

Society for Microbial Ecology and Disease

Executive Board: President: Andrew B. Onderdonk; Past-President: Marika Mikelsaar;

President-Elect: Elisa Bertazzoni-Minelli; Secretary: Veronica Lazar; Treasurer: Eugenia Bezirtzoglou;

Councillors: Sandrine Claus, Reet Mändar, Leda Quercia Vieira, Alojz Bomba,

Wendy Garrett, Athanasios Alexopoulos

SOMED NEWSLETTER

Society for Microbial Ecology and Disease

Summer 2013

Letter from the President

These are exciting times for those of us interested in the human microbiome and the role that microbial communities play in health and disease. Traditionally, it has been scientists trained as microbiologists that have been the major force behind new observations and research related to the human microbiome. This is no longer the case as we recognize the research and interests of a broad array of biologic disciplines ranging from immunology to systems biology. While some microbiologists may find this a disturbing invasion of their research world, it is in fact an acknowledgement of the important early work of microbiologists that has convinced the rest of the biologic science community that the interactions between humans and microorganisms is an essential part of our development and survival. Recent work by immunologists, working closely with microbiologists has shown that the intestinal microbiome is essential for the development of the human immune response. Similarly, observations by those interested in reproductive biology have demonstrated the protective role of certain members of the vaginal microbiome against potentially pathogenic species and their ability to down regulate the inflammatory process. Studies of the oral microbiome have led to a better understanding of periodontal disease and has identified members of the bacterial community that serve as indicators for both healthy and diseased tissues. In the 1970's when Clostridium difficile was identified as the causative agent of antibiotic associated colitis, largely due to work in our laboratory in Boston, we also recognized that recurrent disease occurred in about 20% of patients. I remember well discussions about the best way to reconstitute the intestinal microbiome with other scientists and the universal revulsion when it was suggested that the best way to reconstitute the gastrointestinal (GI) microbiome

would be to take intestinal contents from a healthy GI microbiome and transplant this to the affected patients. Today, we find that after years of trials with various probiotics, antibiotic regimens and alternative therapies, that fecal transplantation is a highly effective method for reconstituting the intestinal microbiome in patients with recurrent C. difficile associated disease. Trials of this therapeutic approach for other inflammatory disorders are ongoing at a number of institutions. On a personal note, I have just completed a thirty day course of IV antibiotic therapy for a serious neurologic infection and as part of this therapy it was recommended that I use probiotics before, during and after antibiotic treatment in order to avoid the problems that often occur with long term broad spectrum antibiotic therapy. Clearly, probiotics have become part of mainstream clinical medicine, a role that they rightfully deserve.

Dear Colleagues and Friends,

the letter from our President has outlined the general characteristics of our Society, updated the main issues on the relationship between microbial communities and host, and presented the challenges that lie ahead.

SOMED 36th International Congress will be held in September, in spite of the complicated financial world and reductions in funding for research. On behalf of the SOMED Council and Organizing Committee I warmly invite you to join in Kosiče on 23th to 26th September 2013. This international meeting will review and update recent progress in key areas of post-genomics research in biology and medicine, as well as future developments in basic research, clinical studies, and industrial applications. It is our hope that the meeting offers the opportunity to develop our knowledge of the complexity of microbial ecology and disease and the possibility of microbiota

We have made great strides in bringing microbial ecology to the forefront of scientific research. However, there is much to be done to advance our knowledge of the interactions between humans and microbes. We need to work closely with other scientists from different disciplines to maximize our understanding at the molecular level of the interactions between host and microbes. We need to listen carefully to each other so that we can leverage all of the information available to us as we continue our exploration of the human microbiome. In Kosice this September we have an opportunity to extend this dialogue among the many scientific disciplines that will be represented meeting and to continue these at this conversations when we meet in Chicago in June of 2014 at a joint meeting of the ASA and SOMED. I encourage all of you to enthusiastically embrace these meetings and to participate in this exciting dialogue.

Andy Onderdonk,

President

modulation. It provides a good opportunity participant for each to exchange information, to dialogue and to connect people directly with other by multidisciplinary approach. Not only do you benefit from scientific exchanges during the formal activities, but also networking with colleagues with a mixture of backgrounds encourages new research ideas and innovative solutions.

I look forward to the wide attendance and fruitful results. I hope to see many delegates in Kosiče!

Kind regards,

Elisa Bertazzoni,

President - Elect

Verona, 17 July 2013

Upcoming SOMED meeting 2013:

The 36th International Congress of the Society for Microbial Ecology and Diseases – SOMED 2013 CONGRESS - will be held between 24th-26th September 2013

in Kosice (Slovakia), European Capital of Culture 2013.

