



*International Society of Antioxidants in  
Nutrition and Health*

*2<sup>nd</sup> World Congress on*

## **Fertility & Antioxidants Therapy 2012**

*Strategies to Overcome Male & Female Infertility*

*Successful ICSI & Fecundation*

*Pre-Eclampsia & Endometriosis*

### **Fertility & Antioxidants Therapy 2012**

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Male & Female Infertility**

**Successful ICSI & Fecundation**

**Pre-Eclampsia & Endometriosis**

**December 6-7, 2012 – Paris, France**

*December 6-7, 2012*

*Palais Brongniart - Paris, France*

# Fertility & Antioxidants Therapy 2012

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## Fertility & Antioxidants Therapy 2012

*"...Fertility & Antioxidants 2012: It is time to talk and highlight a critical role of antioxidants..."*

Dear Colleagues,

It is our great pleasure to announce the **2<sup>nd</sup> World Congress on Fertility & Antioxidants: Strategies to Overcome Male & Female Infertility** to be held in **Paris, France** in **December 6-7, 2012**.

**Fertility & Antioxidants 2012** will highlight cutting-edge advances in oxidative stress effects and impacts in infertility. The Scientific Committee will highlight also the recent innovations and applications of antioxidants to prevent and treat infertility. These two days event will feature recent findings from leading industrial, clinical and academic experts in the field, in the form of lectures and posters.

During **Fertility & Antioxidants 2012**, the Scientific Committee will allocate significant time to discuss the **latest advances and controversies** related to scientific and clinical studies concerning oxidative stress and antioxidants effects and impacts in fertility. Our objective is **to provide answers and to give a future vision of how Oxidative Stress can be controlled and modulated to limited infertility and degenerative diseases**, and in particular **how antioxidants can help in the prevention and treatment of many chronic diseases**.

The meeting, which brings together delegates from the healthcare industry from all over the world, is one of the most important platforms for professional exchange in the field of fertility and antioxidants and related disciplines. **Fertility & Antioxidants 2012** will target all medical doctors, researchers and academics, R&D departments, clinicians, pharmaceutical companies, food supplement companies, marketing departments...

This is an incredible opportunity to showcase a basic research or clinical findings in the various thematic sessions (stated below), covering both pre-clinical and clinical research:

- ***Oxidative Stress and Infertility: Recent Advances and Controversies***
- ***Gynecological Pathologies & Oxidative Stress***
  - *Endometriosis*
  - *Pre-eclampsia*
  - *Other gynecological pathologies*
- ***Fertility & In Vitro Fecundation***
  - *Methods to Evaluate Oxidative Stress and ROS to optimize Antioxidants Strategies*
  - *ICSI and Fecundation*
- ***Potential Applications of Antioxidants in Infertility: the Antioxidants Therapy***

### Special Academics, Scientist Researchers and Industrials Platform

The aim of this platform is to bring together all actors involved in Fertility & Antioxidants Area, and especially on oxidative stress evaluation, ROS measurement and ICSI applications. Academics, researchers and industrials are invited to provide their last innovations to medical doctors, gynecologists and specialists of in vitro and vivo fecundation.

A Roundtable discussion with speakers and the Scientific Committee will be held at the end of the Conference. The following theme will be discussed: **How can we manage Reactive Oxygen Species insults? Which treatment for which problem?**

We look forward to welcoming you in Paris in December.

