

Newsletter Spring 2016

AMERICAN CHEMICAL SOCIETY DIVISION OF CARBOHYDRATE CHEMISTRY



CARBOHYDRATES IN THE NEWS

CONGRATULATIONS TO DR. GEERT-JAN BOONS ON RECEIVING THE AURTUR C. COPE SCHOLAR AWARD!



Dr. Geert-Jan Boons, Distinguished Professor in Biochemical Sciences at the Complex Carbohydrate Research Center and The University of Georgia, has received a 2016 Arthur C. Cope Scholar Award from the American Chemical Society for seminal contributions to glycoscience by developing novel methods for oligosaccharide assembly, preparation of important glycoconjugates, and their use in biological studies.

Dr. Boons received an M.Sc. in Chemistry and a Ph.D. in Synthetic Carbohydrate Chemistry from the

State University of Leiden in The Netherlands under the direction of Dr. Jacques van Boom. Dr. Boons completed a postdoctoral fellow at Imperial College, London, and the University of Cambridge in the research group of Dr. Steven Ley before joining the CCRC. Research in the Boons group currently focuses on the synthesis and biological functions of complex carbohydrates and glycoconjugates including the recent design, synthesis, and immunological evaluation of three-component vaccine candidate with the potential to serve as a vaccine for many types of epithelial cancer. Dr. Boons is also the recipient of the Claude S. Hudson Award (2015), ICS Roy Whistler Award (2014), the Carbohydrate Research Award for Creativity in Carbohydrate Science by the European Carbohydrate Association (2003) as well as the H.S. Isbell award (2004) from the CARB Division.

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CANADIAN GLYCOMICS NETWORK ANNOUNCES NEW TRAINING INITIATIVES



GlycoNet Trainee Association (GTA) Executive Committee. (L-R) Tianlin Guo (University of Alberta), Omar El-Halfawy (McMaster University), Perrin Baker (SickKids Research Institute), Lisa Willis (University of Toronto), François LeMauff (McGill University), Christian Lizak (University of British Columbia), Ryan Snitynsky (GlycoNet).

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FUTURE NEWSLETTERS

The Carbohydrate Division Newsletter is published twice a year, just before the two annual National ACS meetings. If you have items for inclusion in future please send the information to:

Secretary/Newsletter Editor

Steve Sucheck

steve.sucheck@utoledo.edu

The Canadian Glycomics Network (GlycoNet), announced three new programs for trainees:

- The Research Exchange Program will provide support for trainees working on multi-investigator projects to gain new skills and experience in an academic or government lab outside of their home city.
- GlycoNet and Mitacs are working together to support Canadian industrial internships through the Mitacs Accelerate program.
- Finally, talented undergraduate students will be encouraged to pursue research in the glycomics area through the implementation of Summer Awards for Undergraduate Students.

The ubiquity of carbohydrates in the natural world allows glycomics to be an excellent gateway for high school students to explore the STEM areas. Resources created by teachers in British Columbia and Ontario are now available on the GlycoNet website, distributed freely for classroom use. For more information visit: <http://www.canadianglycomics.ca/>

UNITED KINGDOM GLYCOSCINCE NETWORK ANNOUNCES PROOF OF CONCEPT FUNDS



Supported by the UK Government, IBCarb is a growing network of glycoscientists from academia and industry whose aim is to develop and release Glycoscience Tools for Biotechnology and Bioenergy. The network supports meetings and events, as well as Academic-Industry research collaborations to advance UK glycoscience and to enable the translation of academic expertise to industrial glycobiotechnology. IBCarb is led by [Professor Sabine Flitsch](#) (University of Manchester) and [Professor Rob Field](#) (John Innes Centre) and is one of 13 Networks in Industrial Biotechnology and Bioenergy (NIBB) which have been funded by the BBSRC. To find out more contact the IBCarb Network Manager: claire.doherty@manchester.ac.uk or visit www.ibcarb.com. You can also follow on Twitter @ibcarb

IBCarb PoC funding call now open:

- Applications are invited for Proof of Concept Funds (£10K – £100K) to support Academic-Industry partnerships that focus on strategic areas of glyco biotechnology as covered by IBCarb themes and remits. This is an open call and we will consider applications in each of our themes: Tools, Renewables (materials, chemical and energy), Food, Health and Societal Impact.

