



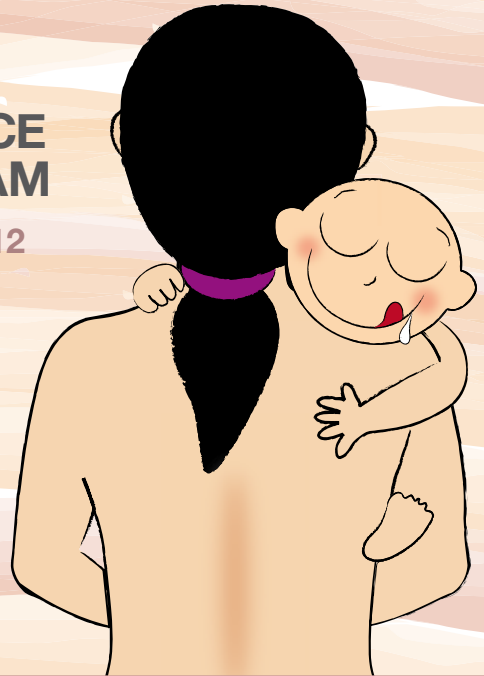
International Society for Research
in Human Milk and Lactation

Breastfeeding and the Use of Human Milk. Science & Practice

**16th ISRHML CONFERENCE
PRELIMINARY PROGRAM**

27th September - 1st October 2012

**Savoia Excelsior Palace Hotel
TRIESTE, ITALY**



SIN
SOCIETÀ ITALIANA DI
NEONATOLOGIA





Miramare Castle
Trieste

The International Society for Research on Human Milk and Lactation (ISRHML) holds its biennial conference to exchange scientific knowledge and discuss the new and ongoing studies in its research domain.

The next meeting is scheduled for late September 2012 in Trieste, Italy. The Conference Program will include basic research sessions as well as more practical sessions on the use of breast milk in neonatal intensive care units, mastitis, and medications during lactation.

Registration can be customized according to the specific interest of participants (see on-line program at www.isrhml.org for detailed structure of the Conference).

More than 100 members of ISRHML and distinguished researchers from all over the world are expected to participate in the 2012 Conference.

Therefore, this is a great opportunity that people involved in breastfeeding and human milk should not miss!

See you in Trieste!

On behalf of the Organizing Committee

Riccardo Davanzo,
Neonatologist
Institute of Maternal and Child Health, Trieste (Italy),
Program Chair

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Trieste Conference Organizers

Program Chair: Riccardo Davanzo, Italy

ISRHML Organizing Committee: Peter Hartmann, Australia; Paula Meier, USA; Shelley McGuire, USA; Mark McGuire, USA; Theresa Ochoa, Peru.

Local Organizing Committee: Riccardo Davanzo, Trieste; Carlo Agostoni, Milan; Pierpaolo Brovedani, Trieste; Sergio Demarini, Trieste; Fabio Mosca, Milan; Laura Travan, Trieste; Marcello Giovannini, Milan.

Conference administrator: Christa Müller-Aregger - Christa.Muller@medela.ch

10.00 am-07.00 pm **REGISTRATION**2.00-3.30 pm **PRE-CONFERENCE “STATE OF THE ART” COURSE A1
BREAST ANATOMY AND MILK EJECTION DURING BREASTFEEDING**

Chairperson:

Shelley McGuire, School of Biological Sciences, Washington State University, Pullman, WA, USA2.00 pm **Breast anatomy and milk ejection during breastfeeding****Donna Geddes**, Biomedical, Biomolecular and Chemical Sciences, Faculty of Life and Physical Sciences, The University of Western Australia2.40 pm *Discussion*2.45 pm **Ultrasound exploration of infant sucking dynamics during breastfeeding: normal versus difficult feeding****Donna Geddes**, Biomedical, Biomolecular and Chemical Sciences, Faculty of Life and Physical Sciences, The University of Western Australia3.25 pm *Discussion*3.30 pm *Coffee break*3.45-6.15 pm **PRE-CONFERENCE “STATE OF THE ART” COURSE A2
EVIDENCE-BASED HUMAN MILK USE IN THE NICU**