**Pr Marvin Edeas**

Chairman of the Scientific Committee

# Fertility & Antioxidants Therapy 2012

## Scientific Committee:

**Joël R. Drevet**, Adjunct-director GReD, CNRS UMR 6293- INSERM U1103, Clermont Université, Aubière, France

**Marvin Edeas**, Chairman of ISANH, Paris, France

**René Frydman**, Hospital Foch, Paris, France

**Rachel Levy**, Hospital Jean Verdier, Bondy, France

**Sachiko Matsuzaki**, CHU Clermont-Ferrand, University of Auvergne, Clermont-Ferrand, France



## Among Speakers:

**Juan Alvarez**, Director, Male Infertility Centre Androgen, La Coruna, Spain

**Alessandra Ferramosca**, University of Salento, Lecce, Italy

**Joaquim Gadea**, Department of Physiology, University of Murcia, Murcia, Spain

**Parviz Gharagozloo**, President & CEO, Celloxess LLC, Pennington, USA

**Alfonso Gutiérrez-Adán**, Department of Animal Reproduction, INIA, Madrid, Spain

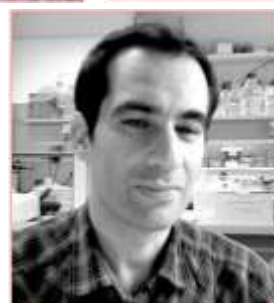
**Enrico Papaleo**, Centro Natalità, IRCCS San Raffaele, Milan, Italy

**Lodovico Parmegiani**, Director, IVF Laboratory, GynePro Medical Centers, Bologna, Italy

**Gloria I. Perez**, Associate Professor, Department of Physiology, Michigan State University, East Lansing, USA

**Nalini Santanam**, Joan C Edwards School of Medicine, Marshall University, Huntington, USA

**Daniel Vaiman**, Hopital Cochin, Paris, France



# Fertility & Antioxidants Therapy 2012

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## Fertility & Antioxidants Therapy 2012

**DAY 1: DECEMBER 6, 2012**

**7h45** Registration

**9h00** Welcome Note by Marvin Edeas & Scientific Committee

**9h05** General Introduction of Fertility & Antioxidants Therapy 2012  
*René Frydman, Hospital Foch, Paris, France*

### **SESSION 1: Oxidative Stress and Infertility: Recent Advances and Controversies**

**9h20** Oxidative Stress & Antioxidants: Recent Advances, Controversies and Perspectives  
*Marvin Edeas, Chairman of ISANH, Paris, France*

**9h50** Mouse Murine Models of ROS-damaged Sperm Nucleus to test the Efficiency of Oral Antioxidant Therapies  
*Joël R. Drevet, Adjunct-director GReD, CNRS UMR 6293- INSERM U1103, Clermont University, Aubière, France*

**10h20** Discussion

**10h30 Break & Posters Session**

### **SESSION 2: Gynecological Pathologies & Oxidative Stress**

*Pre-Eclampsia, Endometriosis & Other Pathologies*

**11h00** Oxidative Stress, Antioxidants and Endometriosis  
*Sachiko Matsuzaki, CHU Clermont-Ferrand, University of Auvergne, Clermont-Ferrand, France*

**11h30** Antioxidants and the Genetics of Pre-Eclampsia  
*Daniel Vaiman, Hopital Cochin, Paris, France*

**12h00** Discussion

**12h30 Lunch Break & Posters Session**

### **SESSION 3: Fertility and In Vitro Fecundation**

*Methods to Evaluate Oxidative Stress and ROS to optimize Antioxidants Strategies  
ICSI (Intra Cytoplasmic Sperm Injection) and Fecundation*

**14h00** Cryopreservation of Spermatozoa and Oxidative Stress: Recent Findings & Solutions  
*Joaquim Gadea, Department of Physiology, University of Murcia, Murcia, Spain*

**14h30** A plea for a more physiological ICSI

- The selection of the ideal spermatozoa for ICSI by restoring basic checkpoints of human fertilization
- In vitro selection of DNA-strandbreak-free spermatozoa

*Lodovico Parmegiani, Director, IVF Laboratory, GynePro Medical Centers, Bologna, Italy*



