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
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.

EURABI is an international non-profit foundation whose goal is to promote the prevention of cerebral damage in the foetus and newborn. The aim of EURABI is to gather the efforts of all centers of neonatology, nursing care, doctors and scientists in order to determine the elements that allow precise definition of risk factors for brain damage. Hopefully, these efforts will eventually lead to new preventative and therapeutic approaches. EURABI 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 that is prevalent in the early foetal stages and to sustain the scientific progress in the prevention of cerebral damage in the foetus and newborn.

In keeping with the continuing success of previous meetings, EURABI 2012 aims at elucidating the pathogenesis of brain injury. The brain is an extraordinary system, which is still widely unexplored. Prenatal events may influence its development and condition the future of the human being. The fifth international meeting of EURABI will explore the complex interaction between the brain and the other systems of the human body: cardiorespiratory, gastrointestinal and urinary. High level 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 up to brain damage, the best and most up-to-date management strategies for neonatal diseases, reporting new guidelines and new strategies for prevention.

The EURABI 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 in a tradition of study and culture. We hope that you will have time to enjoy the city’s natural beauty, to explore the historical streets and buildings and experience the high quality of the restaurant’s and the local Siena hospitality.

I eagerly await your arrival.

President of EURABI
Giuseppe Buonocore
Faculty

Aådén Ulrika, Sweden
Agosti Massimo, Italy
Balduini Walter, Italy
Barberi Ignazio, Italy
Bellieni Carlo Valerio, Italy
Benders Manon, The Netherlands
Bennett Phillip, UK
Bertino Enrico, Italy
Bhatia Jatinder, USA
Bibian 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
De Vries Linda, The Netherlands
Del Vecchio Antonio, Italy
Fabris Claudio, Italy
Fanos Vassilios, Italy
Farnetani Italo, Italy
Ferrari Fabrizio, Italy
Ferrazzi Enrico, Italy
Gancia Paolo, Italy
Gazzolo Diego, Italy
Giliberti Paolo, Italy
Goviera Paul, The Netherlands
Gressens Pierre, UK
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
Listo Gianluca, Italy
Marlow Neil, UK
Martin Richard J, USA
Moretti Corrado, Italy
Mosca Fabio, Italy
Paolillo Pier Michele, Italy
Petraglia Felice, Italy
Poźni Gianni, Italy
Ramanathan Rangasamy, UK
Ramenghi Luca, Italy
Reiter Russel J, USA
Robertson Nicola, UK
Saliba Elie, France
Sandri Fabrizio, Italy
Simeoni Umberto, France
Spee Christian P, Germany
Striss Tom, Norway
Sun Bo, China
Surico Nicola, Italy
Szajewska Hania, Poland
Tagliabue Paolo, Italy
Tiribelli Claudio, Italy
Valensise Herbert, Italy
Van Bel Frank, The Netherlands
Vendemmia Salvatore, Italy
Vento Maximo, Spain
Weindling Michael, UK

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
April 19<sup>TH</sup>  

**THE FOETUS AND THE NEWBORN AT RISK**  
Chairman: Nicola Surico

08:30 - 09:00 Felice Petraglia  
High-risk pregnancy

09:00 - 09:30 Paolo Tagliabue  
High-risk newborn

09:30 - 10:00 Giovanni Corsello  
Congenital malformations

10:00 - 10:30 Jatinder Bhatia  
Nutrition and brain growth

10:30 - 11:00 Paolo Biban  
Early detection of neonatal depression and asphyxia

11:00 - 12:00 OPENING CEREMONY

**MECHANISMS OF BRAIN DAMAGE**  
Chairman:

12:00 - 12:30 Russel J. Reiter  
Neurotoxins in the neonatal brain

12:30 - 13:00 Walter Balduini  
Autophagy in hypoxia-ischemia induced brain injury

13:00 - 13:30 Henrik Hagberg  
Perinatal brain injury

13:30 - 14:30 LUNCH AND POSTER WALK

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**RESPIRATORY DISORDERS: DIAGNOSIS AND TREATMENT**  
Chairman:

14:30 - 15:00 Boris Kramer  
Lung development after premature birth

15:00 - 15:30 Richard J. Martin  
Respiratory disorders in preterm and term infants

15:30 - 16:00 Rangasamy Ramanathan  
Chronic lung disease

16:00 - 16:30 Corrado Moretti  
Mechanical ventilation

16:30 - 17:00 Fabrizio Sandri  
Non invasive strategies of ventilation

17:00 - 17:30 Gianluca Lista  
Alveolar recruitment in the delivery room

17:30 - 18:00 Virgilio Carnielli  
Intrapulmonary drug administration in newborn care
### Postnatal Growth and Newborn Nutrition

**Chairman:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>14:30 - 15:00</td>
<td>Mario De Curtis</td>
<td>Nutrition and kidney in preterm infants</td>
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<tr>
<td>15:00 - 15:30</td>
<td>Massimo Agosti</td>
<td>Nutritional recommendation for the healthy newborn</td>
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<tr>
<td>15:30 - 16:00</td>
<td>Richard Cooke</td>
<td>Post discharge nutrition of preterm newborns</td>
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### Microbiota and Probiotics

