



SOMED NEWSLETTER

Society for Microbial Ecology and Disease

FALL

2007

PRESIDENT'S MESSAGE

Dear members, colleagues and friends,
our XXX International Congress on Microbial Ecology and Diseases held in Rome, September 16-18, jointly with the 4th Probiotics, Prebiotics and New Foods, has obtained a great success for both the large and highly qualified attendance and scientific interest.

The Congress has attracted more than 400 researchers and clinicians coming from the European Union but also from Australia, Brazil, Canada, Chile, Japan, Russia, Tunisia, USA and Venezuela, interested in both probiotics and different fields of microbial ecology, particularly that of the human intestinal tract in health and disease.



The opening ceremony was introduced by Professor Lucio Capurso and Professor Gianfranco Donelli as organizers of the joint meeting. Welcome addresses were presented by the President of the European Society of Clinical Microbiology and Infectious Diseases, Professor Giuseppe Cornaglia and by representatives of the Italian National Institute of Health (Prof. G. Donelli) and the Italian National Research Institute on Foods and Nutrition (Dr. Elena Mengheri).



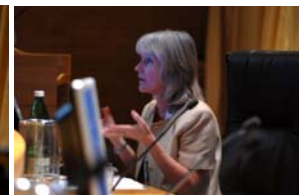
L. Capurso and G. Donelli



G. Cornaglia



Elena Mengheri



Maya Piñeiro

Congress began with three lectures in honour of Henry Tissier, Elie Metchnikoff and Minoru Shirota presented by Tore Midtvedt, Lorenzo Morelli and Franco Dellaglio, respectively. This historical session was followed by the presentation of data of a FAO technical meeting on probiotics chaired by Dr. M. Piñeiro.



Tore Midtvedt



Lorenzo Morelli

This first day closed with a welcome Cocktail in the beautiful gardens surrounding the Congress venue.



The Congress Programme has been planned on the basis of proposals received from both the above mentioned Institutions and SOMED.

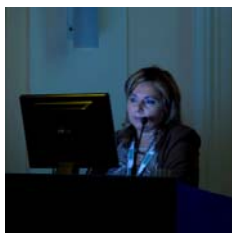
Within the sessions organized by SOMED, I would like to mention the significant contributions presented in the following research fields:

1. Long term effects of antibiotic therapies on intestinal microbial flora.

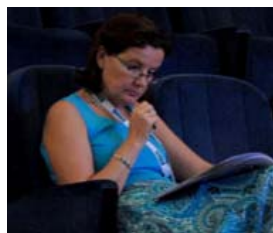
Professor Anne Collignon, from the Faculty of Pharmacy of the University of Paris, has demonstrated, in an *in vivo* model, how the probiotic use of *Saccharomyces boulardii* could prevent alterations in the intestinal flora due to the prolonged assumption of amoxicillin plus clavulanic acid.

Dr. Paola Mastrantonio, from the Italian National Institute of Health (ISS) of Rome, has reported data on the diffusion in North America from 2003 and, more recently, in different European countries, of the hypervirulent, antibiotic-resistant epidemic clone PCR ribotype O27 of *Clostridium difficile*.

Professor Eugenia Bezirtzoglou, from the Greek Democritus University of Thrace, has reported data on the emerging issue of antibiotic-resistance of bacterial strains isolated from environmental aquatic ecosystems and foods in Greece.



Eugenia Bezirtzoglou



Maria Saarela

Dr. Maria Saarela, from the Finnish VTT Technical Research Centre, has reported on the huge increase in the number of tetracycline-resistant intestinal bifidobacteria as a result of the oral administration of doxycycline.

Professor Elisa Bertazzoni Minelli, from the University of Verona, has faced the still unsolved problem of the optimal number of bacteria to be contained in probiotic products in order to ensure both their survival during storage and their therapeutic efficacy.

Professor Patrizia Brigidi, from the University of Bologna, has illustrated recent data on the mechanisms involved in the interaction between human gut and bifidobacteria.