KUDOS

Congratulations to Dr. James C. Paulson on receiving the Melville L. Wolfrom Award Award!



Dr. James C. Paulson, Professor and Chair of the Department of Cell and Molecular Biology at The Scripps Research Institute (TSRI), La Jolla, CA, has received the 2016 Melville L. Wolfrom Award from the American Chemical Society for his work in the field of Carbohydrate Chemistry. Dr. Paulson received his B.S. from MacMurray College in Chemistry/Biochemistry, and an M.S. and Ph.D. in Biochemistry from the University of Illinois at Champaign-Urbana. Dr. Paulson completed a postdoctoral fellowship at Duke University Medical Center, before joining the UCLA School of Medicine as an Assistant

Professor. After moving through the ranks he transitioned to industry from 1990-1999 holding positions at Cytel Corporation as Vice President, Chief Scientific Officer, General Manager (Glytec Division), and Member of the Board of Directors. He joined TSRI as a Professor in 1999. From 2014-2015 he was President and CEO of TSRI. Research in the Paulson Group centers on elucidating the roles of siglec receptors in immune function, and defining the biochemical basis for how the interaction with their carbohydrate ligands modulate their function. **Dr. Paulson will present a lecture on his work at the 251st ACS National Meeting to be held in San Diego, CA March 13, 2016.**

Congratulations to Dr. Mark Nitz on receiving the 2016 Horace S. Isbell Award



Dr. Mark Nitz, Professor at University of Toronto, received the 2016 Horace S. Isbell Award from the American Chemical Society for his work on glycosaminoglycan (GAG) chemistry and biology. Nitz earned his Ph.D. from the University of Alberta under Dr. David Bundle and completed a postdoctoral fellowship with Dr. Barbara Imperiali at the Massachusetts Institute of Technology. His work is focused on using organic synthesis and enzymes coupled to state-of-the-art biophysical techniques such as fluorescence, NMR, mass spectrometry, and microcalorimetry to creatively assemble new tools for studying biology. **Nitz will present a lecture on his work at the 251st ACS National Meeting to be held in San Diego, CA March 13, 2016.**

Congratulations Dr. Xing Chen on receiving the David Y. Gin Young Investigator Award!



Dr. Xing Chen, Professor at Peking University, was recently awarded the David Y. Gin Young Investigator Award for his work on "Chemical tools for probing glycosylation dynamics in vivo". Dr. Chen obtained his Ph.D. in Chemistry from The University of California, Berkeley in 2007 under Dr. Caroline Bertozzi, where his research focused on chemical biology and bionanotechnology. After completing postdoctoral work at Harvard Medical School with Dr. Timothy A. Springer in the field of structural biology and immunology, he joined Peking University in 2010. His work is focused on studying glycosylation in protein quality control and immunology. He uses the techniques of chemistry, biology, and nanoscience as tools to study and manipulate glycosylation in living systems. **Dr. Chen will present a lecture on his work at the 251st ACS National Meeting to be held in San Diego, CA March 13, 2016.**

ANNOUNCEMENTS

International Carbohydrate Symposium Update

The next ICS will be in New Orleans, July 17-21, 2016, just over four months away. These meetings have been called “**the most important events in carbohydrate chemistry and biochemistry**”, and New Orleans is one of the most exciting places to have a meeting. CARB and CELL will be represented at the meeting using this event in lieu of Fall programming at the ACS national meeting in Philadelphia. The meeting will cover Synthesis, Glycomedicine, Glycopharmacology, Structure, Polysaccharides, Utilization, Molecular Recognition, Biofuels, Glycomaterials, Chemical Glycobiology, Glycoinformatics, the Glycome, and Carbohydrate Enzymology.

The meeting opens Sunday afternoon with the R. L. Whistler and Young Researcher Award Lectures, and the first of eight Plenary speakers, followed by a reception. Besides the outstanding international Plenary and over 30 Keynote speakers there will be some 200 contributed oral presentations, two posters sessions, and a vendor exhibition. Contributions from academia, government, and industry are welcome. The program is open for submissions using the ACS's Meeting Abstracts Programming System (MAPS); abstract submissions are due by May 2. The final program summary will be published in Chemical and Engineering News (C&EN) in the summer with the on-line program available June 13.