**Chairman:** Gianni Pozzi

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<thead>
<tr>
<th>Time</th>
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<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>16:00 - 16:30</td>
<td>Alfredo Guarino</td>
<td>The intestinal microbiota</td>
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<tr>
<td>16:30 - 17:00</td>
<td>Enrico Ferrazzi</td>
<td>Probiotics as an alternative to the antibiotic therapy?</td>
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<tr>
<td>17:00 - 17:30</td>
<td>Hania Szajewska</td>
<td>Is early nutrition related to short-term health and long term outcome?</td>
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### Recognition and Management of the Newborn at Risk

**Chairman:**

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<thead>
<tr>
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<th>Topic</th>
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<tr>
<td>14:30 - 15:00</td>
<td>Enrico Bertino</td>
<td>Growth charts</td>
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<td>15:00 - 15:30</td>
<td>Diego Gazzolo</td>
<td>Primary investigations</td>
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<tr>
<td>15:30 - 16:00</td>
<td>Fabrizio Ferrari</td>
<td>Early diagnosis and poor outcome</td>
</tr>
</tbody>
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### Is the Newborn Morally Different?

**Chairman:**

<table>
<thead>
<tr>
<th>Time</th>
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<th>Topic</th>
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<tbody>
<tr>
<td>16:00 - 16:30</td>
<td>Umberto Simeoni</td>
<td>The fetalization of the newborn</td>
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<tr>
<td>16:30 - 17:00</td>
<td>Carlo Valerio Bellieni</td>
<td>Why do we treat the newborn differently?</td>
</tr>
<tr>
<td>17:00 - 17:30</td>
<td>Hercilia Guimaraes</td>
<td>Rights of the newborn and end of life decisions</td>
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</table>
NEWBORN BRAIN AND DEVELOPMENT
Chairman:
Pierre Gressens
Neonatal brain development
Hugo Lagercrantz, Ulrika Ådén
The newborn brain
Michael Weindling
Insight into early brain development

PERINATAL INFECTION AND BRAIN DAMAGE
Chairman:
Phillip Bennett
Preterm birth and inflammation
Elie Saliba
Maternal infections and the immature brain
Christian P. Speer
Chorioamnionitis: consequences for pulmonary and neurological outcome

BRAIN PATHOLOGY AND NEURODEVELOPMENTAL OUTCOME
Chairman:
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
Poster Session and Platform Session

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
**NEONATAL JUNDICE AND BRAIN INJURY**

Chairman:

14:30 - 15:00 Claudio Tiribelli  
Molecular basis of the bilirubin-induced neurological damage

15:00 - 15:30 Carlo Dani  
Physiological and pathological hyperbilirubinemia

15:30 - 16:00 Hercilia Guimares  
Disorders of the neonate liver and bile ductus

**ORGANS AND FACTORS RELATED TO BRAIN INJURY**

Chairman:

08:30 - 09:00 Sylvain Chemtob  
Growth factors and ROP

09:00 - 09:30 Frank Van Bel  
Impact of PDA therapy on cerebral oxygenation

09.30 - 10.00 Umberto Simeoni  
Renal disease and brain development

10.00 - 10:30 Maximo Vento  
Optimal ventilation at birth and tailored oxygen needs

11:00 - 11:30 Bo Sun  
Nitric oxide in neonatal hypoxemic respiratory failure

11:30 - 12:00 Vassilios Fanos  
Clinical application of metabolomics in neonatology

**NEW STRATEGIES FOR TREATMENT**

Chairman:

12:00 - 12:30 Frank Van Bel  
Neuroprotective strategies

12:30 - 13:00 Nicola Robertson  
New strategies in perinatal asphyxia

**GENERAL DISCUSSION AND COMMENTS**

13:00 - 13:30 Giuseppe Buonocore

13:30 **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
EURAIBI Foundation Onlus
President Prof. Giuseppe Buonocore
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Tel. +39 0577 586523
Fax +39 0577 586188
giuseppe.buonocore@unisi.it
www.euraibi.it

VENUE
Università di Siena
Centro Didattico del Policlinico
S. Maria delle Scorte - Strada Le Scotte, 4 - 53100 Siena - Italy

DATES
April 19-21, 2012

LANGUAGE
English will be the official language of the Conference

CLOTHING
Informal for all occasions

CLIMATE
Siena has a continental climate, April is characterised by warm days with some possibility of rain (Max. 19°C / 66.2°F - Min. 8°C / 46.4°F)

BADGES
All participants, accompanying persons and exhibitors are kindly requested to wear their badges throughout the Conference area in order to be admitted to the scientific sessions and to all the activities of the Conference.

REGISTRATION & ACCOMMODATION
All participants must submit a completed registration form.
Hotel accommodation at special Conference rates will be offered to participants.
Detailed information, as well as access to the registration and accommodation form, will shortly be available at the website: www.euraibi.it please follow the instructions

BANKING AND EXCHANGE
The Italian monetary system is the Euro. Foreign currency may be exchanged at banks during normal banking hours, at hotels, at airports and in exchange offices. All major credit cards are accepted in most hotels, restaurants and shops.