Chairperson:

Paula Sisk, Department of Pediatrics, Wake Forest University Health Sciences, Sara Lee Center for Women’s Health, Neonatal Intensive Care Unit, Winston-Salem, North Carolina, USA3.45 pm **Best practices with human milk storage and fortification****Sertac Arslanoglu**, Italian Association of Human Milk Banks (AIBLUD), Milan, Italy4.30 pm **Strategies to support lactation in mothers of preterm infants****Nancy Hurst**, Lactation Program and Mother’s Own Milk Bank, Texas Children’s Hospital, and Baylor College of Medicine, Houston, TX, USA5.15 pm **Former parents of NICU infants provide care for new families: mothers’ and staff perceptions****Beverly Rossman**, Department of Women, Children, and Family Nursing, Rush University Medical Center, College of Nursing, Chicago, IL, USA6.00 pm *Discussion*6.15 pm *Break*7.00 pm *Buffet dinner*8.00 pm *Free time*7.00-9.00 pm **EXECUTIVE COMMITTEE MEETING**

10.00 am-07.00 pm **REGISTRATION**2.00-4.15 pm **PRE-CONFERENCE "STATE OF THE ART" COURSE B1
GUT MICROFLORA AND NEWBORN INFANT DIET**

Chairperson:

Aloka Patel, Department of Pediatrics, Rush University Medical Centre, Chicago, Illinois, USA2.00 pm **Milk microflora and gut colonization****Mark McGuire**, Department of Animal and Veterinary Science, University of Idaho, Moscow, ID, USA2.40 pm **The mammalian gastrointestinal tract and early diet****Per Torp Sangild**, Clinical & Experimental Nutrition, Department of Human Nutrition, Faculty of Life Science, University of Copenhagen, Frederiksberg C, Denmark3.20 pm **Manipulation of the intestinal microbiome in the newborn infant****Joseph Neu**, Department of Pediatrics, University of Florida, Gainesville, USA4.00 pm *Discussion*4.15 pm *Coffee break*4.30-6.00 pm **PRE-CONFERENCE "STATE OF THE ART" COURSE B2
OLIGOSACCHARIDES IN THE NUTRITION OF EARLY LIFE**

Chairperson:

Sharon Donovan, Department of Food Science and Human Nutrition, University of Illinois, Urbana, Illinois, USA4.30 pm **Nutritional and biological properties of human milk oligosaccharides****Clemens Kunz**, Institute of Nutritional Sciences, Department of Pediatrics and Neonatology, Justus-Liebig-Universität Giessen, Germany5.00 pm **Human milk oligosaccharides structure-function relationships in the context of infant disease****Lars Bode**, Department of Pediatrics, University of California, San Diego School of Medicine, San Diego, California, USA5.30 pm *Discussion*6.00 pm *Break*7.00 pm *Buffet dinner*8.00 pm *Free time*7.00-9.00 pm **EXECUTIVE COMMITTEE MEETING**

08.45-9.15 am Opening plenary address **Riccardo Davanzo**, Trieste

9.15-10.30 am

Session I. Part 1.
THE USE OF HUMAN MILK IN NEONATAL UNITS

Chairperson:

Marcello Giovannini, Department of Pediatrics, University of Milan, Milan, Italy

9.15 am

Health Outcomes of Human Milk for Premature Infants

Paula Meier, Rush University Medical Center, Chicago, Illinois, USA

9.45 am

Differences in human milk composition among women delivering very preterm, preterm, and term infants

Carolina Moltó-Puigmartí, Department of Epidemiology, Maastricht University, Maastricht, the Netherlands.