Keeping with tradition, ICS-2016 will include several cultural and entertainment events designed to give you a feel for this exciting city. There will be a Cultural Evening on Tuesday with an educational concert at the St. Louis Cathedral featuring the excellent National Historic Park Service's Jazz Band and the dynamic Shades of Praise Gospel Choir who have performed at the New Orleans famous Jazzfest.

The technical programming will break at lunchtime on Wednesday so that attendees can participate in one or more different organized swamp, plantation, or ghost tours. Cruise on an authentic steamboat, or see nighttime views of New Orleans during the New Orleans at Night tour that includes several bars. The organizers have arranged for two special, space-limited tours at: the Turtle Cove Wetlands Research Center in the Manchac Swamp or the Domino Sugar Refinery where more than 3 million kg of cane sugar are refined daily. These two special tours have firm limits of 24 and 50 persons respectively so early booking is recommended. City tours will also be offered on the Sunday prior to the meeting as well as Wednesday afternoon. More information on tours can be found on our website. There are so many things to do that you may want to take advantage of our special deal on the hotel rates and extend your stay, either before or afterwards.

The closing event will be a banquet at Mardi Gras World Thursday evening, including a walk through the huge warehouse where floats are constructed, a video history, and preliminary reception overlooking the Mississippi River. All technical sessions are planned for the New Orleans Marriott; get your reservation early for a room with the best view over the French Quarter and other nearby attractions. Limited student registrations at reduced price are available (printed registration required).

Important links:

Main web site: www.ics-2016.org

Plenary and Keynote Speakers: See the list at the main web site, Scientific Program

Hotel registration through ICS receives free wireless Internet: see Hotel Information on the main web site.

Meeting registration: see Abstracts / Registration.

Meeting-associated tours: see Events.

Additional details regarding this event can be found in the Meeting section of the Newsletter

Dr. Gavin Miller joins Keele University, UK as an Assistant Professor



Gavin's research interests are in the area of making chemical tools for applications in glycoscience. He is concerned with understanding fundamental glycosaminoglycan-mediated biological signaling processes and in exploring uncharted biosynthetic pathways with *P. aeruginosa*. His approach involves the design and synthesis of mimetic oligosaccharides and sugar nucleotide derivatives.

Prior to taking up his current position Gavin completed his PhD and Post-Doctoral work at the University of Manchester, UK with John Gardiner; synthesizing multivalent carbohydrate ligands and completing the chemical synthesis of a variety of heparan sulfate oligosaccharides. His current webpage can be found here: <http://www.keele.ac.uk/chemistry/staff/gavinmiller/>

Call for Nominations: ACS Fellows

The window for nominating ACS Fellows opened Saturday, February 01 and closes on April 01 at 11:59 PDT. The Division of Carbohydrate Chemistry can nominate up to two candidates. Please consider nominating a colleague for the 2016 Fellows program. Information detailing the program as well as the instructions for nominating candidates can be found at the following address: <http://www.acs.org/content/acs/en/funding-and-awards/fellows.html>

Although any ACS member can submit nominations, support from the Division will help an individual nomination carry more weight. Therefore, we kindly request that you send your suggestions to the Division Secretary at steve.sucheck@gmail.com. Nominations will be collected and shared with the Executive Committee. Please send your nominations by March 10th

Calling all Members in the Baltimore-Washington Area

Members in the greater Baltimore-Washington area interested in glycobiology may want to join the Baltimore-Washington Glycobiology Interest Group. Please see the following website for more details: <http://www.hopkinsmedicine.org/schnaar/gig.htm>

Glycan Notation Standardized

It was recently reported in the January 4th 2016 issue of C&E News that Carbohydrate chemists and glycobiologists have agreed on an expanded and standardized symbol nomenclature based mostly on the Essentials notation (Glycobiology 2015, DOI: 10.1093/glycob/cwv091). The new convention has been described as a major step for Glycobiology. Details about the agreement can be found here <http://glycob.oxfordjournals.org/content/25/12/1323.long>

J. Rettenmaier, formerly Sun Opta Ingredients, Announces their Rice Hull Fiber Granted a Letter of No Questions from FDA, Ingredient Recognized as GRAS