LIABILITY AND INSURANCE
The Conference Organisers cannot accept liability for personal injuries or for loss of, or damage to, property belonging to congress participants (or their accompanying persons), either during or as a result of the conference. Please check the validity of your own insurance.

VISA REQUIREMENTS
All visitors entering Italy must be in possession of a valid passport. For European Community citizens an Identity Card is sufficient. Participants should check the Italian Embassy or Consulate in their country regarding visa and health certificate requirements.

OFFICIAL LETTER OF INVITATION
Official letters of invitation designed to help overcome administrative difficulties in certain countries are available on the Conference website. It must be understood that such letters do not represent a commitment on behalf of the Organising Committee or Conference to provide any financial assistance.

CERTIFICATE OF ATTENDANCE
Certificates of attendance will be available for all registered participants at the registration desk from April 21, 2012.

FOOD AND BEVERAGES
Box lunches and coffee area (as indicated in the programme) are included in the registration fee.
ABOUT SIENA
Surrounded by olive groves and the vineyards of Chianti, Siena is one of the most beautiful cities of Tuscany. Set on three hills, the city is drawn together by winding alleyways and steep steps, whilst the Piazza del Campo stands at its heart, and the Duomo and St Maria della Scala serve as additional cultural landmarks. Famed for the ‘Palio’, the annual historic horse-races that take place on 2 July and 16 August, it is also home to one of the oldest Universities in Europe, which ensures a vibrant Italian student atmosphere throughout the academic year. In addition to the bustling daily life of the streets and squares of the city, Siena offers many cultural events, concerts, cinema, theatre and a wide range of sporting activities. Few geographical areas in the world can boast of the variety of environment that surrounds Siena. To the north, we have the richness of the Chianti landscape, woven with vines and olive-trees throughout the hills. Here also are beautiful towns like San Gimignano and Monteriggioni with old walls, winding streets and incredible views. South of Siena, the Arbia valley leads to the hill-top town of Montalcino, home to the famous Brunello wine. And the area La Crete stretches out, amazing visitors with its harsh rock formations and unique landscape. Westwards we head towards the coast, to captivating coastline towns like Castiglione della Pescaia, and nature reserves like the area called Maremma. With such natural beauty within easy reach by car or public transport, Siena is a good place to base yourself for a Tuscan experience. The Chianti area, between Florence and Siena, is one of the most beautiful countrysides in Italy and a famous wine production area.

Access to Siena from the Airport

From Florence
‘Amerigo Vespucci’ Airport
Shuttle bus to S. Maria Novella railway station every 45 min

From Pisa
‘Galileo Galilei’ Airport (150 km)

By train
From Florence: direct line and/or change at Empoli (1h30’)
From Rome: change at Chiusi (3h)
From Pisa: change at Empoli (2h)
The railway station in Siena is about 2 km from the city centre

By bus
From Florence
Bus Station: opposite Santa Maria Novella Railway Station
Rapida bus (1h 15mins)

Diretta bus (1h 35 mins)
Autolinee TRAIN spa (Ph. +39 0577/204245)
Autolinee SITA (freephone: 800 - 373760)

From Rome
Bus Station: Roma Tiburtina (2h 45m)
SENA (freephone: 800 - 930960 - Ph. + 39 0577/283203)

By taxi
Radio Taxi Ph. +39 0577 49222

Parking
Should you arrive by car, the following parking areas are available:

Viale Bracci (fast park) 850m from Venue
Free parking is available, either with parking disk or without time limits, along the street. There is also a partially covered parking garage (indicated on the road signs as ‘Policlinico 2’)

Strada delle Scotte
Free parking is available, either with parking disk or without time limits, along the street. There is also a partially covered parking garage (indicated on the road signs as ‘Policlinico 1’)
General Information

Parking fees:
- 1 hour: 60 cents
- 2 hours: Euro 1,20
- 3 hours: Euro 1,80

The daily rate (Euro 2,00) goes into effect from the fourth hour

ITALIAN CME ACCREDITATION
The Conference has applied for Italian CME Accreditation

EXHIBITION
A professional exhibition will be held currently with the Conference. For more details, please contact:

***E MEETING & CONSULTING***
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

REGISTRATION FEES (21% VAT included)

**Participant**
- within December 30, 2011: € 300,00
- within February 14, 2012: € 350,00
- within April 8, 2012: € 400,00
- from April 9 and on site: € 500,00

**Midwife/Nurse/Post Graduate**
- within January 19, 2012: € 200,00
- within April 8, 2012: € 250,00
- from April 9 and on site: € 363,00

**Participant Low Income Countries**
- within January 19, 2012: € 250,00
- within April 8, 2012: € 303,00
- from April 9 and on site: € 363,00

Daily Registration € 182,00
REGISTRATION FEES INCLUDE
Admission to scientific sessions, technical exhibition
Final programme
Abstracts book
Coffee corners and box lunches
Opening ceremony
Certificate of attendance

ORGANIZING SECRETARIAT
Please do not hesitate to contact the Organisers if you require any additional information or assistance.
Please address all correspondence to:

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General Information