5TH INTERNATIONAL EURAIBI MEETING
EUROPE AGAINST INFANT BRAIN INJURY

BRAIN INJURY AND NEONATAL DISEASES: EARLY DIAGNOSIS AND THERAPEUTIC STRATEGIES

SIENA APRIL 19-21 2012
President: Giuseppe Buonocore

PRELIMINARY PROGRAM
Welcome letter

Dear Friends and Colleagues,

It gives me great pleasure to welcome you to Siena for the 5th EURope Against Infant Brain Injury International Meeting, April 19-21, 2012.

EURAIBI is an international non-profit foundation whose goal is to promote the prevention of cerebral damage in the foetus and newborn. The aim of EURAIBI is to gather the efforts of all centers of neonatology, nursing care, doctors and scientists in order to determine the elements allowing a precise definition of risk factors for brain damage. Hopefully, these efforts will eventually lead to new preventative and therapeutic approaches. EURAIBI is particularly devoted to the study of pregnancy diseases, intrauterine infections, pre- and post-natal asphyxia and to the treatment of newborns with a high risk of brain damage. The goal is to prevent, or at least, to minimize the cerebral damage prevalent in the early foetal stages and to sustain the scientific progress in the prevention of cerebral damage in foetus and in newborn.

In keeping with the continuing success of previous meetings, EURAIBI 2012 aims to elucidate the pathogenesis of brain injury. The brain is an extraordinary system, which is still widely unexplored. Prenatal events can influence its development and condition the future of the human being. The fifth international meeting of EURAIBI will explore the complex interaction between the brain and the other systems of the human body: cardiorespiratory, gastrointestinal, and urinary. Top-notch speakers will introduce you to the fascinating aspects of prenatal programming. You will learn how the brain can modulate the activity of all organs and tissues, and also how brain functions are conditioned by the relative state of health of the rest of the body. Presentations will draw the attendee’s attention to these aspects, including how to face brain damage, the best and most up-to-date management strategies for neonatal diseases, reporting new guidelines and new strategies for prevention.

EURABI’s goal is to promote an optimal interaction between basic research and clinical experience, in a friendly atmosphere. Siena, as the venue of the meeting, is rich with a tradition of study and culture. We hope that you will have time to enjoy the city’s natural beauty, to explore the historic streets and buildings, and to experience the high quality of the restaurants and Siena’s hospitality.

I eagerly await your arrival

President of EURAIBI
Giuseppe Buonocore
Faculty

Agosti Massimo, Italy
Balduini Walter, Italy
Barberi Ignazio, Italy
Bhatia Jatinder, USA
Bellieni Carlo Valerio, Italy
Benders Manon, The Netherlands
Bennett Philip, U.K.
Bertino enrico, Italy
Biban Paolo, Italy
Boldrini antonio, Italy
Carnielli Virgilio, Italy
Cataldi Luigi, Italy
Chemtob Sylvain, Canada
Chirico Gaetano, Italy
Cooke Richard, USA
Corsello Giovanni, Italy
Dani Carlo, Italy
De Curtis Mario, Italy
Del Vecchio Antonello, Italy
De Vries Linda, The Netherlands
Fabris Claudio, Italy
Fanos Vassilios, Italy
Farnetani Italo, Italy
Ferrari Fabrizio, Italy
Ferrazzi Enrico, Italy
Gancia Paolo, Italy
Gazzolo Diego, Italy
Giliberti Paolo, Italy
Govaert Paul, The Netherlands
Gressens Pierre, U.K.
Guarino Alfredo, Italy
Guimaraes Hercilia, Portugal
Hagberg Henrik, Sweden
Hallman Mikko, Finland
Hellström-Westas Lena, Sweden
Huppi Petra, Switzerland
Kramer Boris W., The Netherlands
Lagercrantz Hugo, Sweden
Lista Gianluca, Italy
Marlow Neil, U.K.
Martin Richard J., USA
Moretti Corrado, Italy
Mosca Fabio, Italy
Paolillo Pier Michele, Italy
Petraglia Felice, Italy
Pozzi Gianni, Italy
Ramanathan Rangasamy, U.K.
Ramenghi Luca, Italy
Reiter Russel J., USA
Robertson Nicola, U.K.
Saliba Elie, France
Sandri Fabrizio, Italy
Simeoni Umberto, France
Speer Christian P., Germany
Stiris Tom, Norway
Sun Bo, China
Szajewska Hania, Poland
Tagliabue Paolo, Italy
Tribelli Claudio, Italy
Valensise Herbert, Italy
Van Bel Frank, The Netherlands
Van Overmeire Bart, Belgium
Vendemmia Salvatore, Italy
Vento Maximo, Spain
Weindling Michael, U.K.
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Preliminary Program
THE FETUS AND THE NEWBORN AT RISK
Felice Petraglia
The high-risk pregnancy