# Fertility & Antioxidants Therapy 2012

## 15h00 Oxidative Process and Sperm Epigenome

**Alfonso Gutiérrez-Adán**, Department of Animal Reproduction, INIA, Madrid, Spain

## 15h30 Break & Posters Session

### Short Oral Presentations for Sessions 1, 2 & 3

## 16h00 Aspects of Micronutrient Supplementation in ART Patients with Hashimoto's Thyroiditis

**Johannes Wogatzky**, IVF Zentren Prof. Zech, Brengen, Austria

## 16h10 Influence of Myeloperoxidase Activity on Equine Post-Thaw Semen Quality

**Jérôme Ponthier**, Centre de l'Oxygène Recherche et Développement (CORD), Liege, Belgium

## 16h20 Diabetes Mellitus Complications: Oxidative Stress and Infertility

**Andrejs Skesters**, Riga Stradins University, Riga, Latvia

## 16h30 High Leucocyte Concentration is Related to Oxidative DNA Damage and Lipid Peroxidation in Frozen-Thawed Rodeo Bull Semen

**Janaina Torres Carreira**, Centro Universitário de Rio Preto - UNiRP, São José do Rio Preto, Brazil

## 16h40 Leukocytospermia improves Sperm Fertilizing Ability and Clinical Pregnancy Rate after ART

**Nathalie Le Foll**, Hôpital Cochin AP-HP, Université Paris Descartes, Paris, France

## 16h50 SIRT1 Plays a Main Role in the Adaptive Response to Oxidative Stress in Mammalian Oocytes and is differentially Regulated during Reproductive Aging

**Carla Tatone**, University of L'Aquila, L'Aquila, Italy

## 17h00 Novel Unstable Markers in Ovarian Tumor Initiation, Progression and Infertility Resulting from Oxidative Stress

**Harold Moreno-Ortiz**, Fertility and Sterility Colombian Center, Bogota, Colombia

## 17h10 Evaluation of 8-Hydroxy,2-Deoxyguanosine in Human Sperm: Relationship with Semen Quality

**Elisabetta Baldi**, University of Firenze, Firenze, Italy

## 17h20 IMSI allows to by-Pass the Deleterious Effect of Sperm DNA Fragmentation observed in IVF and ICSI

**Paul Cohen-Bacrie**, Laboratoires Eylau-Unilabs, Paris, France

## 17h30 Did Oocytes with Granular Cytoplasm have Consequences on IVF Outcome and is it possible to detect an Impact of Environmental Factors explaining Oocyte Aspect?

**Philippe Merviel**, Amiens University Hospital, Amiens, France

## 17h40 End of the first day

## 19h30 Thursday's Dinner (for speakers & attendees)

*If you wish to join us, please let us informed.*

# Fertility & Antioxidants Therapy 2012

## DAY 2: DECEMBER 7, 2012

### SESSION 4: Antioxidants Therapy & Fertility

*Male & Female Fertility*

**9h30 Obesity & Impact on Male Infertility: The Antioxidants Strategies**

**Rachel Levy**, Hospital Jean Verdier, Bondy, France

**10h00 The Role of Sperm Oxidative Stress in Male Infertility and the Significance of Oral Antioxidant Therapy**

**Parviz Gharagozloo**, President & CEO, CellOxess LLC, Pennington, USA

#### 10h30 Break & Posters Session

**11h00 Antioxidants Therapy in the Treatment of Female Infertility: Recent Advances & Perspectives**

**Enrico Papaleo**, Centro Natalità, IRCCS San Raffaele, Milan, Italy

**11h30 Prostaglandin-Like Lipid Oxidation Products in the Peritoneal Fluid of Women with Endometriosis Respond to Antioxidant Therapy**