10.15 am

Discussion

10.30 am

Coffee break

10.45 am-1.00 pm

Session I. Part 2.
THE USE OF HUMAN MILK IN NEONATAL UNITS

Chairperson:

Sergio Demarini, Division of Neonatology, Mother and Child Health Institute, Trieste, Italy

10.45 am

The economic burden of necrotizing enterocolitis (NEC)

Tricia J. Johnson, Health Care Economist.

Rush University Department of Health Systems Management, Chicago, IL, USA

11.15 am

The role of oligosaccharides in the protection from NEC: data from an original study

Lars Bode, Department of Pediatrics, University of California, San Diego School of Medicine, San Diego, California, USA

11.45 pm

Experimental NEC and its relationship with foetal and early neonatal nutrition

Per Torp Sangild, Clinical & Experimental Nutrition, Department of Human Nutrition, Faculty of Life Science, University of Copenhagen, Frederiksberg C, Denmark

12.15 pm

The prevention of human NEC: current evidence

Joseph Neu, Department of Pediatrics, University of Florida, Gainesville, USA.

12.45 pm

Discussion

01.00 pm

Lunch

2.30-3.45 pm

Session I. Part 3.
THE USE OF HUMAN MILK IN THE NEONATAL UNITS.

Chairperson:

Nancy Hurst, Lactation Program and Mother's Own Milk Bank, Texas Children's Hospital, and Baylor College of Medicine, Houston, TX, USA

2.30 pm

Coming to volume: a day in the life of a pump dependent woman

Janet Engstrom, Rush University Medical Center, Chicago, Illinois, USA

3.00 pm

From kangaroo care to feeding at the breast for the competent preterm infant

Nyqvist KH, Department of Women's and Children's Health, Uppsala University, Uppsala, Sweden

3.30 pm

Discussion

3.45 pm

Coffee break

4.00-5.45 pm

Session II.
THE HEALTH STATUS OF THE EXCLUSIVELY BREASTFED INFANT

Chairperson: **Berthold Koletzko**

Division of Metabolic and Nutritional Medicine, Dr. von Hauner Children's Hospital, University of Munich Medical Center, Munich, Germany

4.00 pm

Vitamin D and lactation

Carol Wagner, Department of Pediatrics, Medical University of South Carolina, Charleston, South Carolina, USA

4.30 pm

Point-Counterpoint on the optimal duration of exclusive breastfeeding: nutritional/biological outcomes and physiological mechanisms

4.30 pm

a) The four month option

Carlo Agostoni, Department of Maternal and Pediatric Sciences, Fondazione IRCCS Ospedale Cà Granda-Ospedale Maggiore Policlinico, University of Milan, Italy

5.00 pm

b) The sixth month option

Kay Dewey, University of California, Davis, California, USA

5.30 pm

Discussion

5.45-6.30 pm

Oral abstracts: 3 presentations

Carlo Agostoni, Department of Maternal and Pediatric Sciences, Fondazione IRCCS Ospedale Cà Granda-Ospedale Maggiore Policlinico, University of Milan, Italy

6.30-7.30 pm

Poster Session

7.30 pm

Break

8.15 pm

Welcome dinner

08.45-9.00 am Plenary address - Local Committee

9.00-10.45 am **Session III.**
UPDATE ON MACRONUTRIENTS IN HUMAN MILK

Chairperson:

David Newburg, Biology Director, Program in Glycobiology Higgins Hall,
Boston College Chestnut Hill, Massachusetts, USA

9.00 am **More to know of an old friend: proteins in human milk**

Bo Lönnerdal, Department of Nutrition, University of California, Davis, California, USA.