Last September FDA granted a Letter of No Objection to the self-affirmed GRAS notification from J. Rettenmaier USA (formerly SunOpta Ingredients) in regards to a novel food ingredient derived from rice hulls. The product (commercialized under the name VITACEL Rice Fiber 310) is > 90% Total Dietary Fiber (TDF) in dry basis. It is also low in ash (< 4%), a critical property since raw rice hulls are notoriously high in ash (20% w/w as is, mostly SiO₂). In terms of chemical species, this product is 16% Lignin, 51% Cellulose, 25% Hemicellulose, and it has low-to-moderate water holding capacity. "This product is a great tool for food manufacturers to increase dietary fiber in gluten-free products", said [Ramon Gonzalez](#), PhD, Director of R&D at J. Rettenmaier USA, "these products are usually low in fiber because the traditional fiber ingredients available (oat, wheat, barley fibers) are not considered gluten-free".

Further information: <http://www.accessdata.fda.gov/scripts/fdcc/index.cfm?set=GRASNotices&id=478>

CARB Division Award Banquet at San Diego ACS Meeting

During the ACS National Meeting in San Diego next month, our division will celebrate the accomplishments of our three divisional award winners:

Melville L. Wolfrom Award – Dr. James C. Paulson, the Scripps Research Institute

Horace S. Isbell Award – Dr. Mark Nitz, University of Toronto

David Y. Gin Young Investigator Award – Dr. Xing Chen, Peking University

Following the award symposia, there will be an Award Banquet, which will be a great opportunity to congratulate our winners and to network with other colleagues.

Date: Monday, March 14th, 2016

Time: 6:30 pm – 9:30 pm

Location:

Rockin' Baja Lobster at Gaslamp Quarter (within 10 minute walk from the Convention Center)

310 5th Avenue

San Diego, CA 92101

Tel: 619-234-6333

Price: \$60 per ticket

Tickets for the banquet are available online when you register through ACS. If you purchase a ticket online, no further actions are needed. We will have your name on a list, and you can bring your confirmation notice as a back-up. However, many have had difficulty locating the online banquet information through ACS registration site. If that is the case and you would like to attend, please email Xuefei Huang (xuefei@chemistry.msu.edu) to reserve ticket(s). Xuefei will accept cash in San Diego for payment. Please note that the number of tickets is limited. Contact xuefei@chemistry.msu.edu if you need further information

Looking for Sweet Pictures

CARB webmaster, Dr. Peter Andreana, is looking for recent CARB meeting related photos to enhance the website. If you have anything appropriate, please email them to peter.andreana@utoledo.edu

Advertising

If you are interested in advertising through the Carbohydrate Newsletter please email steve.sucheck@utoledo.edu for advertising rates.

Changing email

Email addresses are updated monthly through www.acs.org please keep your email address up to date in your ACS profile in order to continue receiving important division updates.

Carbohydrate Division Membership

Please help keep the Carbohydrate division of the American Chemicals Society strong by encouraging your students and colleagues to join the Carbohydrate division. Recruit a colleague today! Registration information can be found here: <http://carb.sites.acs.org/>

Membership is **free** of charge for the first year and \$12.50 per year thereafter; \$7.00 for students.

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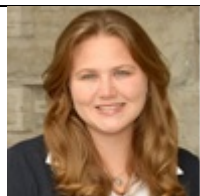
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UPCOMING MEETINGS

(Click on a graphic to visit a meeting or sponsor's website)

For more information, visit <http://carb.sites.acs.org/meetings.htm>

251st ACS NATIONAL MEETING

Computers in Chemistry

San Diego, California; Dates: March 13-17

The CARB program for the 251st ACS National Meeting in San Diego, California has been published. Please support the Carbohydrate Division by attending these symposia:

Sunday, March 13, 2016

Morning

-Wolfrom Award Symposium

Afternoon

-Isbell Award and Gin New Investigator Award

Monday, March 14, 2016

Morning and Afternoon

- Glycosylases: Inhibition & Therapeutic Applications

**Sci-Mix (8:00pm-10:00pm)

Tuesday, March 15, 2016

Morning and Afternoon

- Carbohydrate Research at Predominantly Undergraduate Institutions

**General Posters (7:00pm-9:00pm)

Wednesday, March 16, 2016

Morning and Afternoon

- Click Chemistry in Carbohydrate, Materials Science & Biomedicine: Symposium in honor of Professor Sharpless's 75th Birthday