**Nalini Santanam**, Joan C Edwards School of Medicine, Marshall University, Huntington, USA

**12h00 Oxidative Stress & Male Infertility: The Clinician Point of View**

**Juan Alvarez**, Director, Male Infertility Centre Androgen, La Coruna, Spain

#### 12h30 Lunch Break & Posters Session

**14h00 Mitochondria and Fertility: the Mitochondria Critical Role on Spermatozoa Function**

**Alessandra Ferramosca**, University of Salento, Lecce, Italy

**14h30 Mitochondria, Fertility & Aging Oocytes: The Perfect Target**

**Gloria I. Perez**, Associate Professor, Department of Physiology, Michigan State University, East Lansing, USA

#### Short Oral Presentations for Session 4

**15h00 Effectivity of a Novel Nutraceutical for the Complementary Treatment of the Infertile Couple and in ART**

**Win Decleer**, Fertility-Belgium, Aalter, Belgium

**15h10 Crocin Promotes In Vitro Sperm Capacitation of Bovine Sperm**

**Maria Tsantarliotou**, Aristotle University of Thessaloniki, Greece

**15h20 The Protective Roles of Red Palm Oil, Rooibos and Green Tea Supplementation on Male Reproductive Function**

**Yapo Guillaume Aboua**, Cape Peninsula University of Technology, Bellville, South Africa

#### 15h30 Break & Posters Session

**16h00 Discussion: The Determination of what the Basal Level of ROS is in Human Semen may be used to Identify Pathologic ROS Levels in Infertile Men**

*How to Standardize all Methods Related to Oxidative Stress & fertility?*

*How to Compare the Efficiency of Antioxidants Supplements?*

**16h45 Fertility & Antioxidants Awards 2012**

**17h30 End of Fertility & Antioxidants 2012**



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# *Fertility & Antioxidants*

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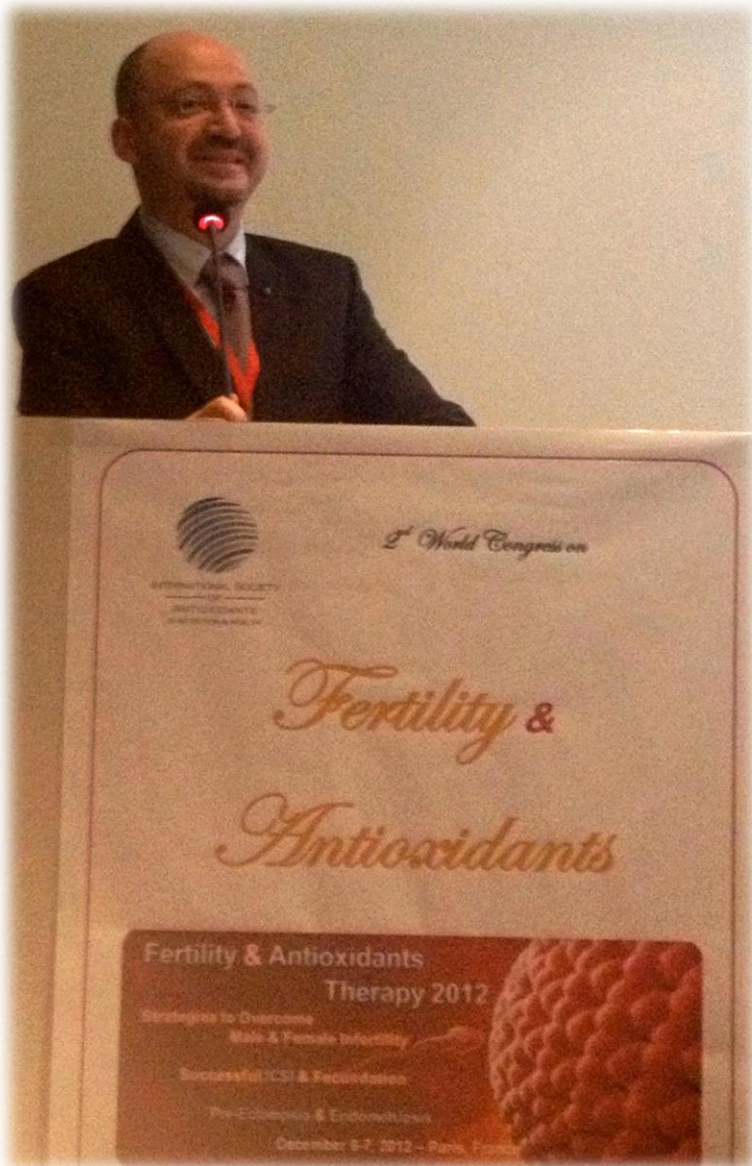
**Pre-Eclampsia & Endometriosis**