9.30am **The multiple biological effects of HMOS**

Clemens Kunz, Institute of Nutritional Sciences, Department of Pediatrics and Neonatology, Justus-Liebig-Universität Giessen, Germany

10.00 am **Current knowledge and perspectives in the area of human milk lipids**

Berthold Koletzko, Division of Metabolic and Nutritional Medicine, Dr. von Hauner Children's Hospital, University of Munich Medical Center, Munich, Germany

10.30 am *Discussion*

10.45 am *Coffee break*

11.10-12.00 am **Session IV.**
INFANT DIET AND BODY COMPOSITION

Chairperson:

Enrico Bertino, Neonatology Department, University of Turin, Italy

11.10 am **Body composition of human milk-fed newborn infants: plethysmographic findings**

Fabio Mosca, Fondazione IRCCS Ospedale Cà Granda-Ospedale Maggiore Policlinico, University of Milan, Italy

11.30 am **Ultrasound imaging: a technique for tracking premature infant body composition**

Donna Geddes, Biomedical, Biomolecular and Chemical Sciences, Faculty of Life and Physical Sciences, The University of Western Australia.

11.50 am *Discussion*

12.00-1.00 pm **Poster Session**

1.00 pm *Lunch*

2.30 pm *Free time for tourism*

7.00 pm *Break*

8.00 pm *Dinner & Awards*



1 Duino Castle



2 Roman Theatre



3 Waterfront

SATURDAY AFTERNOON: TOUR OPTIONS

TOUR A: The Castles Itinerary (by bus). Visit of Miramare Castle (the ancient residence of Ferdinand Maximilian of Hapsburg and Charlotte of Belgium) and Miramare Park; visit of the Duino Castle (residence of the Thurn und Thaxis family). Short walk on the Rilke Path (foot-path sheer above the sea, with breath-taking views, where Rainer Maria Rilke, the Prague poet of German origin, used to find inspiration during his stay at Duino Castle (Devin).

TOUR B: Postojnska Jama - The Postojna Cave (Slovenia; 50 Km from Trieste). The Postojna Cave is a 20-km long karst cave system. In 1872, railway tracks were laid in the cave. Part of the visit to the cave is done on the train and part of it on foot.

TOUR C: Trieste city tour (by bus and by walking). Including visit to Piazza Unità, Ancient Roman Theatre, four different worship places; San Giusto Castle and Cathedral; Revoltella Museum

SOCIAL PROGRAM AND LOCAL SUPPORT

Ekipeventi - Trieste (Luca Pagan - luca@ekipeventi.it; Gaia Tamaro - gaia@ekipeventi.it).

08.45-9.00 am Plenary address - Local Committee

9.00 am
10.00 am

Oral abstracts: 4 presentations

Chairperson:

Carlo Dani, Neonatology Dpt, University of Florence, Italy

10.00 am *Coffee break*

10.15-11.30 am **Session V:
VIRUSES IN HUMAN MILK**

Chairperson:

Maureen Groer, University of South Florida, Tampa, FL., USA

10.15 am **Mother to child transmission of human retrovirus
(HIV and HTLV) via human milk**

Grace Marquis, School of Dietetics and Human Nutrition, McGill University,
Montreal, Canada

10.45 am **Short and long term consequences of feeding very low birth
weight infants born to CMV-seropositive mothers**

Horst Buxmann, Department of Neonatology, University Children's Hospital,
Frankfurt, Germany

11.15 am *Discussion*

11.30 am-12.30 pm **Oral abstracts: 4 presentations**

Chairperson:

Theresa Ochoa, Universidad Cayetano Heredia, Lima, Perú

12.30-2.00 pm *Lunch*



City Hall

2.00-3.45 pm

Session VI. UPDATES ON IMMUNOLOGY OF HUMAN MILK

Chairperson:

Mark McGuire, Department of Animal and Veterinary Science, University of Idaho, Moscow, ID, USA

2.00 pm **Does breastfeeding reduce the risk for immune-mediated diseases?**

Olle Hernell, Department of Clinical Sciences/Pediatrics, Umeå University, Sweden

2.30 pm **Mammalian colostrum: composition and biological characteristics**

Peter Hartmann, University of Western Australia, Perth, Australia

3.00 pm **Psychoimmunology and breast milk**

Maureen Groer, University of South Florida, Tampa, Florida, USA

3.30 pm *Discussion*

3.45 pm *Coffee break*

4.00-5.30 pm

Session VII. STEM CELLS IN HUMAN MILK

Chairperson:

Peter Hartmann, University of Western Australia, Perth, Australia

4.00 pm **Overview of the current knowledge on stem cells**

Duanqing Pei, Guangzhou Institutes of Biomedicine and Health (GIBH), Chinese Academy of Sciences, in Guangzhou, China.