Morning

- From mAb to ADCs: Tailored Antibodies & - Dedicated Chemistry Technologies for Site Specific ADCs

Thursday, March 17, 2016

Morning

- Click Chemistry in Carbohydrate, Materials Science & Biomedicine: Symposium in honor of Professor Sharpless's 75th Birthday

For the full program and separates, please email the Division Secretary, Prof. Steve Sucheck at steve.sucheck@utoledo.edu

INTERNATIONAL CARBOHYDRATE SYMPOSIUM 2016



The 28th International Carbohydrate Symposium will be held at the Marriott Hotel, French Quarter, in New Orleans July 17-22, 2016, with extensive involvement of CARB Division. Al French, who chaired CARB in the past, is the Chair, and Zbigniew Witczak is Vice Chair. Members of the Scientific Committee include Geert-Jan Boons, Mary Cloninger, Alexei Demchenko, Laura Kiessling, Marie Pierre Laborie, Kelly Moremen, James Paulson and Sheila Murphy, Program Chair. Other familiar names involved with the meeting include Jim BeMiller, Xuefei Huang, Anthony Serianni, and John and Sharon Vercellotti.

The Louisiana Section and both the CARB and CELL Divisions will help sponsor the event, and ACS Conference Management will be providing much of the infrastructure. The meetings have been held in the USA four times, most recently in San Diego in 1998. The most recent meeting was in Bangalore, India, and the 2012 and 2010 meetings were held in Madrid and Tokyo. The January timing of the Bangalore meeting was unusual, but the Tokyo and Madrid meetings each had almost 1000 attendees. In New Orleans, nine plenary lectures plus the Whistler Award talk (a \$20,000 prize in 2014) are planned. There will also be some 200 other lectures in parallel sessions, plus as many posters as are acceptable. Subjects will include, but are not limited to, Synthesis, Glycomedicine, Glycopharmacology, Structure, Polysaccharides, Utilization, Molecular Recognition, Biofuels, Glycomaterials, Chemical Glycobiology, Glycoinformatics, the Glycome, and Carbohydrate Enzymology. Besides the "world class" lectures, there will be a social program with an opening reception, cultural night and a banquet in Mardi Gras World. There will be an accompanying persons program, and Wednesday afternoon is free so attendees can take optional tours of nearby attractions such as plantation homes, swamps and some technically interesting places as well.

New Orleans is always a great venue for a meeting and we hope you will put this on your list of must-attend events.

Glycobiotechnology 2016, Manchester



Glycobiotechnology will be held in Manchester 4-5th April 2016.

This exciting high profile 2-day event will showcase the successes and achievements of IBCarb network members as they reach the mid-way point of the network. IBCarb aims to host over 100 professionals, academics and students working in the area of glycobiotechnology. Come along to find out the latest developments in glycobiotechnology and hear about future opportunities.

Activities will include:

- Keynote talks from world-leading international researchers
- Updates on IBCarb funded academia-industry projects
- Industry and technology expert profile talks from a range of sectors
- Opportunities for networking and consortia building

Confirmed key note speakers:

- Markus Aebi, ETH; D
- Dan Higazi, MedImmune
- Mike Morris, Waters
- Serge Perez, CNRS
- Arthur Ragauskas, GeorgiaTech
- Pauline Rudd, NIBRT
- Henrik Scheller, University of California

Industry talks:

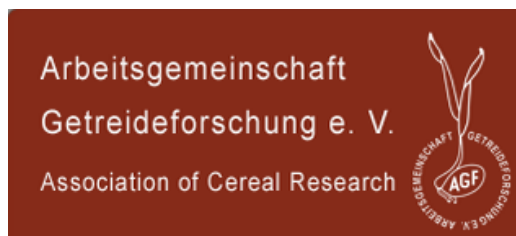
- Croda
- Dextra
- GlycoMar
- GSK
- Ludger
- Mars
- Qlyco

Accommodation will be provided for all IBCarb members. Please indicate when prompted during the registration if you will require accommodation.