Professor Giovanna Blandino, from the University of Catania, has faced the emerging problem of antibiotic-resistance of microorganisms present in probiotic products, reporting antibiotic susceptibility of 15 isolates of *Lactobacillus*, *Bifidobacterium*, *Streptococcus* and *Enterococcus* contained in probiotic products available in Italy.

2. The role of microbial biofilm in the pathogenesis of human diseases

Professor Sandra McFarlane, from the Scottish University of Dundee, has reviewed the present knowledge on microbial biofilm formation in the human intestinal tract in health and disease.



Sandra McFarlane



Emilio Guaglianone

Dr. Emilio Guaglianone, from the Italian National Institute of Health (ISS) of Rome, has reported how the formation and development of a multispecies microbial biofilm is a pivotal step leading to the occlusion of implanted biliary stents.

Professor Soren Molin, from the Danish University of Lyngby, has reported recent updates on the role of the biofilm-forming *Pseudomonas aeruginosa* in the pathogenetic mechanisms of chronic lung infection in cystic fibrosis patients.

Dr. Marco Oggioni, from the University of Siena, has demonstrated how the switch from the planktonic to the sessile growth represents a crucial step in the *Streptococcus pneumoniae* pathogenicity.

3. Therapeutic perspectives of new probiotics

Professor Marika Mikelsaar, from the Estonian University of Tartu, has reported the promising probiotic properties of a new human isolate of *Lactobacillus fermentum*, exhibiting both antimicrobial and antioxidative activity.



Marika Mikelsaar



Shigeru Kamiya

Professor Shigeru Kamiya, from the Kyorin University of Tokyo, has described the preventive and therapeutic effects of a particular strain of *Clostridium butyricum* against enteric infections caused by pathogenic bacteria including *Salmonella enteritidis* and enterohemorrhagic *Escherichia coli*.

Dr. Gregor Reid, from the Canadian Research and Development Centre for Probiotics, has reviewed the most recent studies on the efficacy of probiotics in prevention and treatment of urinary tract infections, bacterial vaginosis and fungal vaginitis.



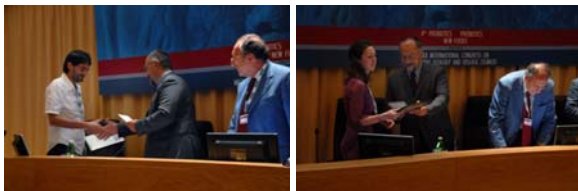
Gregor Reid



Andrew Onderdonk

Professor Andrew Onderdonk, from the Brigham and Women's Hospital in Boston, has introduced the Pediatric Day (Sept. 17) with an opening lecture on the role of microorganisms in the first year of life and the development of allergy.

Overall, a tremendous amount of information on the most recent results obtained by participants in their experimental and clinical studies was contained in the 80 lectures, 35 oral communications and 67 posters.



The presenters of the best two oral communications (Sandrine Claus – UK, Dorita Preza, Norway) and posters (M. Carmen Collado – Finland, Simone Guglielmetti – Italy) were awarded with prizes offered by the Italian Company Dicofarm.

On Monday 17th a social dinner held on the famous Terrazza Caffarelli has offered to participants the opportunity to relax, meet friends and enjoy Rome by night from the top of the Capitolium.



Thus, I would like to thank all SOMED members actively involved in the Congress sessions and congratulate all speakers as well as poster presenters for their valuable contribution to the success of this joint meeting.

Now, I'm looking forward to the next XXXI SOMED Congress that Elisabeth Norin is organising in Djurönäset, Stockholm Archipelago, May 28-30, 2008, jointly with the XVI International Symposium on Gnotobiology.

Finally, I would like to invite all colleagues interested in microbial ecology in health and disease to join our Society in order to get all the benefits of being a SOMED member, including the reduced Congress registration fee.