Paolo Tagliabue
The high-risk newborn

Giovanni Corsello
Congenital malformations

Jatinder Bhatia
Nutrition and brain growth

Paolo Bihan
Early detection of neonatal depression and asphyxia

OPENING CEREMONY AND COFFEE BREAK

MECHANISMS OF BRAIN DAMAGE
Russel J. Reiter
Neurotoxins in neonatal brain

Walter Balduini
Autophagy in hypoxia-ischemia induced brain injury

Henrik Hagberg
Perinatal brain injury

LUNCH AND POSTER WALK
RESPIRATORY DISORDERS: DIAGNOSIS AND TREATMENT
Boris Kramer
Lung development after premature birth

Richard J. Martin
Respiratory disorders in preterm and term infants

Rangasamy Ramanathan
Chronic lung disease

COFFEE BREAK

Corrado Moretti
Mechanical ventilation

Fabrizio Sandri
Non invasive strategies of ventilation

Gianluca Lista
Alveolar recruitment in the delivery room

Virgilio Carchielli
Intrapulmonary drug administration in newborn care
April 19th

POSTNATAL GROWTH AND NEWBORN’S NUTRITION
Mario De Curtis
Nutrition and kidney in preterm infants

Massimo Agosti
Nutritional recommendation for healthy newborns

Richard Cooke
Post discharge nutrition of preterm newborns

MICROBIOTA AND PROBIOTICS
Chairman: Gianni Pozzi

Alfredo Guarino
The intestinal microbiota

Enrico Ferrazzi
Probiotics an alternative to the antibiotic therapy?

Hania Szajewska
Is early nutrition related to short-term health and long term outcome?
RECOGNITION AND MANAGEMENT OF THE NEWBORN AT RISK
Enrico Bertino
Growth charts

Diego Gazzolo
Primary investigations

Fabrizio Ferrari
Early diagnosis and poor outcome

IS THE NEWBORN MORALLY DIFFERENT?
Umberto Simeoni
The fetalization of the newborn

Carlo Valerio Bellieni
Why do we treat the newborn differently?

Hercilia Guimaraes
Rights of the newborn and end of life decision
NEWBORN BRAIN AND DEVELOPMENT
Pierre Gressens
Neonatal brain development

Hugo Lagercrantz
The newborn brain

Michael Weindling
Insight into early brain development

COFFEE BREAK

BRAIN PATHOLOGY AND NEURODEVELOPMENTAL OUTCOME
Neil Marlow
Preterm birth and neurodevelopmental outcome

Lena Hellstrom-Westas
Clinical seizures in the extremely low birth weight neurological outcome

Paul Govaert
Neonatal brain arteriopathies

Luca Ramenghi
Cerebral venous sinus thrombosis

LUNCH AND POSTER SESSION

PERINATAL INFECTION AND BRAIN DAMAGE
Philip Bennett
Preterm birth and inflammation

