Summer, warm temperatures and vacations are upon us. Kids, or for some of us - grandkids, are out of school, the weather is nice and we go somewhere to recharge our personal battery. I just got back from a wonderful week in Colorado. Only three weeks removed from a freak 3 foot snowfall, the mountain areas were back in full swing for the things we like to do – Sightsee in Rocky Mountain National Park, fish in some mountain lakes and hiking on some of the many trails. But all that activity and altitude can result in some of the symptoms of altitude sickness – headache, shortness of breath, high pulse rate. These will usually resolve in a couple days as our bodies adjust. As the symptoms subside your activity tends to go up.

On one particular day we hiked up to Hanging Lake near Glenwood Springs. Going up 1000 feet in only 1.2 miles can really be felt. This was followed up with several more walks and resulted in a personal record number of steps on my Fitbit 20,607.

As I often do I compared the data with my iPhone and noted only 17,464 steps along with many other discrepancies.

(continued on page 4)
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DACC 2017 Committees

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Susan Haley (2018)
Joseph Sansone (2019)
Matthew Larkin (2020)
Doug Thudium*
*Exec Comm Rep

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Chris Perigard
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*Exec Comm Rep

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Jon Kimball (Chair)
Kay Criswell
Bob Emmons
Doug Neptun

Scientific Program & Long Range Planning
Doug Thudium
Amy Hudak
Kay Criswell
Lisa Manson

Membership
Volunteers Needed!

(Drückt: 1: 2017 Spring Symposium, 2: 2017 Annual Meeting Symposium,
The Division of Animal Clinical Chemistry (DACC) welcomes all persons interested in advancing clinical laboratory science in animals by promoting and encouraging the study, exchanging knowledge, and expanding and improving the practice of clinical laboratory science in animals.

Our division provides a forum for sharing of information relevant to methods of analysis, reference intervals for different animal models, selection of appropriate species for research, and feasibility of transferring relevance of the data to human medicine. The DACC supports the development of methods to detect specific target organ effects and cellular changes associated with xenobiotic agents and/or disease processes.

The Division publishes this newsletter and sponsors regional and national meetings as a means for promoting education, research, and service. We encourage members to pursue professional interactions with AACC as well as within other professional groups. Our membership represents scientists working in interdisciplinary fields, industry, academia, and governmental laboratories.

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David Zelmanovic - LabThruPut
Although these data generally tell me I was very active that day, we can observe different technologies giving different values. Is the 10-20% difference in steps significant? How about >50% variance on distance and number of floors/flights? The science geek in me immediately thought of the parallel we see every day in our jobs. We use different technologies to derive numbers that are used to assess the health of an animal. Values off an Advia will be slightly different than off a Sysmex instrument. This problem is magnified for immunoassays where ELISA kits from different manufacturers can produce very divergent sets of values for the same analyte. How close are we to the correct value and how confident are we in the quality of that value is something that we deal with every day in our jobs.

That brings me to the importance of the DACC in performing our work. There is no better group for discussing a problem, sharing methods or networking with colleagues. While online forums and emails are valuable means of sharing, I believe there is no substitute for face-to-face interaction with colleagues. Getting to know them and reaching a level of comfort to just pick up the phone and call them for input is incredibly valuable. The DACC offers two opportunities each year for in-person interaction.

After a successful and well-received Spring Meeting on Laboratory Support for Therapeutic Biologics where we had topics presented on Vaccines, Lipid nanoparticles, Biologic Development Strategy, Mass Spec, Chimeric Antigen Receptor T-cell technology and immunoassay problems, we can now turn our attention to the Annual Meeting events.

The AACC Annual meeting provides more opportunities for interactions with colleagues over several days. Starting with the reception following the Sunday Plenary session, followed by the Sysmex-sponsored DACC Lunch and Learn that our Chair-Elect Lisa Manson is organizing and the Siemens-sponsored DACC Awards Reception. Impromptu meetings at the posters or the EXPO or perhaps for dinner or sharing a drink are pretty common ways of networking. So please mark the dates July 30 - Aug 3rd on your calendar and join us at the Annual meeting in San Diego.

And finally, getting back to the fitness trackers, which one was most correct? My body didn’t care, it was just beat.