4.30 pm **Review of the current status of stem cells in human milk**

Foteini Hassiotou, School of Biomedical, Biomolecular and Chemical Sciences, Faculty of Life Sciences. The University of Western Australia, Crawley, WA, Australia

5.30-6.15 pm **Oral abstracts: 3 presentations**

Chairperson:

Rafael Perez-Escamilla, Community Health. Yale School of Public Health. New Haven CT, USA

6.15-6.45 pm *Break*

7.45 pm *Dinner*

08.45-9.00 am Plenary address - Local Committee

9.00-10.30 am **Session VIII.
MATERNAL HEALTH CONCERNS**

Chairperson:

Maurizio Bonati, Department of Public Health, Mario Negri Institute for Pharmacological Research, Milan, Italy

9.00 am **Can we define lactational mastitis”?**

Linda Kvist, Helsingborgs Hospital, University of Lund, Sweden

9.30 am **Appropriate treatment for infectious mastitis during lactation**

Juan Miguel Rodriguez, Departamento de Nutrición, Bromatología y Tecnología de los Alimentos, Universidad Complutense de Madrid, Madrid, Spain

10.00 am **Breastfeeding after breast cancer**

Fedro Peccatori, Fertility & Procreation, Oncology Unit
Department of Medicine. European Institute of Oncology, Milan

10.30 am *Discussion*

10.45 am *Coffee break*

11.00 am-12.15 pm **Session IX.
PSYCHOTROPIC DRUG USE DURING BREASTFEEDING**

Chairperson:

Riccardo Davanzo, Division of Neonatology; Mother and Child Health Institute, IRCCS Burlo Garofolo, Trieste, Italy

11.00 am **The use of antidepressants in pregnant and breastfeeding women**

Tom Hale, Department of Pediatrics, Texas Tech University School of Medicine, Amarillo, USA

11.30 am **Benzodiazepines and antipsychotic drugs in nursing women**

Maurizio Bonati, Department of Public Health, Mario Negri Institute for Pharmacological Research, Milan, Italy

12.00 am *Discussion*

12.15-1.00 pm **PLENARY LECTURE. Evidence-based promotion of breastfeeding:
a global scaling up project.**

Rafael Perez-Escamilla,
Community Health. Yale School of Public Health. New Haven CT, USA

1.00 pm **Closing remarks**
Meier, Hartmann, Davanzo

1.15-2.15 pm *Lunch*

Leaving Trieste

2.30-5.00 pm. Transfer to Trieste Railways Station or to Trieste Airport.

At 5.00 pm departure from Trieste Railway Station of Euro Star City Train to Venezia-Mestre Railway Station (connected by bus to Venice airport) or to Venezia Santa Lucia Railway Station (City of Venice)

Evening flights from Trieste Airport to Munich, Rome, Milan.

SEPTEMBER IN TRIESTE: CLIMATE

Average maximum temperature: 24 °C (75 °F)

Average minimum temperature: 17 °C (63 °F)

Monthly rainfall: 100 mm



ABSTRACT SUBMISSION DETAILS

All participants are kindly invited to present their experiences and their knowledge in a poster at the conference. Please note that only abstracts that meet the guidelines outlined below will be considered for presentation. In addition, authors of selected abstracts will also be invited to present their research in a brief, oral presentation.

Final deadline for abstract submission: March 31st, 2012.

Abstracts must be sent to dr Mark McGuire, Organizing Committee of the 16th ISRHML Conference (mmcguire@uidaho.edu).

Abstract selection: The 16th ISRHML Conference Organizing Committee will select among submitted abstracts those for poster exhibition; 14 of these will also be chosen as oral presentations. All accepted abstracts will be included in the proceedings of the Conference. The authors will be notified of acceptance or rejection by email by April 30th, 2012.