Focus areas are current advances in clinical microbiology, dietary modulation of the GIT ecosystem, the effect of antibiotics on microbial ecology, host microbe interactions and the role of biofilms in health and disease.

More information with the hyperlink

http://www.somed2013.org/

Organising Secretariat: Organising Secretariat -

SOMED2013CONGRESS;

phone: +421 918 707371; fax: +421 41 4000123

e-mail: info@somed2013.org; www.somed2013.org;

Person of contact: Alojz Bomba DVM, DrSc., Institute of Experimental Medicine, Faculty of Medicine,

Pavol Jozef Safarik University in Kosice, Trieda SNP 1, 040 11 Kosice, Slovak Republic tel.: +421 55 64 24 606; fax: +421 55 64 20 253,

mobile: +421 905 947 032



The program of the 36th International Congress of the Society for Microbial Ecology and Disease SOMED CONGRESS, the 24th – 26th September 2013:

Day 1 24.9.2013

10:00 10:40 Opening speech **SESSION 1**

10:45 11:15 Bomba, A.

The Role of Gut Microflora in Pathogenesis of Chronic Disease and Possibilities of its Modulation in their Prevention

SESSION 2

14:00 14:30 *Haller, D.*Dietary Factors in the Regulation of Chronic Intestinal Inflammation
14:30 15:00 *Shenderov, A.*

SESSION 3

15:45 16:15 *Mikelsaar, M.*Possibility to apply Lactobacillus sp. strains for health in the whole food chain 16:15 16:45 *Štšepetova, J.*

11:15 11:45 Tlaskalova, H.

The role of microbiota in immunity development and chronic diseases: gnotobiology as a tool 11:45 12:00 *Claus*, *S*.

Nutrimetabonomics to link gut microbial modulations to metabolic health 12:00 12:15 discussion

Nutritional and gut microbiota programming of health and diseases

15:00 15:15 presentation 15:15 15:30 discussion

15:30 15:45 coffee break

Health effects by application of probiotic bacteria in different matrices 16:45 17:15 *Lazar*, *V*.

Assessment of in vivo immunomodulatory effect of non-viable components of probiotic

Day 2 25.9.2013

SESSION 4

10:00 10:30 *Venema, K.*Different energy extraction in the form of SCFA from fibers by lean and obese microbiota – implications for obesity?
10:30 10:45 *Roderick, I.M.*

SESSION 5

11:45 12:15 *Donelli, G.*Activity of probiotics on biofilm-growing pathogens of the oral cavity 12:15 12:30 *Koopman, J.E.*Effects of arginine on microbial ecological shifts in oral microcosms

SESSION 6

14:45 15:15 Boyko, N.

Novel composite antimicrobials in medicine and agri-food chain.

15:15 15:45 Bezirtzoglou, E.

Occurrence and antibiotic susceptibility profile of Streptococcus spp. isolated from ewe's milk 15:45 16:15 *Bezirtzoglou, E.*

Implementation of tigecycline and other antibiotics against clinical and environmental isolates

16:15 16:30 Aleshkin, V.

Day 3 26.9.2013

SESSION 7

9:00 9:30 *Madarasova Geckova, A.*Health of Roma living in Roma settlements 9:30 10:00 *Rajčničová, I.*10:00 10:15 *Kimáková. K.*

SESSION 8

10:45 11:00 *Le Roy, C.*Infection impact of two Brachyspira pilosicoli strains on chicken faeces metabolic profile 11:00 11:15 *Noureddine, A.*Microbiological quality of honey Algerian

Microbiological quality of honey Algerian 11:15 11:30 *Štyriak*, *I*.

Binding of extracellular matrix molecules by probiotic bacteria

11:30 11:45 Brestenský, M.

enterococcus faecium culture stimulated with heatinactivated cultures of Escherichia coli and Bacillus cereus

Conserved molecular mechanisms used to degrade heteroxylans in gut Bacteroidetes

10:45 11:00 presentation 11:00 11:15 presentation 11:15 11:30 discussion

12:30 13:00 *Jarčuška, P.*13:00 13:15 *Reet, M.*Microbial ecology of male genital tract
13:15 13:30 *Reet, M.*

Genital tract microbiome in infertile couples 13:30 13:45 discussion

Phage-mediated bioprocessing in decontamination of dairy products

16:30 16:45 Desbois, A.