Travel bursaries of up to £200 are available for PhDs and PDRAs attending this event. Visit the website for details on how to apply.

To find out more and register visit the [eventbrite website](#) page.

Travel Bursaries for Early Stage Researchers – Travel bursaries of up to £200 are available for PhDs and Post Docs to attend IBCarb events. Please contact the Network Manager (claire.doherty@manchester.ac.uk) before the event you wish to attend with the event details, a CV and a letter of support from your supervisor or line manager. Applicants must be IBCarb network members. You will be reimbursed after the event on submission of a travel claim form and all travel receipts/tickets.



The 67th annual Starch Convention will be organized in Detmold, Germany on April 13 and 14, 2016. The convention deals with all aspects of starch research including food and non-food applications. More information can be found using the link: <http://www.agfdt.de/en/>

Canadian Glycomics Symposium 2016



For the past 11 years, Canadian researchers in the field of glycomics have attended the National Carbohydrate Symposium, which attracted 150 participants from around the globe. In 2015, with the creation of the Canadian Glycomics Network, the National Carbohydrate Symposium will be transformed into the Canadian Glycomics Symposium, which will be the premier North American meeting for researchers in the field of glycomics.

The 2016 symposium will bring together nearly all Canadian glycomics researchers, as well as international researchers in the field. We expect to welcome more than 200 researchers, trainees, and stakeholders in the fields of glycomics, biotechnology and pharmaceuticals. The meeting will serve as an exciting opportunity to glimpse the frontiers of knowledge in the emerging field of glycomics, with ample opportunities for professional development and networking. The Symposium will feature presentations from notable national and international experts in carbohydrate science, as well as an open forum for young scientists to highlight their research.

The First Annual Canadian Glycomics Symposium will be held in Banff, Alberta at the Banff Park Lodge. Visitors from Canada and beyond will get the chance to experience one of Canada's treasures: the splendid Canadian Rockies.

Preceding the Symposium, the GlycoNet Annual General Meeting will take place from Monday, May 16 until noon on Wednesday, May 18. During this time GlycoNet investigators will participate in an evaluation of the Network's scientific program with invited guests in a closed-door meeting, while Network trainees will have ample time for networking with their peers and developing some new skills in professional development workshops. See the [Schedule](#) page for more details.

XXII International Round Table on Nucleosides, Nucleotides and Nucleic Acids



On behalf of the organizing committee and of the IS3NA Society, we are pleased to invite you to **register and submit abstract** (<http://www.paris-irt2016.org/#online-registration>) for oral or poster presentation to the **XXII International Round Table on Nucleosides, Nucleotides and Nucleic Acids, which will be held in Paris France on July 18-22, 2016**. The congress, jointly organized by french researchers from Institut Pasteur, Université d'Orléans and Université Paris-Descartes, together with the International Society of Nucleosides, Nucleotides and Nucleic Acids, will take place at the Institut Pasteur Conference Center in the heart of Paris, at one of the best season of the city.

The 2016 XXII IRT aims to put at the forefront the latest developments in innovation-driven nucleos(t)ide and oligonucleotide chemistry both in academia and industry, dealing with the new challenges of our century. XXII IRT will have the main scientific topics on:

- Approved-drugs: from bench to bedside
- Anti-cancer, anti-infective and other biologically active nucleos(t)ides
- Innovation-driven nucleos(t)ide chemistry
- Nucleotide signaling molecules
- Synthesis and structure of nucleic acids
- Oligonucleotides for therapeutic applications and biotechnology
- Biochemistry of nucleosides and nucleic acids

Our young(er) colleagues (Faculty, Post-doctoral fellows, PhD students) are especially welcome to showcase their research (poster and oral presentations) and ideas, and to take advantage of this unique networking opportunity.

We recommend all participants to arrange their accommodation in Paris as early as possible. July is a high event season in Paris, the rates may be higher and hotels will be booked early. We suggest you also to join the IS3NA in order to attend the conference at a discounted rate.

For more information on the conference, please visit the conference homepage: <http://www.paris-irt2016.org/>

We warmly welcome all interested researchers to participate in this conference and we look forward to meeting you in Paris.