Guidelines for abstracts: Abstract length is limited to a maximum of 500 words. Please ensure that the abstract does not contain spelling, grammatical, or scientific errors, as it will be reproduced exactly as submitted. Submitted abstracts will be reviewed, but not edited. If an abstract does not fulfill the necessary space requirements, it may not be published. An abstract must be complete in all its parts and include the following:

1. *Title:* Please avoid abbreviations. Abbreviations may be used in the text if they are defined when used first. The authors' names (first name, surname) and affiliation (institution, city, country) should be given. Degrees, titles, street addresses should be omitted.
2. *Objectives and/or hypotheses*
3. *Methods*
4. *Results*
5. *Conclusions*
6. *Acknowledgements and a conflict of interest disclosure statement.* These must be indicated at the bottom of the abstract. A conflict of interest exists if authors or their institutions have financial or personal relationships with other people or organizations that could inappropriately influence (bias) their actions. Significant conflicts of interest include financial benefits, subsidies or support for research, employment, a consultancy contract, large shareholdings or work in a public relations department.

References, if any, need to be included in the text – not a footnote.

Formatting

- Font size should be **12-point**. Font should be **Times New Roman**. Text should be double-spaced.
- Use only a single space between sentences. Do not use bold face for emphasis within text. Use a comma before the final “and” or “or” in a list of items. Type decimal points lowline (ie, 35.6). Except in figures and tables, numbers one to ten should be written out unless they are used as a unit of measure. Use single hard-returns to separate paragraphs. Do not use tabs or indents to start a paragraph.

Acknowledge of your scientific contribution to the conference: Due to the nature and the aims of our scientific Society, we regret that the Conference Organizing Committee cannot offer any honorarium for the presentation of selected abstracts.

Conference registration: Speakers are asked to register for the conference as usual by May 31, 2012 (early registration) or July 31, 2012 (regular registration) at the latest.

**REGISTRATION: www.isrhml.org
from November 30th, 2011 onwards**

DEADLINES

Abstracts submission	March 31, 2012
Early registration	May 31, 2012
Late registration	July 31, 2012



In a Quiet Corner of Italy ...

Trieste is the capital of the far north-eastern region of Italy, Friuli-Venezia Giulia. For a long time this major port was part of the Austro-Hungarian Empire, and although the town is now part of Italy, the Slovenian border is only a few miles away, curving round to the north and east.

There aren't a huge number of 'must-see' tourist attractions in Trieste, but it's a pleasant place to spend some days. It makes a good staging post if you're travelling onwards into Slovenia or towards Venice or to the mountains. It's a good destination for those with children (caves and castles to visit), and there are several scientific-themed museums in the area.

Trieste is amongst Italy's most unique cities and much of its former grandeur is still clearly apparent in the form of imposing buildings with elaborate Neo-classical facades.

Trieste oozes the atmosphere of Mittel-europa (Central Europe) and of an empire (the Austro-Hungarian) long gone.

The city's tolerance is proverbial: in addition to the Latins and Slavs and Germans who make up its core population, other peoples have arrived over the centuries from many parts of the globe to find both work and the freedom to live in peace. Consequently, Trieste hosts many religious communities and by walking down the city you can see several religious buildings representing each religious community: Catholic, Jewish, Greek Orthodox, Serbian Orthodox, Swiss Waldensian, Augustan Evangelical, Methodist and Adventist.

James Joyce wrote most of "Dubliners," all of "Portrait of the Artist as a Young Man," and portions of "Ulysses" during the 10 years he lived in Trieste.

Sponsorship

Thank you to the following sponsors who support this conference:

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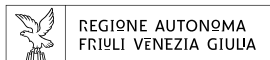
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Associazione a sostegno dei familiari dei bambini ricoverati presso il reparto di terapia intensiva neonatale dell' i.R.C.C.S. Burlo garofolo

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