



PROGRAMME  
NATIONAL  
DE RECHERCHE  
SUR LES  
PERTURBATEURS  
ENDOCRINIENS

## International Workshop

21 & 22 January 2016  
Institut Pasteur, Paris



# ENDOCRINE DISRUPTORS EFFECTS ON WILDLIFE AND HUMAN HEALTH

## *PROGRAMME*



anses  
agence nationale de sécurité sanitaire  
alimentation, environnement, travail





**Thursday 21 January 2016**

8h00 *Welcome*

9h00 *Introduction to the PNRPE International workshop. French Ministry of Ecology, Sustainable Development and Energy  
French agency for food, environmental and occupational health & safety.  
MORTUREUX, M., Director-General. Anses. France*

### **Session 1 – Effect of endocrine disruptors on wildlife**

9h20 *Plenary conference on Effect of Endocrine Disruptors on migratory species: global decline.  
MORRISSEY, C. University of Saskatchewan. Canada.*

10h05 *Oral communications*

Integrated modeling of endocrine disruption in zebrafish at different biological levels (MOZAIC).

*BEAUDOUIN, R., et al. Ineris. Verneuil en Halatte. France*

Thyroid active pesticides identified using the Xenopus Embryonic Thyroid Signaling Assay.

*SEBILLOT, A., et al. Watchfrog. Paris. France*

Identification of Embryonic Periods Sensitive to Disruption of Sex Determination in a Model Fish.

*SPIRHZANOVA, P., et al. Watchfrog. Paris, France*

10h55 *Poster Session and Coffee break*

### **Session 2 – Metabolic Disorders, Diabetes related to Endocrine Disruptors.**

11h30 *Plenary conference on Association between EDC exposure and the induction of insulin resistance and/or disruption of pancreatic-cell function*

*FENICHEL, P. Centre de Maladies Endocriniennes Rares, Pédiatriques et Adultes. CHU Nice. France*

12h05 *Oral communications*

Association between urinary bisphenol A-glucuronide and the incidence of type 2 diabetes in the French prospective cohort study D.E.S.I.R.

*RANCIERE, F., et al. Inserm. Paris. France*

Dysregulations of mucosal and systemic immune responses at adulthood after perinatal exposure to bisphenol A (BPA): possible involvement in food adverse reactions and inflammatory diseases.

*GUYZYLACK-PIRIU, L., et al.* Toxalim. Toulouse. France

Seasonal Variation in Urinary UV filters in Danish Children Aged 3-5 Years.

*KRAUSE, M., et al.* Rigshospitalet, University of Copenhagen. Denmark

13h05 *Poster session and Lunch*

### **Sessions 3 - Epigenetic and Transgenerational Effects of Endocrine Disruptors**

14h30 **Plenary conference on Epigenetic and Transgenerational effects of Endocrine Disruptors**

*BOURGUIGNON, JP.* Department of Endocrinology, University-Hospital of Liège, Belgium

15H05 **Oral communications**

Estrogen receptor beta regulates locus-specific DNA methylation – a possible mechanism for Epigenetic effects of endocrine disruptors.

*DUONG, W., et al.* Science Research Center. Sweden.

Exposure to phthalates and male infertility: role of the genetic background in the epigenetic response.

*PAOLONI GIACOBINO, A., et al.* University of Genève/ Medical School. Switzerland.

Pregnancy Exposure to Select Phenols and Phthalates and Pulmonary Function in Five Year-Old Male Offspring.

*VERNET, C et al.,* Université de Grenoble. France

16h05 *Poster session and Coffee break*

### **Sessions 4 - Effects of Endocrine Disruptors on the Reproductive Systems**


16h30 **Plenary conference. Endocrine Disruptors and Couple Fecundity**

*BUCK-LOUIS, G.* NIEHS, USA

17h05 **Oral communications**

Steroid production and gonad formation are regulated by the most used anti-diabetic drug, metformin.

*FAURE, M., et at.* INRA-Nouzilly, France



Phthalates and male reproductive health: Implementation of a novel cross-over design.

*HAUSER, R., et al.* CTIS. Rillieux La Pape, France

Vulnerability of the neural circuitry involved in the expression of male sexual behavior to adult exposure to low doses of endocrine disruptors

*DOMBRET C., et al.* Inserm-CNRS. UPMC. Paris, France.

Monitoring TDS indicators in France: updated results.

