD GI Fellowship Program- Research Track on July 1, 2010.
- Residency in Internal Medicine, UC San Diego
- M.D., Ph.D., Neurosciences, UC San Diego
- Bachelor of Arts, Psychology & Biology, Harvard College

## Research Retreat - Endoscopic Research - January 16, 2010



## Undy 5000 - Raising Awareness of Colon Cancer - March 6, 2010



## Jon I. Isenberg Memorial Lecture - Dr. Ian Taylor - March 31, 2010



### Organization Statement

The UCSD GI Division will provide the best clinical care to those afflicted with gastrointestinal and liver diseases, investigate at the clinical and basic levels the best way to improve those diseases, and educate trainees on how to best approach the care of patients with those diseases. The UCSD GI Division will strive to be nationally recognized through its faculty as well as innovations that will improve the care of patients with gastrointestinal and liver diseases nationwide.

The UCSD GI Division was founded in 1970 by Henry Wheeler, M.D. who served as its first Division Chief. Later, Jon I. Isenberg, M.D. led the Division from 1979 to 1993, followed by C. Richard Boland, M.D. from 1995 to 2003, and John M. Carethers, M.D., From 2004 - 2009. The GI fellowship Training Program commenced in 1974 and the NIH Training Grant was initially funded in 1976. The Division has trained several local gastroenterologists in San Diego, as well as developed several academicians at University-based medical schools, including some with leadership and administrative positions.

### Main Campus - GI Academic Offices

Division of Gastroenterology  
9500 Gilman Drive - 0063  
La Jolla, CA 92093-0063  
Building UC303  
Tel:(858)534-2757  
Fax:(858) 534-3338

### UCSD GI Clinical Referral

General GI: (619) 543-2347  
Hepatology: (619) 543-6303  
Interventional Endoscopy: (858) 657-6882  
Motility: (619) 543-6834  
IBD: (619) 543-2347  
Celiac: (619) 543-2347

### VETERANS ADMINISTRATION MEDICAL CENTER

Gastroenterology Section (111D)  
3350 La Jolla Village Drive  
San Diego, CA 92161  
Tel: (858) 552-8585 x2631  
Fax: (858) 552-4327

### Donation Button

is now available on the GI Website  
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Information concerning this newsletter or requests for  
additional copies can be directed to Karen Kasser at  
[kkasser@ucsd.edu](mailto:kkasser@ucsd.edu) or (858) 534-3320

## Announcements



**Denise Kalmaz, M.D., Assistant Clinical Professor**, and her husband Roland Ahtel welcomed daughter, Alaina Grace, born March 15, 2010, 6lbs, 11 oz and 20 inches long. Congratulations!



**Samuel Ho, M.D., Professor of Medicine** and Julie Cobalt, Welcomed daughter, Eloisa, born April 17, 2010, 7.58lbs, 20 inches long. Congratulations!

