



I.O. Phd International Research Program

Founders

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(Maastricht, The Netherlands)

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(Alessandria, Italy)

F. van Bel, MD, PhD
(Utrecht, The Netherlands)

G.H.A. Visser, MD, PhD
(Utrecht, The Netherlands)

H. Vles, MD, PhD
(Maastricht, The Netherlands)

L.J. Zimmermann, MD, PhD
(Maastricht, The Netherlands)

Scientific Secretary

F. Fenuccio
(Rome, Italy)

Supported by

The Italian Society of Neonatology
(Milan, Italy)

Neonatal Biochemical Research Group
(Milan, Italy)

Let's Improve Perinatal Life Foundation
(Genoa, Italy)

TO WHOM IT MAY CONCERN

Object. The I.O. PhD Program – Project, Submission Form

Dear Candidates,

enclosed, please find Project Submission Form for 2010-2012 I.O. PhD Program. Please, be sure that all items are completed.

Submission form plus a copy of CV and of two letters of presentations by experts in the research field of PhD program application have to be sent by fax or e-mail to the following address:

I.O. PhD Program
c/o Stella Cometa O.N.L.U.S.
Viale delle Milizie, 34 - 00192 Rome - Italy
fax +39 (06) 3729067
e-mail: iophd@hotmail.com

DEADLINE MAY 15, 2010

Looking forward to receive your outstanding research application, we remain.

Sincerely,

The I.O. PhD Scientific Commission



I.O. Phd International Research Program

Candidates Characteristics and Selection

Candidates suitable for PhD program will come from the following groups:

- Specialty trainers that, according to Italian University Statements, can perform clinical and experimental studies at the Italian and Dutch Institutions.
- Staff Members.
- Research Fellows.

The selection of candidates will be performed according to the following steps:

- promotion of the PhD selection on the official web-site of the Italian Society of Neonatology (www.neonatologia.it), on other neonatal scientific website (www.neonatologia.org) and on C. Arrigo Children's Hospital web-site (www.ospedale.al.it);
- at the indicated selection times, candidates (age < 35 years) will submit a project proposal related to one of the topics plus their curriculum vitae (CV) and two letters from international researchers or chairmen;
- International Commission will review candidates' proposals and CV and if necessary interview them.
- According to different PhD topics International Commission will award one or more candidates.

The research topics selected are the following:

- 1. PERINATAL ASPHYXIA,**
- 2. THE ORIGIN OF ADULT NEUROLOGICAL DISEASE,**
- 3. NEUROPROTECTIVE STRATEGIES,**
- 4. NEONATAL BIOCHEMICAL PULMONOLOGY,**
- 5. IUGR,**
- 6. PERINATAL TERATOLOGY.**

A detailed description of the research project application is reported in the research project description section.



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RESEARCH PROJECT DESCRIPTION



Universiteit Utrecht

Department of Perinatal Medicine.

G.H.A. Visser, MD, PhD

F. van Bel, MD, PhD



Sistema Sanitario Regionale Piemonte

Azienda Ospedaliera Nazionale

SS. ANTONIO e BIAGIO

e CESARE ARRIGO

Alessandria

Department of Maternal, Fetal and Neonatal Medicine.

D. Gazzolo, MD, PhD

Total PhD Candidates: 4

PhD Defence at the Utrecht University School of Medicine, Utrecht, The Netherlands

Project List

#1. The Use of Antidepressant Drugs during Pregnancy: Risk for Mother and Child.

PhD Candidate: 1

Project requires an experimental and clinical proposal including potential:

- biochemical markers of brain development/damage assessment in different biological fluids, in maternal and neonatal districts;
- human milk investigation;
- non-invasive brain monitoring procedures;

aimed at investigating in the perinatal period the Central Nervous System development/damage in fetuses and newborns whose mother were antenatally treated by antidepressant drugs.



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#2. New Strategies in Brain Development Monitoring in IUGR Fetuses and Newborns.