Gianfranco Donelli
SOMED President

MINUTES OF THE SOMED EXECUTIVE COUNCIL MEETING

Rome, September 17, 2007 at 5:00 pm

1. President's overview on the Society, SOMED Newsletter management and proposals for a fund-raising campaign
(G. Donelli)

SOMED President detailed the efforts made in collaboration with Board Members, and particularly with Eugenia Bezirtzoglou, to design the new Society's website which now contains a large number of useful informations on the Society and its history.

Since Spring 2007, the newly designed SOMED Newsletter, reach again quarterly all Society members as well as more than 500 scientists involved in the field of microbial ecology in health and disease.

Information on future meetings, courses, books and other publications as well as short commentaries on hot topics in the field of microbial ecology will be welcomed in order to be included in the next issues of the Newsletter. A fund-raising campaign will start soon after the Congress.

2. Secretary's report on membership status and recruitment of corporate members
(S. Kamiya)

An extraordinary effort will be done to recover as regularly paying members the over 300 scientists who belonged to the Society in the last 10 years.

By the end of 2007, all the companies which sponsored the Rome Congress will be invited to join the Society as Corporate Members.

3. Treasurer's report on financial status and website updating
(E. Bezirtzoglou)

*The Society's Treasurer reported that, on September 15, 2007, the SOMED account has a balance of 3845.29 EUR.
It has been decided to slightly increase the 2008 membership fees as follow (from now in EUR):*

*Regular members from 83 \$ to 60 €
Student member from 73 \$ to 50 €
Corporate members from 465 \$ to 500 €*

Further, a new membership opportunity will offer students to join SOMED, without MEHD subscription, by paying only 25 €. As for Regular, Student and Corporate members, this new membership category will be entitled to a reduced registration fee for the SOMED Annual Meetings.

It was also decided to compensate SOMED President and Treasurer collaborators with 500 €, for the work done for the quarterly editing of the SOMED Newsletter and for the design and updating of the SOMED Website, respectively.

4. SOMED – Taylor & Francis 2005-2009 Agreement: management issues and role of MEHD as SOMED official Journal
(T. Midtvedt)

After a number of reminders by the SOMED President, Taylor & Francis have finally sent to the SOMED Treasurer the dues (25 \$ for each membership) for the years 2005 and 2006, as indicated by the agreement signed between the parties.

However, there is a need to obtain a significant financial support to MEHD, as the official SOMED Journal, by promoting a fund-raising campaign among Companies interested in advertising their probiotics and/or antibiotics.

5. Appointment of the Nominating Committee responsible for the organization of the mail ballot
(G. Donelli)

Tore Midtvedt (Chairman, Sweden), David Spratt (UK) and Lansing Hoskins (USA) were appointed

6. Forthcoming Meetings:

- a) XVI International Symposium of Gnotobiology–XXXI SOMED Congress, Stockholm May 28 – 30, 2008 **(E. Norin)**

- b) XXXII SOMED Congress 2009: Chairperson, Organizing Committee, date and venue to be proposed **(Councilors)**

Offers to organise SOMED Meetings for the years 2009, 2010 and 2011 were proposed by members from Russia, USA and Japan, respectively.

The President gratefully acknowledged these offers and he's waiting to receive detailed proposals in the near future.

MINUTES OF THE SOMED GENERAL ASSEMBLY

Rome, September 17, 2007 at 6:30 pm

1. President's overview on the Society
(G. Donelli)
2. Secretary's report on membership status
(S. Kamiya)
3. 2008 SOMED Meeting:
XVI International Symposium of Gnotobiology jointly with XXXI SOMED Congress, Stockholm, May 28 – 30, 2008
(E. Norin)

Members attending the Assembly were informed by the SOMED President about the discussed issues and the most significant conclusions raised from the Executive Council Meeting.

Elisabeth Norin informed about the venue, the facilities and the preliminary program of the next SOMED Meeting in Sweden.