Sincerely yours,

The Organizing Committee and the Président of IS3NA

Pr LA Agrofoglio - CNRS UMR 7311 - Université d'Orléans (Fr)

Pr M Etheve-Quellejeu - CNRS UMR 8601- Université Paris-Descartes (Fr)

Dr S Pochet - CNRS UMR 3523 - Instiut Pasteur

Dr V Roy - CNRS UMR 7311 - Université d'Orléans (Fr)

Dr. KL Seley-Radtke, University of Maryland, (USA)

We are proud to announce the following invited speakers:

Prof. A. Aartsma-Rus, Leiden University Medical Center, The Netherlands

Prof. S. Balasubramanian, Dpt Chemistry, University of Cambridge, Cambridge, UK

Prof. T. Carell, Dpt für Chemie, LMU München, Germany

Dr J. Deval, Alios BioPharma, San Francisco (CA), USA

Prof. C. Drennan, Massachusetts Institute of Technology, Cambridge (MA), USA

Dr. V. Gabelica, Institut Europeen de Chimie et Biologie, Pessac, France

Dr. H.M. Guo, School of Chemistry & Chemical Engineering, Henan Normal University, Henan, China

Prof. K.A. Jacobson, Laboratory of Bioorganic Chemistry, NIDDK, National Institutes of Health, Bethesda (MD), USA

Dr. Z. Janeba, Targeted Analogs of Nucleic Acid Components, Institute of Organic Chemistry and Biochemistry ASCR, Prague, Czech Republic

Prof. N.W. Luedtke, Dpt of Chemistry, University of Zurich, Switzerland

Prof. C. Mathé, IBMM, Université de Montpellier, France

Prof. G. Mayer, University of Bonn, Life & Medical Sciences Institute, Bonn, Germany

Prof. R. Micura, Institute of Organic Chemistry, Leopold Franzens University, Innsbruck, Austria

Prof. F. Romesberg, Dpt of Chemistry, The Scripps Research Institute, La Jolla (CA), USA

Prof. R.F. Schinazi, Laboratory of Biochemical Pharmacology, Emory School of Medicine, Emory University, Atlanta (GA), USA

Prof. H. Sleiman, Dpt of Chemistry, McGill University, Montreal, Canada

More than 20 short talks will be selected among the abstracts submitted to the meeting.

252th ACS NATIONAL MEETING

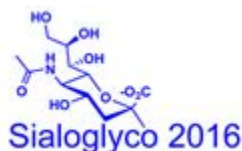
There will be no CARB programing for the 252nd ACS National Meeting in Philadelphia, Pennsylvania to avoid conflicting with the I.C.S. 2016

MIDWEST CARBOHYDRATE AND GLYCOBIOLOGY SYMPOSIUM



The 12th Annual Midwest Carbohydrate and Glycobiology Symposium (2016 MCGS) will be held at Central Michigan University, October, 2016 (tentative), organized by Dr. Benjamin Swarts. Approximately 100-150 people, including faculty, postdoc, graduate and undergraduate students from academic institutes in the Midwest and Canada are currently planning to attend. Please consider registering and attending. Detailed information about the meeting will be announced later this spring.

Sialoglyco2016 Registration Open



Sialoglyco 2016
November 14 -17th
Santa Barbara, California (USA)

You are invited to join the Sialoglyco 2016 conference, which will be held in Santa Barbara, CA from November 14-17, 2016. This biennial meeting on the chemistry and biology of sialic acids dates back to 1985, and it is the first time it will be held in the United States. We have an outstanding group of internationally recognized plenary and invited speakers, and will select additional speakers from submitted abstracts. The beautiful venue for this meeting is the Fess Parker Resort in Santa Barbara on the Pacific coast flanked by the beach, mountains and world-renowned wine country.

Registration is now open. For more information please visit our website <http://glycomics.scripps.edu/Sialoglyco/Sialoglyco2016.html>. Sialoglyco2016 will have three days of scientific sessions with one afternoon free to join a winery tour or explore Santa Barbara on your own, and will close on Thursday, November 17th with a dinner banquet. For those of you who are attending the 2016 meeting of the International Society for Glycobiology in New Orleans November 19-22, we have scheduled the meeting to end in time to attend both meetings.

Look forward to seeing you there!

Organizers and hosts:
Jim Paulson & Jamey Marth

Meeting Coordinators:
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