All the best,

Doug

Doug Thudium, DACC Chair

Photo from the 2017 Spring Siemens Multispecies Users Meeting
See more photos on page 10 and at:
https://daccphotos.shutterfly.com/pictures
## 2017 DACC Annual Meeting Program:

### SUNDAY – JULY 30, 2017

<table>
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<th>Time</th>
<th>Event</th>
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| 6:45 PM - 8:00 PM | **AACC Community Opening Mixer**  
Open to All Registrants. Enjoy Networking with DACC Members! |                                                                                             |

### TUESDAY - AUGUST 1, 2017

<table>
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<th>Time</th>
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| 9:00 AM - 11:00 AM | **DACC Executive Committee Meeting**  
Manchester Grand Hyatt San Diego - Room: Mission Beach C  
Open to All Members! Come Join in the Planning of DACC Activities! |                                                                                             |
| 12:30 PM - 3:00 PM | **DACC General Business Meeting and Lunch & Learn Session**  
Manchester Grand Hyatt San Diego - Room: Solana Beach AB  
**Generously Sponsored by Sysmex America**  
Please RSVP (yeses only) before July 21st to: Lisa.Manson@crl.com  
**Speakers:**  
- Nancy Everds - Hematology  
- Kay Criswell - Multi-species Bone Marrow Analysis  
- Charles Bull - Multi-species Sysmex vs Advia Correlation | Free Lunch!                                                                                     |

### WEDNESDAY - AUGUST 2, 2017

<table>
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<th>Time</th>
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| 9:30 AM - 5:00 PM | **Animal Clinical Chemistry Posters - Session 10**  
Conference Center  
Authors of Poster Numbers Beginning with the Letter “B” Will Be At Their Poster from 12:30 - 1:30 PM |                                                                                             |
A-015 MALAT1 is Associated with Poor Response to Oxaliplatin-Based Chemotherapy in Colorectal Cancer Patients and Promotes Chemoresistance through EZH2. P. Li1, C. Wang2. 1Qilu Hospital of Shandong University, Jinan, China, 2The Second Hospital of Shandong University, Jinan, China.

A-470 Linoleic Acid-Enriched Diet and Chronic Ethanol Exposure Activated Hepatic NLRP3 Inflammasome Contributing to Liver Inflammation and Injury in Mice. Y. Wang, Y. Liu, W. Feng, C. McClain, I. Kirpich. University of Louisville, Louisville, KY


B-002 Evaluation of Oxidized Linoleic Acid Metabolites in Rodent Models of Alcoholic Liver Disease. D. Warner1, A. Feldstein2, C. McClain1, I. Kirpich1. 1University of Louisville, Louisville, KY, 2University of California San Diego, San Diego, CA.

B-003 Developing a Policy/Protocol for Testing of non-Human and Forensic Samples by a Clinical Core Laboratory. G. Pomper1, S. Appt2, T. Register3, E. Palavecino1, M. Beatty1, P. Lantz2, J. McLemore1, E. Wilson2, D. Dennard1, E. Oliphant1, S. H. Wong1. 1Wake Forest School of Medicine, Pathology, Winston-Salem, NC


B-005 Comparison of Two Multispecies Hematology Analyzers Used in Nonclinical Drug Safety Studies: Sysmex XT-2000iV vs Siemens Advia 120. C. Bull, M. Bieraugel, Allergan, Irvine, CA


B-153 RNASE L Regulates the Expression of Fatty Acid Synthase in the Mouse Liver. R. Wei, A. Zhou. Cleveland State University, Cleveland, OH

B-331 Role of RNase L in Kidney. N.A. Alghamdi, A. Zhou. Cleveland State University, Cleveland, OH.

B-361 The Effect of Ethanol on Liver Function of Wistar Albino Rats. B.C. Esogwah1, G.R.E.E. Ana2, O.M. Bolaji2. 1University College Hospital, and 2University of Ibadan, Ibadan, Nigeria.

B-371 Novel 5-plex Panel for the Detection of Acute Kidney Injury with Improved Analytical Performance. C. Adamo1, T. Carlson1, E. McCole2, M. McGarve2, C. Richardson2, P. Fitzgerald1, J. Lamont1, A. Sethi1, 1Pacific Biomakers, Seattle, WA, 2Randox Teoranta, Dungloe, Ireland, 3Randox Laboratories, Crumlin, United Kingdom.

B-404 miR-26a and miR-15b Expression Profiles as a Potential Early Biomarker for Clopidogrel-Induced Hepatotoxicity. R.C.C. Freitas1, R.H. Bortolin1, L. Meneguello1, L. Tamborlin1, M.B. Lopes1, V.N. Silbiger1, R.D.C. Hirata1, M.H. Hirata1, A.D. Luchessi1, A.D. Luchessi1. 1Universidade Federal do Rio Grande do Norte, NATAL, Brazil, 2Universidade Estadual Paulista, Rio Claro, Brazil, 3Universidade Estadual de Campinas, Limeira, Brazil, 4Universidade de São Paulo, São Paulo, Brazil.
Nancy Evers DVM, Diplomate ACVP to Receive the 2017 DACC Award for Outstanding Contributions to Animal Clinical Chemistry