**December 6-7, 2012 – Paris, France**

*6-7 December, Paris*

## Pr Marvin Edeas

Chairman of Scientific Committee



## Pr Joël Drevet

Scientific Committee



# *Thanks to all Speakers*

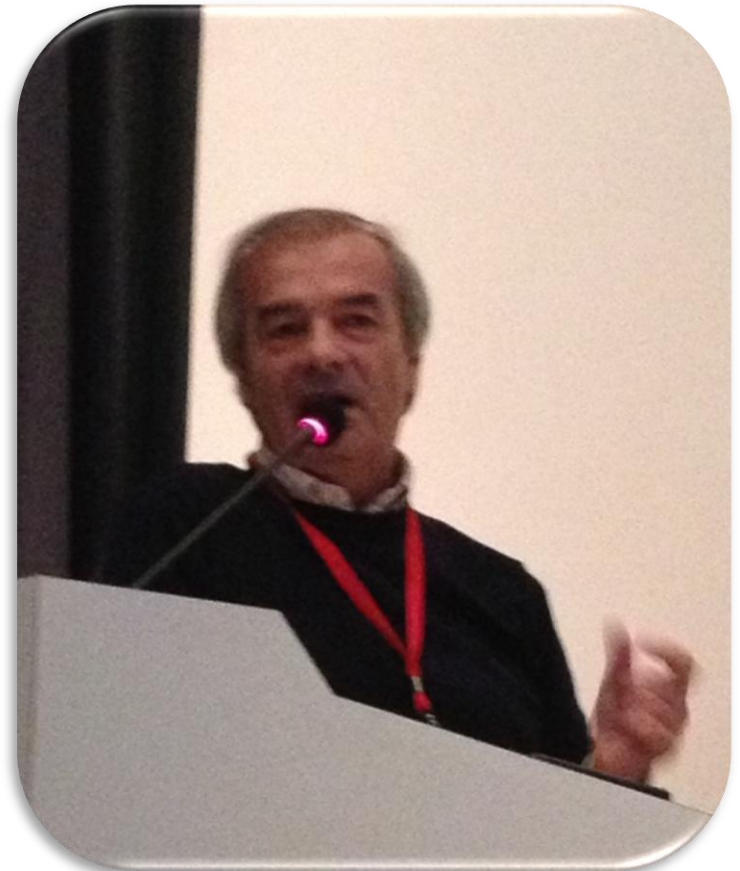
*Pr René Frydman*

Hopital Foch – Paris



*Pr Juan Alvarez*

Androgene Centre, La Coruna



*Dr. Joaquin Gadea*

University of Murcia



*Dr. Daniel Vaiman*

Hopital Cochin, Paris



*Dr Parviz Garagozloo*

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IRCCS San Raffaele