NEWS FROM MEETINGS AROUND THE WORLD

THE 4TH INTERNATIONAL YAKULT SYMPOSIUM

THE GUT, IMMUNE MODULATION AND PROBIOTICS



November 22nd-23rd, 2007
Palazzo della Gran Guardia
Verona, Italy

The 4th International Yakult Symposium, held in Verona November 22 – 23, 2007, was attended by 224 participants coming mostly from European countries such as Austria, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Ireland, Italy, The Netherlands and United Kingdom, but also from India and Japan.



The Symposium, open by the Yakult Italia General Manager Dr. Mauro Bonati, was planned by a scientific committee chaired by Professor Franco Dellaglio, from the University of Verona.



Dr. Mauro Bonati



Professor Franco Dellaglio

The Symposium included sessions and round table discussion on the following issues:

- 1) Host immune system and commensal flora as the stimulus to the gut;
- 2) Probiotics and immune modulation;
- 3) Examination of the evidence for probiotics: a) immune modulation, b) a possible prevention of cancer?



Professor Jerry Wells, from the Wageningen University and TNO, summarised as follow the main results and future challenges:

Gut Cancer

- 2nd most common cause of death in developed countries
- Risk factors include obesity, alcohol (for some cancers) high intake of processed meat
- As a whole not convincing evidence for vegetables should be look at w.r.t to individual cancers and vegetables
- Syncan Human intervention project showed dietary synbiotics reduce cancer risk in cancer patients and polyp patients
- Future Challenge: to identify non-invasive risk markers
- Several mechanisms reviewed by Kristin Verbeke: SCFA, bacterial enzymes, binding of toxins/mutagens, altered fermentation.

- Bernhard Watzl told us about immunomodulatory effects of butyrate; future studies needed in large bowel
- *In vitro* and *in vivo* studies show a protective effect; probiotics usually given prior to carcinogen and would be nice to study effects on progression
- Discrepancy between epidemiology and intervention studies in humans
- In human intervention studies early end points used

Immunosenescence and NK Cells

- By 2050, 30% population predicted to be older than 65
- NK cell activity reported to decline
- Evidence in mice that probiotics increase NK cell activity
- Encouraging but not conclusive evidence in humans
- How does it work?
- In the future need to know if increased killing is due to more NK cells or more active NK cells
- Mouse study of Takagi (2001) with LcS increased NK killing decreased tumour incidence
- “Maybe” it will be the same in humans?”
- Carsten Watzl explained why more knowledge of biology and regulation of NK receptors will be valuable - “the immune synapse”
- Paolo Boscolo gave us more insights on possible links between neuroendocrine system, immune system and NK cell activity

Innate Defences

- Tokiyoshi Ayabe – Antimicrobials and contribution of pathophysiology of Crohns disease
- Leaky epithelial barrier characteristic of several intestinal disorders and diseases – Ian mentioned possible role in cancer promotion
- *L. plantarum* modulated tight junctions in humans and EcN protected against TJ disruption by pathogenic *E. coli* (EPEC)
- Future need to look at physiological relevance of *in vitro* assays and TJ changes seen in humans
- Satoshi Matsumoto reviewed IL-6 in inflammation, evidence that LcS PSPD – I fraction down-regulated IL-6 using *in vitro* assays
- Human trials showed LcS increased prolongation of recurrence free period in non-muscle invasive bladder cancer

Final Comments

- Need to identify biomarkers for defining sub-optimal health
- Need validated biomarkers for colon cancer risk
- Microbiota signatures may provide surrogate markers and new insights
- Animal studies can give more insights on mechanisms and facilitate biomarker discovery
- More standardization of probiotic trials
- “ biomarkers should come from *in vivo* studies with welldefined end points”
- “Maybe” probiotics can reduce the risk for colon cancer

NEWS FROM THE COMPANIES




AAT - Advanced Analytical Technologies S.r.l.