PhD Candidate: 1

Project requires an experimental and clinical proposal including potential:

- biochemical markers of brain development and damage;
- non-invasive brain monitoring procedures;

aimed at investigating in the perinatal period the Central Nervous System development/damage in fetuses and newborns complicated by intrauterine growth retardation.

#3. Pregnancy Induced Hypertension, Antihypertensive Drugs and the Development of Fetal-Neonatal Central Nervous System

PhD Candidate: 1

The project requires an experimental and clinical proposal including potential:

- biochemical markers of brain development and damage;
- non-invasive brain monitoring procedures;

aimed at investigating in the perinatal period the Central Nervous System development/damage in fetuses and newborns whose mother where antenatally treated by antihypertensive drugs.

#4. New therapeutic strategies for brain damage prevention In acute and chronic hypoxia newborns

PhD Candidates: 1

The project requires an experimental and clinical proposal including potential:

- Maternal and Neonatal therapeutic strategies for brain damage prevention in acute and chronic hypoxia newborns ;
- Brain development and damage monitoring strategies (biochemical and non-invasive)
- New laboratory and non-invasive technologies.



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Department of Pediatrics, Neonatology and Child Neurology

L. Zimmermann, MD, PhD
H. Vles, MD, PhD
A.W.D. Gavilanes, MD, PhD



Sistema Sanitario Regionale Piemonte
Azienda Ospedaliera Nazionale
**SS. ANTONIO e BIAGIO
e CESARE ARRIGO**
Alessandria

Department of Maternal, Fetal and Neonatal Medicine.

D. Gazzolo, MD, PhD

Total PhD Candidates: 6

**PhD Defence at the Maastricht University School of Medicine,
Maastricht, The Netherlands**

Project List

#1. Experimental and Clinical Hypoxic Ischemic Encephalopathy and Asphyxia:
Systemic Aspects

PhD Candidates: 2

Project requires a proposal on clinical and experimental application on:

- biochemical monitoring on hypoxic ischemic insult requiring hypothermia and/or different therapeutic procedures in newborn infants complicated by asphyxia and/or by congenital heart diseases;
- acute and chronic cardiac remodelling/changes after hypoxic insult.

#2. Experimental and Clinical Hypoxic Ischemic Encephalopathy and Asphyxia:
Brain Aspects

PhD Candidates: 2

Project requires a proposal on clinical and experimental application on:

- biochemical monitoring on hypoxic ischemic insult in non-invasive biological fluids
- acute and chronic brain remodelling/changes after hypoxic insult.
- Brain immunohistochemistry and molecular biology investigations.



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#3. Experimental and Clinical Neonatal Pulmunology

PhD Candidates: 2

Project requires a proposal on clinical and experimental application on:

- Invasive and non-invasive new mechanical ventilation strategies in respiratory distress syndrome management;
- Non-invasive and biochemical lung monitoring in respiratory distress syndrome according to different ventilation strategies;
- Experimental invasive and non-invasive ventilation model.

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Viale delle Milizie, 34 - 00192 Rome - Italy - ph. +39 0637411175 - fax +39 063729067 - iophd@hotmail.com

Submission Form (Deadline, May 15, 2010)

Name.	
Surname.	
Degree.	
Title.	
Date and Place of Birth.	
Institution.	
Department.	
Address.	
City Code.	
Ph.	
Mobile.	
Fax.	
e-mail.	
Research Topic.	
Project Title Proposed.	

Submission Check-list

	Yes	No
Application Form	<input type="checkbox"/>	<input type="checkbox"/>
Curriculum Vitae	<input type="checkbox"/>	<input type="checkbox"/>
Letter of Intent	<input type="checkbox"/>	<input type="checkbox"/>

Signature

Printed Name

Date

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Application (max 300 words)

Objective.

Design.

Setting.

Population.

Interventions.

Expected Results and Conclusions

Key-words (max 5).

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Short Title (max 40 characters)