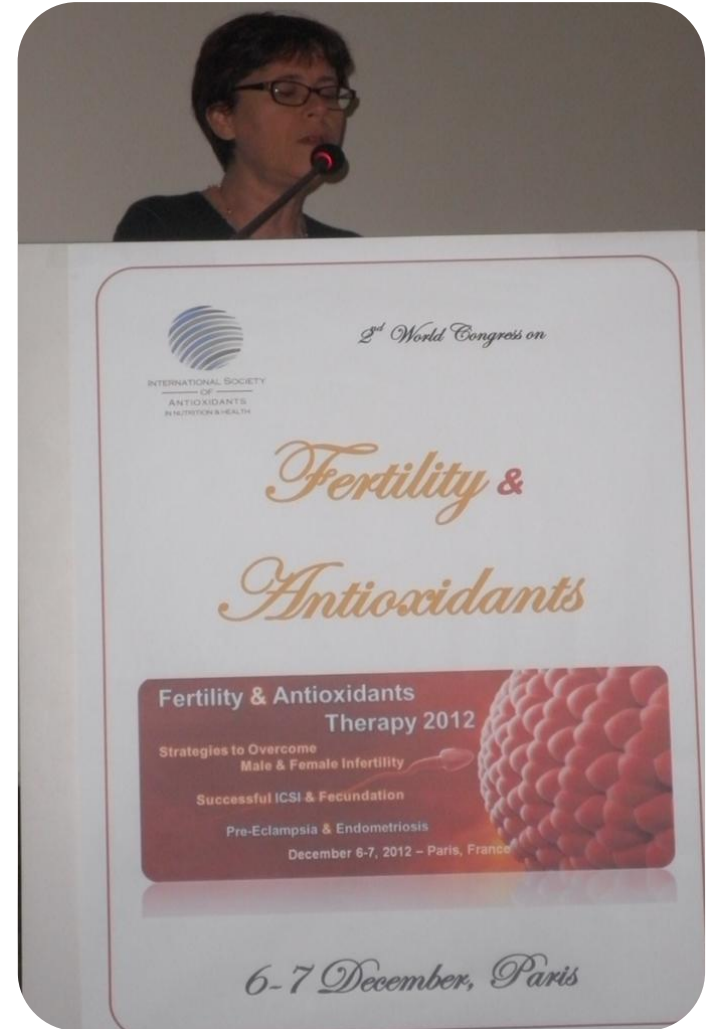
*Dr Alfonso Gutierrez-Adan*

INIA, Madrid



*Pr Rachel Lévy*

Hopital Jean Verdier, Bondy





*Pr Gloria Perez*  
Michigan State University



*Dr Sashiko Matsuzaki*  
CHU Clermont-Ferrant



*Dr Lodovico Parmegiani*  
GynePro Medical Centre, Bologna



*Dr Alessandra Ferramosca*  
University of Salento







*Chairmen of First Day* (from Left to Right):

**Dr Alfonso Gutierrez-Adan, Pr Juan Alvarez, Pr Joël Drevet**





*Chairmen of Second Day* (from Left to Right):