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 www.aat-taa.eu
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FORTHCOMING EVENTS

XVI International Symposium on Gnotobiology

joint with

XXXI International Congress on Microbial Ecology & Disease

Djurönäset, Stockholm Archipelago
May 28 – 30, 2008



Preliminary program

Wednesday, May 28

Function and genetics – normal flora
Metabolomics
Intestinal flora – composition/techniques

Thursday, May 29

Intestinal disturbances
Immunology
Nutrition
Cancer
Poster session and Society meetings

Friday, May 30

Antibiotics, gene transfer and GMOs
Free lecturers
Prebiotics & Probiotics

Information: Elisabeth.Norin@ki.se

TNO
Beneficial Microbes Conference
FIRST ANNOUNCEMENT

TNO | Knowledge for business

International conference on the health impact and future potential of beneficial microbes

NH Barbizon Palace Hotel, Amsterdam, the Netherlands

29-30 May 2008

Specific topic areas:

- Intergly between nutrition and beneficial microbes
 - Metabolomics
 - Microbiota
 - Obesity
- Beneficial microbes and the epithelium
 - Visceral sensitivity
 - Barrier function
- Beneficial microbes and the immune system
 - Development of the immune system
 - Immunomodulation
- Health applications of beneficial microbes
 - Industrial applications
 - Probiotics and homeostasis
- Future developments
 - Claim support
 - Gut-brain axis
 - Functional foods

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EUPROBIO 2008 Conference

15-17 October 2008

Europejska Konferencja na temat Probiotyków i ich Zastosowania, Kraków, 15-17 paź. 2008
European Conference on Probiotics and their Applications, Cracow, 15-17 Oct. 2008
www.euprobio.com



EUPROBIO 2008

Gynaecology / Ginekologia

- (1) Applications of probiotics in the prophylaxis and treatment of inflammatory conditions of the genito-urinary tract./Zastosowanie probiotyków w profilaktyce i leczeniu stanów zapalnych dróg moczowo-płciowych.
- (2) Session with special emphasis on bacterial vaginosis and vulvo-vaginal candidiasis./Sesja specjalnie poświęcona zagadnieniu waginazy bakteryjnej oraz kandydozy pochwy i sromu.

Gastroenterology / Gastroenterologia

- (1) Applications of probiotics in the prophylaxis and treatment of functional and inflammatory bowel diseases (Crohn's disease, ulcerative colitis, irritable bowel syndrome)/Zastosowanie probiotyków w profilaktyce i leczeniu chorób czynnościowych i zapalnych przewodu pokarmowego (choroba Leśniewskiego-Crohna, wrzodzące zapalenie jelita grubego, zespół jelita drażliwego).
- (2) Applications of probiotics in the prophylaxis and treatment of colon cancer./Zastosowanie probiotyków w profilaktyce i leczeniu nowotworu jelita grubego.
- (3) Probiotics and obesity./Probiotyki a otyłość.

Neonatology / Neonatologia

- (1) Applications of probiotics in the prophylaxis and treatment of necrotizing enterocolitis (NEC) and sepsis./Zastosowanie probiotyków w profilaktyce i leczeniu martwiczego zapalenia jelit (NEC) i sepsy.
- (2) Applications of probiotics in the prophylaxis and treatment of acute diarrhoeas./Zastosowanie probiotyków w profilaktyce i leczeniu ostrych biegunek.

Immunology and allergology / Immunologia i alergologia

- (1) Immunological parameters for candidate probiotic strains./Parametry immunologiczne potencjalnych szczepów probiotycznych.
- (2) Immune mechanisms/atopy./Mechanizmy immunologiczne/atopia.
- (3) Microbiota and allergy prevention and treatment./Drobnoustroje w zapobieganiu i leczeniu schorzeń alergicznych.

Legislative issues, safety and technology / Kwestie legislacyjne, bezpieczeństwo i technologia

- (1) Legislation in EU and other European countries./Kwestie legislacji w UE oraz innych krajach Europy.
- (2) Safety (including immunocompromised subjects)/Bezpieczeństwo (włączając osoby z upośledzeniem odporności).
- (3) Strain selection for clinical trials./Selekcja szczepów do badań klinicznych.
- (4) Latest achievements in technology and formulations./Najnowsze osiągnięcia w dziedzinie technologii i projektowania składników.

