



FONDATION DE COOPÉRATION SCIENTIFIQUE  
SUR LA **GROSSESSE** ET LA **PRÉMATURITÉ**

PremUP symposium 2011

# " The bronchopulmonary dysplasia "

Friday April 1st 2011, Paris City Hall, France



Dear Friends and Colleagues,



You are cordially invited to attend the PremUp foundation's international scientific symposium in the reception room of the Hotel de Ville, Paris, on Friday 1th April 2011.

Despite considerable obstetric and neonatal advances in the care of very low birth weight neonates, bronchopulmonary dysplasia (BPD) continues to occur among 20 to 40% of surviving infants, and new ways for combating this disease must be found. BPD appears to result from arrested lung development, and is characterized by deficient alveolar septation and abnormal microvascular maturation. However, much of the research carried out on BPD prevention is hampered by our insufficient understanding of the specific control of distal lung development in humans. This symposium will provide an update on the latest advances in the molecular control of distal lung development. There is also accumulating evidence that genetic factors could affect susceptibility to BPD. This may permit alternative approaches to understanding the basic pathophysiology and treatment of BPD. Prevention of BPD remains a major objective in these very premature infants.

The symposium will discuss the different possible therapeutic approaches, including the most promising for the future.

This event will also provide an opportunity for young researchers, supported by the PremUp foundation and working in this field to present their most recent research work.

### Organisers:



**Prof Pierre Henri Jarreau,**  
Professor of Pediatrics, department of Neonatal Medecine of Port Royal,  
Hôpital Cochin, Inserm U 767 – University of Paris Descartes



**Prof Christophe Delacourt,**  
Professor of pediatric pulmonology, University Paris Descartes,  
Inserm U 955, Créteil

# Programme

(susceptible to modification)

8.15-8.45: **Welcome coffee**

8.45-9.00:

**Jean Louis Missika**, Deputy Mayor of Paris, responsible for innovation, research and universities

9.00 – 9.30:

**Jennifer Zeitlin**, Inserm UMR S 953, Research Unit on Perinatal Health and Women, Paris France and visiting associate professor (2010-2011), Department of Health Evidence and Policy, Mount Sinai Medical School, New York, USA

## **Respiratory complications in premature births: a European and international view**

9.30 – 10.00:

**Christopher Baker**, Assistant Professor in the Department of Pediatrics, University of Colorado School of Medicine and The Children's Hospital, Colorado, USA

### **Vascularisation and pulmonary development**

10.00 – 10.30:

**Olivier Boucherat**, Inserm IMRB-U955, France

### **Transcription factors and pulmonary development**

10.30 – 11.00:

**Prof Mikko Hallman**, Department of Pediatrics, University of Oulu, Oulu, Finland

### **Genetic aspects of DBP**

11.00 – 11.30: **Coffee break**

11.30 – 12.00

**Prof Henry Halliday**, Department of Child Health, Queen's University Belfast and Perinatal Medicine, Royal Maternity Hospital, Belfast, UK

### **Corticoids and BPD in 2011**

12.00 – 12.30

**Prof Jean-Christophe Mercier**, head of department in Pediatric A&E, Robert Debré Hospital, France

### **Nitrogen Monoxide and BPD**

[jean-christophe.mercier@cch.aphp.fr](mailto:jean-christophe.mercier@cch.aphp.fr)

12.30 – 13.00

**Christopher Baker**, Assistant Professor in the Department of Pediatrics, University of Colorado School of Medicine and The Children's Hospital, Colorado, USA

**Strain cells and treatment of BPD**

13.00 – 14.30: **lunch**

14.30-15.15

**Presentation of PremUp research work by young researchers:**

**Alice Hadchouel**, Inserm U 955

**Spocke 2 and genetic susceptibility to BPD**

**Emmanuel Lopez**, Inserm U 767, work supported by the Air Liquide Foundation

**Inflammation and pulmonary development**

**Elodie Zana-Taieb**, Inserm U 767

**BPD and IUGR**

15.15 – 15.45

**Pr Patrick Truffert**, Department of Perinatology, CHRU of Lille and Inserm UMR 953, Research Unit on Perinatal Health and Women, Paris, France

**Long term respiratory outcome in very and extreme preterm newborns: Epicure and Epicure results**

15.45 – 16.15: **Coffee break**

16.15 – 16.45

**Prof Elisabeth Draper**, Department of Health Sciences, University of Leicester, UK

**Impact of BPD on development: consequences for care → ou autre d'épicure ou kotecha**

16.45 – 17.15

**Prof Guy Sebag**, Head of department at the Medical Imagery and Physiology Centre - Robert Debré Hospital, Paris, France

**BPD imagery in neonatal period and at midterm: perspectives.**

# PremUp - Foundation for Scientific Cooperation on Pregnancy and Prematurity

## A foundation for scientific cooperation initiated by the authorities

- 6 founder members: Welfare Services of the Hospitals of Paris, Inserm, University of Paris Descartes, University Pierre et Marie Curie, University of Paris Diderot, University of Paris 12 Val-de-Marne.
- Unique in Europe, the PremUP foundation has real added value status in increasing our knowledge in the field of perinatology.

## An original strategy including care of mother and child for:

- protecting the health of the pregnant woman
- preventing premature birth
- protecting the premature baby.

## A network of internationally recognised researchers and medical staff

### Three level 5 perinatal centres

The care cluster of the PremUP Foundation consists of five type III perinatal centres: the maternity and neonatal units of the Cochin-Port Royal Hospital, the Robert Debre Hospital, the Antoine Beclere Hospital, the Armand Trousseau Hospital and the Creteil Intercommunal Hospital.

With nearly 17,000 births a year and perinatal care organized into networks (including 69 maternity units representing 101,500 births per year) the PremUp network is the largest perinatal activity organization in the Ile de France region.

### An excellent pole of research

Nearly 100 researchers representing 16 areas of academic research are increasing our knowledge of:

- The influence of the maternal environment on placental function, foetal growth and the prospects for the child.
- The physiopathology of premature delivery and cerebral and pulmonary lesions in the premature baby.
- Research into predictive biomarkers and the development of new tools of medical imaging.
- Research into treatment to prevent premature delivery.
- Pharmacological protection of the brain and lungs of the premature new-born.

### An indispensable teaching pole

- Every year 1000 hours of academic and practical instruction in perinatology are offered in the Faculties of Medicine, Science, and Pharmacy, in the School of Midwifery and within the framework of continuing medical training.