The Division of Animal Clinical Chemistry (DACC) Award for Outstanding Contributions to Animal Clinical Chemistry was established in 1992 and constitutes a major milestone for our professional society. This Award is now in its 25th year of recognizing significant contributions including teaching, training, practicing and research. This award acknowledges activities and achievements of a scientist who has significantly benefited and advanced the science, as well as enhanced the public awareness and understanding of the discipline of animal clinical laboratory medicine

The DACC Executive and Award Committees proudly announce Nancy E. Evers DVM, Diplomate ACVP as the 2017 recipient of this prestigious DACC Award. This recognition reflects Dr. Evers' extensive contributions in science, education and leadership in several areas of clinical pathology from the suppression of the immunological response that occurs during hemoparasitism and identifying virus-specific cell surface antigens, and the pathobiology of immune-complex related events, to stress-related findings in toxicology safety studies, hemato logic effects of biotherapeutics and clinical pathology indicators of hepatic injury in preclinical studies.

Dr. Evers has been an innovator and leader in veterinary clinical pathology with a wide diversity of valued contributions in animal clinical chemistry. Highly experienced and qualified, some of her accomplishments in research include publications on: the “Hematology of Laboratory Rodents: Mouse and Rat in chapter 110 of Hematology of Laboratory Animals in Schalm's Veterinary Hematology 6th Edition; as well as: “Unexpected thrombocytopenia and anemia in cynomolgus monkeys induced by a therapeutic human monoclonal antibody”, “Interpreting stress responses during routine toxicity studies: a review of the biology, impact, and assessment.” and “Off-target platelet activation in macaques unique to a therapeutic monoclonal antibody.”. Other notable contributions encompass the Pathobiology of Immune-Complex Related Events; the Cynomolgus Monkey Origin: Clinical Pathology and Immunotoxicology Considerations; Nonclinical Hemato logic Toxicity and its Relevance to Human Safety; the Clinical Pathology of Genetically Engineered Mice; Quantitative Determination of Rat Alkaline Phosphatase Isoenzymes by Semi-automated Procedures, and Selection and Interpretation of Clinical Pathology Indicators of Hepatic Injury in Preclinical Studies.

Dr. Evers is presently Director of Toxicology at Seattle Genetics. Prior to joining Seattle Genetics in 2017, Dr. Evers was Director of Pathology (2006-2017) and Clinical Pathology Lead (2011-2017) at Amgen Inc in South San Francisco, CA and Seattle, WA. She also served as Senior Scientist (1997-1999) and Principal Research Scientist (1999-2006) at DuPont Haskell Laboratory in Newark, DE. Dr. Evers had previously been engaged in preclinical drug safety assessment at Hoffmann-La Roche in Nutley, NJ in the Discovery Pathology Dept Biology as Associate Research Investigator (1994 to 1997) and in the Department of Toxicology and Pathology as Manager, Clinical Pathology Laboratory and Necropsy Services and Senior Scientist and Manager, Clinical Pathology Laboratory.

Before joining the pharmaceutical research and development arena, Dr. Evers obtained a BSc (1978) at the Massachusetts Institute of Technology, and her DVM (1986) at the University of Illinois (Urbana) College of Veterinary Medicine where she was a Mead-Johnson Pathology Fellow, followed by a Residency in Veterinary Clinical Pathology at Purdue University College of Veterinary Medicine. Dr. Evers has also served as Clinical Veterinarian in small animal clinical practices with medical, surgical, managerial, and administrative responsibilities in NJ at Ridgewood Veterinary Hospital and at Verona and Montclair Animal Hospitals, and at Bergh Memorial Hospital of the ASPCA, New York, NY.

Dr. Evers has authored or co-authored over 50 publications including 36 peer-reviewed manuscripts, 4 books/chapters, and 12 posters. As an invited expert she has presented on the various aspects of animal clinical chemistry over 49 times at scientific congresses and professional society meetings. She has served as editor on the Editorial Board and as Associate Editor of Toxicologic Pathology, 2006-2014, and as Editorial Board member for Veterinary Clinical Pathology. Nancy Evers, DVM has had many career distinctions including: Past-Chair ASVCP Development Committee (1987-2001); President-elect 2004-2005, President 2005-2006, Immediate Past-President 2006-2007 of the Society of Toxicologic Pathology (STP); Nominating Committee of the AACC Division of Animal Clinical Chemistry; the ACVP Strategy Task Force and Strategic Working Group, and Vice-Chair of the STP Membership Committee.

Dr. Evers has been and remains actively engaged in a number of major veterinary professional societies including the Society of Toxicologic Pathology (STP), American Society for Veterinary Clinical Pathology (ASVCP), the American College of Veterinary Pathologists (ACVP), and the AACC/DACC.