*LE MOAL, J., et al.* InVS. Saint Maurice, France

**18h25**

**End of session**

**18h30**

**COCKTAIL**

**Friday 22 January 2016**

8h30 *Welcome*

### **Session 5 – Mixtures**

9h00 *Oral communications*

Effect of mixtures of endocrine disruptors in zebrafish: the MIXEZ project.  
*HINFRAY, N., et al.* Ineris. Verneuil en Halatte, France

A chronic exposure to EAS mixtures including bisphenol A, vinclozolin and genistein affects the reproductive axis and testicular transcriptome of the unexposed progeny of exposed fathers.

*EUSTACHE, F., et al.* Hôpitaux Universitaires Paris et Seine-Saint-Denis, France

Mixture of chemicals found in amniotic fluid disrupt thyroid signaling and brain development.

*FINI, JB., et al.* CNRS/MNHN. Paris, France

Steroid Low-dose effects: experimental challenges for endocrine disruption.  
*PIERSMA, A., et al.* RIVM, Bilthoven, Netherlands.

Synergistic Activation of Human Xenobiotic Receptor by Binary Cocktails of Pharmaceutical and Environmental Compounds.

*DELFOSSÉ, V., et al.* Centre de Biochimie Structurale, Montpellier, France

An assessment of the effects of chemical mixtures found in meat on human PXR activation: application of the concentration addition model.

*DE SOUSA, G., et al.* Toxalim, INRA, Toulouse, France.

11h00 *Posters Session and Coffee Break*

### **Session 6 – Effects of BPA and BPA Substitutes**

11h30 **Plenary conference. Are Bisphenol A substitutes safe?**

*HABERT, R.* CEA. Paris, France


12h05 *Oral communications*

Bisphenol S promotes obesity in male mice fed to high fat diet.

*Del MORAL-IVRY, L., et al.* Inserm, AgroSup, Dijon, France

Bisphenol A affects enamel quality and exacerbates dental fluorosis by modulating the expression of a restricted number of genes.

*JEDEON, K., et al.* Inserm-Universities Paris 5, 6 et 7. Paris, France



Developmental exposure to related substitutes of bisphenol A alters murine and human female germ cells.

*GUERQUIN, MJ., et al.* CEA/Inserm. Paris, France

13h05 *Posters Session and Lunch*

### **Session 3 – Expertise, Risk Assessment and Economic Cost**

14H00 *Plenary conference on Health and Economic Cost exposure to EDs in Europe.*

*TRASANDE, L.* New York University, School of Medicine, New York, USA.

14h35 *Oral communications*

Benefits for public health from exposure reduction to the endocrine disruptor pesticide chlordecone in Guadeloupe, the BAREPE project.  
*NEDELLEC, V., et al.* VNC, Poissy/ CNAM-Paris, France

Toolkit for uncertainty and knowledge quality analysis of endocrine disruptors' risk assessments: the case study of Bisphenol A (Dico-Risk).  
*BLANCHEMANCHE, S., et al.* CNRS, University of Lille. Lille, France

Endocrine disruptors: Challenges for Anses.  
*ROUSSELLE, C.* Anses. Maisons Alfort, France

15H35 **Conferences of Guest speakers**

Programme not finalized

17h30 **Conclusions**

French Ministry of Ecology, Sustainable Development and Energy.

### **Scientific Committee of the conference**

DEMENEIX Barbara (head of committee); LASFARGUES Gérard; SKAKKEBAEK Niels Erik; SLAMA Rémy.

### **Board Organization Committee of the conference**

COUDERC-OBERT Céline (MEDDE-CGDD-DRI); GUST Marion; MOULIN Lionel (MEDDE-CGDD-DRI); SLAMA Rémy (Head Scientific Council of the PNRPE); CERVANTES Paulina (Anses)

### **Local Organization**

PUISEUX Sabine ; LAURENT Louis (Anses)

## **National Endocrine Disruptor Research Program (PNRPE)**

The aim of the national endocrine disruptor research program (PNRPE) is to support fundamental and applied research for those involved in public action on endocrine disruption issues. The program is conducted and financed by the French Ministry of sustainable development (General sustainable development commission, Research and innovation division); the scientific coordination of the program is insured by the French agency for food, environmental and occupational health and safety (Anses).

Further information: <http://www.pnrpe.fr>



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 <p><i>Liberté • Égalité • Fraternité</i> RÉPUBLIQUE FRANÇAISE</p>
 <p>Ministère de l'Écologie, du Développement durable et de l'Énergie</p>

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