Elie Saliba
Maternal infections and immature brain

Christian P. Speer
Chorioamnionitis: consequences for pulmonary and neurological outcome
April 20th

IMAGING
Chairman: Gaetano Chirico

Herbert Valensise
Ultrasound detection of brain damage in pregnancy

Linda De Vries
Role of imaging in cerebral palsy

Petra Huppi
Neuroimaging of the developing brain

Manon Benders
MRI imaging and outcome of term neonates

COFFEE BREAK
NEONATAL JUNDICE AND BRAIN INJURY
Claudio Tiribelli
Molecular basis of the bilirubin-induced neurological damage

Carlo Dani
Physiological and pathological hyperbilirubinemia

Hercila Guimares
Disorders of the neonate liver and bile ductus
ORGANS AND FACTORS RELATED TO BRAIN INJURY
Sylvain Chemtob
Growth factors and ROP

Bart Van Overmeire
Patent ductus arteriosus: effects on brain development

Umberto Simeoni
Renal disease and brain development

Maximo Vento
Optimal ventilation at birth and tailored oxygen needs

COFFEE BREAK

Bo Sun
Nitric oxide in neonatal hypoxemic respiratory failure

Vassilios Fanos
Clinical application of metabolomics in neonatology

NEW STRATEGIES FOR TREATMENT
Frank Van Bel
Neuroprotective strategies

Nicola Robertson
New strategies in perinatal asphyxia

GENERAL DISCUSSION AND COMMENTS
Giuseppe Buonocore

POSTER AWARDS AND CONCLUDING REMARKS
General Information

SCIENTIFIC COMMITTEE
Giuseppe Buonocore, Italy
Felice Petraglia, Italy
Rodolfo Bracci, Italy
Mikko Halman, Finland
Ola Didrik Saugstad, Norway
Christian P. Speer, Germany

SCIENTIFIC SECRETARIAT
EURAIIBI Foundation Onlus
President Prof. Giuseppe Buonocore
Dept. of Paediatrics Obstetrics and Reproductive Medicine
University of Siena 53100 Siena - Italy
Tel. +39 0577 586523
Fax +39 0577 586188
giuseppe.buonocore@unisi.it
www.euraibi.it

VENUE
Universitá di Siena
Centro Didattico del Policlinico
S. Maria alle Scotte - Strada Le Scotte, 4 - 53100 Siena - Italy

REGISTRATION FEES (21% VAT included)

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tr>
<td>Participant</td>
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<tr>
<td>- within December 30, 2011</td>
<td>€ 300,00</td>
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<tr>
<td>- within February 14, 2012</td>
<td>€ 350,00</td>
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<td>- within April 8, 2012</td>
<td>€ 400,00</td>
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<td>- from April 9 and on site</td>
<td>€ 500,00</td>
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<td>Midwife/Nurse/Post Graduate</td>
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<td>- within January 19, 2012</td>
<td>€ 200,00</td>
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<td>- within April 8, 2012</td>
<td>€ 250,00</td>
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<td>- from April 9 and on site</td>
<td>€ 363,00</td>
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<tr>
<td>Participant Low Income Countries</td>
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<td>- within January 19, 2012</td>
<td>€ 250,00</td>
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<tr>
<td>- within April 8, 2012</td>
<td>€ 303,00</td>
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<td>- from April 9 and on site</td>
<td>€ 363,00</td>
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<tr>
<td>Daily Registration</td>
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REGISTRATION FEES INCLUDE
- Admission to scientific sessions, technical exhibition
- Final programme
- Abstracts book
- Coffee breaks and lunches
- Opening ceremony
- Certificate of attendance
- The Meeting has applied for Italian CME accreditation

ORGANIZING SECRETARIAT
Via Michele Mercati, 33
00197 Rome Italy
Ph. +39.06.80693320
Fax +39.06.3231136
euraibi2012@emec-roma.com
www.euraibi.it
www.emec-roma.com