In summary, Dr. Evers’ entire career has been exemplary in her accomplishments and contributions to the practice of and education, teaching, training and advancing research in animal laboratory medicine. It is with great pleasure that the DACC Executive and Awards Committees announce Dr. Nancy E. Evers, DVM, DACVP as the 2017 recipient for the DACC Award for Outstanding Contributions to Animal Clinical Chemistry.

~ Jon P. Kimball, PhD, Chair, DACC Awards Committee
The DACC Needs YOU!

Members Are Needed to Run for Office and or Volunteer to Serve the Division in the Following Capacities:

**Elected Office**
- Candidate for Chair-Elect
- Candidate for Secretary
- Candidate for Nominating Committee Member

**Volunteer Positions Available**
- Membership Committee

Your Participation in OUR Division is Vital to Ensure Continued Quality of the DACC’s Business and Educational Activities

You Should Consider Running for Chair-Elect

The position of Chair-Elect is always the most difficult to recruit candidates to run for election. Universally, individuals who have served in the succeeding positions of Chair-Elect, Chair and Past-Chair of the DACC have agreed that it has been a great growth experience both personally and professionally. The high degree of continuing engagement in the DACC by those who have held these positions provides a pool of talent to ease the new officer into the responsibilities of the position. Most previous Chair-Elects have come into the position without previous experience at leading this type of organization, but with the help of others quickly mastered the position. Being Chair-Elect does require an extra measure of effort and time commitment from the individual over a three year period, but if you have benefited from the DACC meetings, newsletter, listserv, or personal contacts you should ask yourself:

Is it time to give back to the organization? How would my scientific community be impacted if there were no DACC?

**Top Ten Reasons to Run for Chair-Elect:**
- Work with a great group of individuals committed to the field of Animal Clinical Chemistry
- Opportunity to interact with the top leaders in the field of Clinical Chemistry
- Gain valuable contacts throughout the scientific community
- Gain experience in setting up scientific sessions in connection with Division & AACC Annual meetings
- Interact with colleagues from industry and academia to further DACC goals
- Gain a greater understanding of and visibility in your own organization as you interact with potential speakers and management
- Gain experience running an organization that encompasses individuals from many career paths
- Impact the scientific direction in the field of Animal Clinical Chemistry
- Add to the long history of scientific excellence for the DACC
- Give back to an organization that has enriched your career
Fun Facts About San Diego

- In San Diego, it’s illegal to shoot jackrabbits from the back of a streetcar
- With 130 breweries, San Diego County, has been called the “Craft Beer Capital of America”
- San Diego’s cloudiest months of the year are dubbed ‘May-Gray’ and ‘June-Gloom’
- The top employer in the city is the United States Navy
- The previous ‘San Diego’ Chargers have never won a Super Bowl
- San Diego is home to one of the largest oceanographic museums in the United States, the Birch Aquarium at Scripps Institute of Oceanography
- The Hotel Del Coronado is the country’s largest wooden structure, and is 128 years old
- San Diego is home to the world’s oldest sailing ship, The Star of India
- In 1867 San Diego land was selling for 27 cents an acre
- The first drive-in restaurant in the United States was opened in San Diego by the man who later founded Jack in the Box in 1951
- San Diego imports 168 million gallons of water a day. That’s enough, if put into water bottles, to circle the earth more than one and a quarter times (most of it must be used to make beer!)
- San Diego County produces the most avocados in the United States
- The first person to drive across the Coronado bridge was Ronald Reagan in 1969
- WD-40 was invented in San Diego in 1953
- San Diego airport is the busiest single runway airport in the United States
- San Diego’s average year-round temperature is 70 degrees

Make Your Plans NOW to Attend DACC Events at the AACC Annual Meeting

DACC Annual Scientific Meeting & Division Programs

DACC Executive Committee Meeting

DACC General Business Meeting and Lunch & Learn Session

DACC Award for Outstanding Contributions to Animal Clinical Chemistry Award Presentation Reception and Mixer supported by Siemens Healthineers

Animal Clinical Chemistry Poster Session
Photos from the 2017 Spring Meeting
See more photos at: https://daccphotos.shutterfly.com/pictures
The Membership of the DACC Extends a HUGE THANK YOU to

**Sysmex America**
for Hosting the DACC Meet the Speakers Reception on April 27
and to

**MERCK & Co. Inc.**
for Hosting the DACC Spring Symposium on April 28 at their West Point, PA Location

All DACC Committees Are Seeking Members to Join
Every Aspect of the DACC Depends on the Volunteerism of People Like YOU!