Membrane composition changes of Staphylococcus aureus in response to a membrane perturbing antimicrobial peptide

16:45 17:00 discussion 17:00 18:00 networking bar

18:00 19:00 City tour - Jewels of Kosice

19:30 23:00 Conference coctail

Comparative study of life style within students of Technical University in Košice and Faculty of Medicine at University of P. J. Šafárik in Košice 10:15 10:30 presentation

10:15 10:30 presentation 10:00 10:15 discussion

10:15 10:45 coffee break

The effect of herbal feed additive Digestarom® supplemented to the diets for lactating sows on chemical and microbial composition of faeces 11:45 12:00 *Nitrayová*, *S*.

The pig as a valuable model for monitoring digestion and ecosystem of digestive tract

12:00 12:15 Videnska, P.

Development of gut microbiota of egg layers and changes induced by antibiotic therapy

12:15 12:30 discussion 12:30 13:00 Closing speech

Other upcoming meetings 2013 of interest for the SOMED members:

e 13 Sept 2013

the 13th Symposium on Aquatic Microbial Ecolog

that will be held in Stresa, on the shore of Lake Maggiore(Italy).



"Eurobiofilms 2013" will take place between 9th – 12th September 2013, in Gent, Belgium, organized by Tom Coenye, Johan van Eldere and Patrick van Dijck

Prospects of Systems Medicine In
Personalized Medicine to be Discussed at the

Biomarker Europe Summit 2013
October 9-10, 2013| Berlin, Germany |

October 9-10, 2013 | Berlin, Germany www.gtcbio.com/biomarkerseuro

Hans Lehrach, Prof.and Director at the Max Planck Institute for Molecular Genetics will give the presentation, "Big Data Medicine and Drug Development"

The next SOMED meeting 2014 will be:

The Joint Meeting SOMED – ASA, June 28th - July 1st, 2014, Chicago, U.S.A.

A Joint Meeting with the Society for Microbial Ecology and Disease & Anaerobe Society of the Americas, will be held at the Westin River North Hotel in Chicago, Illinois, USA.

More details: see the attached pdf document

Organizing Committee:

Dale N. Gerding, M.D.

Hines VA Hospital

Andrew B. Onderdonk, Ph.D.

Harvard Medical School

Co-Chairs:

David Aronoff, M.D.

University of Michigan

Eugenia Bezirtzoglou

Democritus University of Thrace, Greece

Diane M. Citron

R. M. Aldin Research Lab

Raina Nakova Fichorova, M.D.

Harvard Medical School

Wendy Garrett, M.D.

Harvard Medical School

Ellie J.C. Goldstein, M.D. *University of California, Los Angeles* Cynthia L. Sears, M.D. *Johns Hopkins University*

J. Glenn Songer, Ph.D. *Iowa State University*Ronald J. Goldman, Ph.D.

Anaerobe Society of the Americas

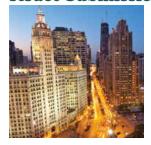
Proposals for sessions should be emailed to the ASA office.

E-mail: asa@anaerobe.org;

www.anaerobe.org

Important Dates:

December 31, 2013 — Oral Abstract Submission Deadline; February 3, 2014 — Poster Abstract Submission Deadline.





SOMED MEMBERSHIP 2013 APPLICATION FORM

First name:		Sur	name:
Dept/Labora	tory/Center:		
Institution/C	ompany: Str	eet/P.O.Box:	
Postal code:	City:	State:	Country:
Phone:		Fax:	E-mail:
I authorize t	he inclusion of Date	f my data in th	e SOMED Membership Directory as above detailed. Signature
□ Regular membership: EUR 40 (or USD 55)			☐ Corporate membership: EUR 400 (or USD 550)
□ Student membership: EUR 20 (or USD 25) (Please add student status certification)			□ Supporting membership: EUR 1000 (or USD 1350)
Please send y	our payment to	the SOMED T	Treasurer, Professor Eugenia Bezirtzoglou, by:
PIRAE			ENIA BEZIRTZOGLOU EUS BANK, Athens, Greece : GR04 0172 3510 0053 5103 0344 567 - BIC:
	By Cheque to	e: EUGl	ENIA BEZIRTZOGLOU
Please send the cheque by registered in			Faculty of Agricultural Development Dept. Food Science and Technology Democritus University of Thrace 2 Fleming Street, 163 45 Ano Ilioupolis, Athens, Greece
riease fax (+	SU 23 32U4119	11) or sena by 6	e-mail (empezirt@yahoo.gr) this form to Prof.

Bezirtzoglou