**Pr Rachel Lévy, Pr Joël Drevet, Dr Nalini Santanam**







*Thanks to all Attendees*









# Thanks to Exhibitors



*Lenus Pharma*  
Austria

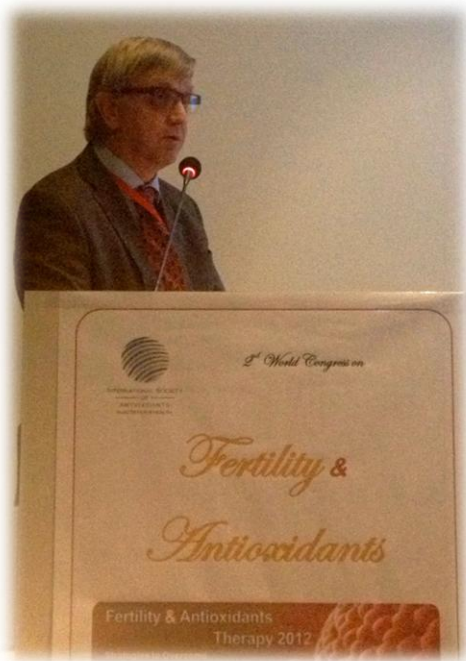




# *High Quality Short Oral Presentations*

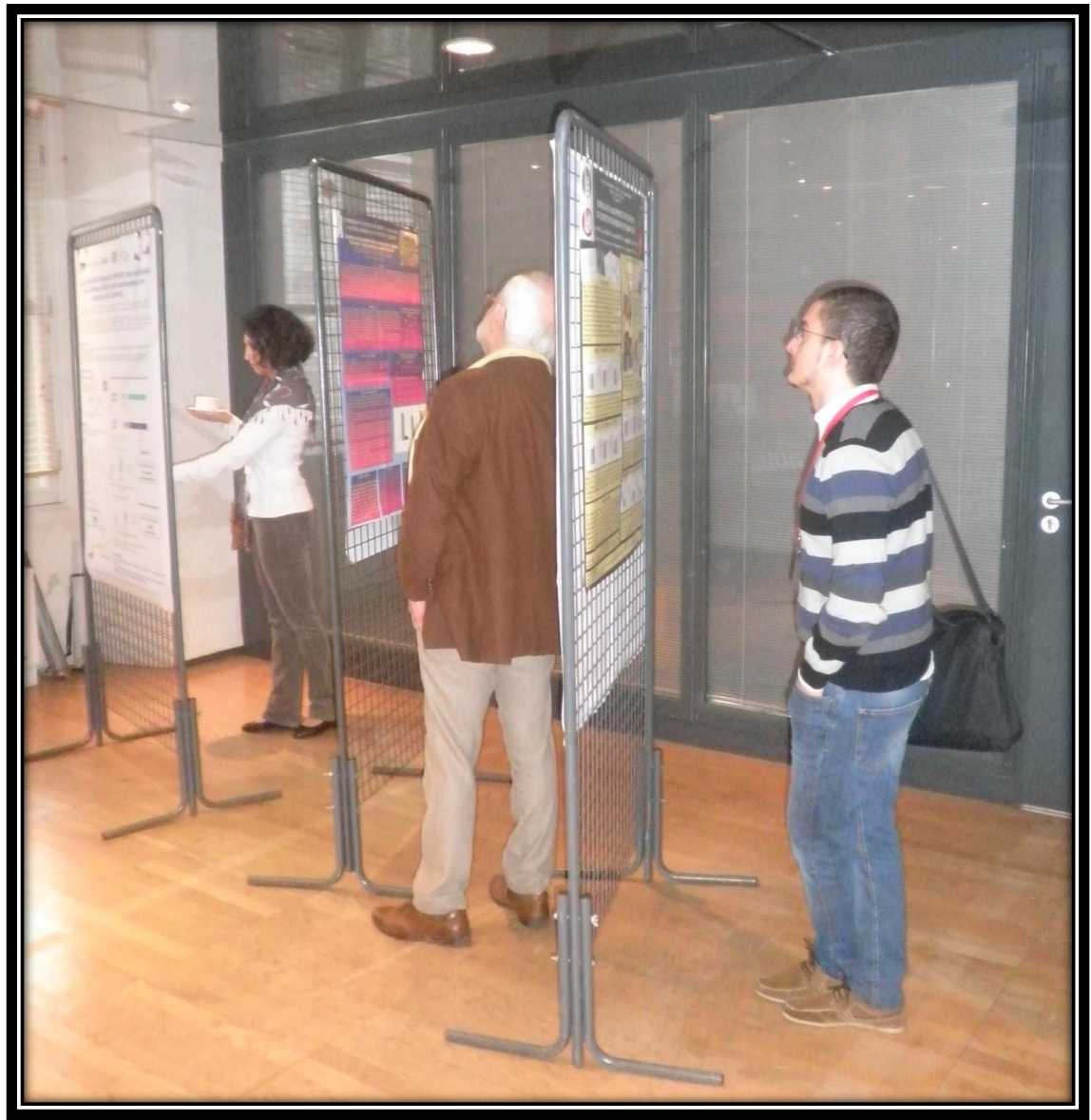








*Various  
Posters  
Presentations*







# *Two Scientific Contribution Awards Discerned*

*Pr Joël Drevet*



*Pr Nikolay Nifantiev*



































*Thank you Again &  
See you in 2013*



*[www.fertility-site.com](http://www.fertility-site.com)*