Workshops for young scientists / Warsztaty dla młodych naukowców

Industrial session (paid separately) / Sesja przemysłowa (płatna oddzielnie)

- (1) Presentation of new products in the field of probiotics and prebiotics./Prezentacje nowych produktów w dziedzinie probiotyków i prebiotyków.
- (2) Potential of probiotics with regards to manufacturing and marketing./Potencjał probiotyków odnoszący się do ich produkcji i marketingu.



Registration deadline – 31 September 2008

Abstract deadline – 31 August 2008

For information, E-mail to Professor Piotr B. Heczko:

mbheczko@cyf-kr.edu.pl



GÖTEBORG, SWEDEN
JUNE 28 – JULY 2, 2009



General Information

Venue

Göteborg Convention Centre

Mässans Gata 20

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MEDIA INFORMATION AND NEWS



International Journal of Probiotics and Prebiotics: Birth of a much-needed Journal

This issue marks the launch of a new journal entitled "International Journal of Probiotics and Prebiotics". This journal is an interdisciplinary broad based peer reviewed scientific publication for critical evaluation of research on prebiotics, probiotics and synbiotics. The major goal of this journal is to provide peer reviewed unbiased scientific data to students, researchers, healthcare providers, and the decision makers in the nutraceutical industry to help make informed choices about prebiotics, probiotics and synbiotics.

A medline survey shows that more than two-thirds of all the manuscripts published on probiotics to date have been published during the last five years. This shows that rate at which interest in the enquiry of the science of probiotics is increasing. This growth is fueled by two fundamental sources. First, several clinical studies have unequivocally proven that certain probiotics may be useful in treating a variety of diarrheal disorders, including rotavirus diarrhea, antibiotic-associated diarrhea, *Clostridium difficile* diarrhea, and traveler's diarrhea. New data also suggests that probiotics might be useful in controlling inflammatory diseases, treating and preventing allergic diseases, preventing cancer, and stimulating the immune system, which may reduce the incidence of respiratory disease. Second, there has been a rapid growth in probiotics and probiotics business worldwide that is reflected by the appearance of new products in the market place on a regular basis. The thirst of the public to find nutritional modalities for disease prevention based on proven science and ever readiness of companies to provide products to do the job is certain to grow more rapidly in the future. This in turn will necessitate the need for common forum for all those interested in prebiotics and probiotic to publish their observations, discuss their opinions and views. An examination of the literature reveals that publications on prebiotics and probiotics are scattered throughout journals represented by many disciplines such as

nutrition, microbiology, pediatrics, gastroenterology, food science and biotechnology and many more. This new journal, International Journal of Probiotics and Prebiotics, will provide a common forum for nutritionists, healthcare providers, microbiologists, gastroenterologists, food scientists, and others interested in prebiotics and probiotics. The journal will publish original research articles, short communications, letters to the editor, product news from the industry, and review articles. First, we will publish a review of preclinical research data coming largely from animal, cell culture and other experimental models. Such data will provide basis for future product development and/or human research initiatives. Second, we will publish a critical evaluation of current human experimental data to help deliver products with medically proven use. Some of the topics that journal plans to cover will include, Health benefits (e.g., antimicrobial, anticarcinogenic, immunomodulatory, antidiarrheal, antiallergenic, hypolipidemic and hypoglycemic) of regulating activities of intestinal bacteria, impact of the gut microflora on host nutrition and host physiology, intestinal bacteriology / microbial community in the GI tract, gut microflora and atopic disease, intestinal microflora and homeostasis of the mucosal immune response, prebiotic oligosaccharides, prebiotics and colonic absorption of calcium and magnesium, the possible role of probiotic therapy in inflammatory bowel disease, and the role of probiotics in female urogenital healthcare.

The editorial board of the journal is made up of thirty members represented by 4 continents and 20 countries. The expertise of the members includes microbiology, nutrition, and food science, biotechnology to clinical research. The members of the board will work to ensure the publication of high quality manuscripts in their area of expertise. I am confident that the caliber of the editorial board will precipitate a great deal of respect and rapid growth of the journal. As Editor-in Chief, I welcome any suggestions or ideas you may have to improve the journal and I encourage readers to submit original manuscripts for publication.

Francesco Marotta MD, PhD
Editor-in-Chief



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LETTERS TO THE SOMED PRESIDENT

E-mail from Lansing Hoskins dated October 26, 2007.

Gianfranco,

SOMED should be the natural voice for scientists interested in the oral-enteric ecosystems. We should do what we can to promote it as the premier society concerned with this area of research.

To do this will take a long, patient process of building quality and participation. Getting MEHD onto the list of journals purviewed by PubMed was a step in the right direction; your restarting the organization now is another.

If we could persuade American leaders in this field like Jeffery Gordon and/or David Relman to sponsor a SOMED meeting here in the USA, it would improve SOMED's visibility on this side of the Atlantic.

The American Society for Microbiology sponsored an excellent conference on "Beneficial Microbes" April 17-21 in 2005 which was outstanding for the strong science and broad range of biological disciplines and topics covered. It was held at a lodge on Lake Tahoe independently of any other meetings related to the subject, hence participants stayed for the entire conference.

The American Gastroenterological Association sponsored a session at its national meeting last May in which Jeff Gordon gave a very stimulating talk on "The Gastrointestinal Microbiome" Project which has now been endorsed by the NIH.

Linkage of changes in the gut microbiota in association with obesity, now a public health problem in the USA, has stimulated interest in the gut "microbiome". I am not sure that the AGA would cosponsor a symposium with SOMED during their annual Digestive Disease Week, but that is a route that might be explored.

For now, though, I suggest that we update the membership list, see who we have as members, advertise for new members, get the society back on its feet, and make every effort to see that it survives as a scientific society.

If successful in establishing a broad and increasing membership base we should ultimately consider setting up an SOMED endowment whose income would support attendance at SOMED meetings by interested graduate and undergraduate students, post docs and others.

Best wishes
Lanse

Lansing Hoskins
to the Rome Congress, September
2007



Gianfranco Donelli together with all members of the SOMED Executive Board wish you and your family a Merry Christmas and a lot of good things for 2008.

Send your manuscript to the SOMED Official Journal !!!

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
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REVIEW ARTICLE

- [How to use the world's scarce selenium resources efficiently to increase the selenium concentration in food](#)  209 – 228
Authors: Anna Haug; Robin D. Graham; Olav A. Christophersen; Graham H. Lyons
DOI: 10.1080/08910600701698986

ORIGINAL ARTICLE

- [Assessment of the diversity and stability of faecal bacteria from healthy adults using molecular methods](#) 229 – 240
Authors: Guy C. J. Abell; Alexandra L. McOrist
DOI: 10.1080/08910600701662248
- [Purification and characterization of enterocin 62-6, a two-peptide bacteriocin produced by a vaginal strain of *Enterococcus faecium*: Potential significance in bacterial vaginosis](#) 241 – 250
Authors: Diane C. Dezwaan; Michael J. Mequio; Julia S. Littell; Jonathan P. Allen; Silvia Rossbach; Vivien Pybus
DOI: 10.1080/08910600701538240

ABSTRACTS

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DOI: 10.1080/08910600701485350

Miscellany

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DOI: 10.1080/08910600701810987

SOMED Newsletter is an electronic, periodic publication of the Society for Microbial Ecology and Disease, open to contributions from members and colleagues on the Society's related matters.

Information on future meetings, courses, books and other publications as well as short commentaries on hot topics in the field of microbial ecology will be welcomed in order to be included in the next issues of the SOMED Newsletter.

Contributions can be e-mailed to the SOMED President (gianfranco.donelli@iss.it) and/or to the SOMED Secretary (skamiya@kyorin-u.ac.jp).

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