

INSECTS, PATHOGENS, AND PLANT REPROGRAMMING: FROM EFFECTOR MOLECULES TO ECOLOGY

5 – 7 October 2015

Hôtel de Ville – Place Jean Jaurès, Tours, France



CONVENORS

- **Professor Marion HARRIS , LE STUDIUM® RESEARCH FELLOW**
on sabbatical leave from North Dakota State University, Fargo, ND - USA, in residence at IRBI (Institut de Recherche sur la Biologie de l'Insecte – UMR 7261 – CNRS/University François Rabelais of Tours) - Tours, France.
- **Doctor David GIRON, CNRS Research Director**
IRBI (Institut de Recherche sur la Biologie de l'Insecte – UMR 7261 – CNRS/University François Rabelais of Tours) - Tours, France

MAIN TOPICS OF THE CONFERENCE

- Enemy attack: identity and function of effectors produced by insects, nematodes, and pathogens
- Plant responses: phytohormone signalling, nutrient mobilization, cellular reorganization, and defence
- Ecological consequences of reprogramming plants and cascading effects in the ecosystem
- Contributions of microbial symbionts to plant-reprogrammer interactions

INTRODUCTION

The world's rapidly expanding populations have created a sense of urgency regarding global agricultural output, which needs to expand by at least 70% by the year 2050. Plants will provide a significant proportion of the world's food supply. This international conference focuses on a group of plant enemies that have a unique style of attack. Instead of simply removing plant tissue, survival, growth and reproduction are enhanced by manipulating the plant to create specialized nutritional resources. This attack strategy can have serious consequences for both natural and agroecosystems. Mechanisms of reprogramming host plants remain largely unknown but clearly involve secreted effectors that are applied during attack. Options for defense against reprogrammers include effector-triggered immunity. Historically the phylogenetically diverse plant enemies that reprogram plants have been studied by different groups. This interdisciplinary meeting will bring together the complementary strengths of key international laboratories to discuss advances in our understanding of the enemies that reprogram plants and their associated symbionts, the options that plants have for their defense, and the evolutionary potential of enemies to adapt to plant defense.

CONFIRMED INVITED SPEAKERS

Dr Pierre Abad

Institut Sophia Agrobiotech, Sophia Antipolis, France

Dr Heidi Appel

University of Missouri/Bond Life Sciences Center, Columbia, United States of America

Dr Jérôme Casas

CNRS—University François-Rabelais de Tours/
Institute of Research on Insect Biology, Tours, France

Dr George Fernandes

Universidade Federal de Minas Gerais/Institute of Biological Sciences, Belo Horizonte, Brazil

Dr Saskia Hogenhout

John Innes Centre/Department of Cell and Developmental Biology, Norwich, United Kingdom

Dr Elisabeth Huguet

CNRS—University François-Rabelais de Tours/
Institute of Research on Insect Biology, Tours, France

Dr Moshe Inbar

University of Haifa/Department of Evolutionary and Environmental Biology, Haifa, Israel

Dr Sophien Kamoun

The Sainsbury Laboratory, Norwich, United Kingdom

Dr Paul Nabby

Washington State University/Department of Entomology, Pullman, United States of America

LE STUDIUM® Loire Valley Institute for Advanced Studies

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<http://www.lestudium-ias.com>

Dr Carlos Lopez-Vaamonde

INRA/ Unité de recherche Zoologie Forestière, Orléans, France

Dr Issei Ohshima

Kyoto Prefectural University/Department of Life and Environmental Sciences, Kyoto, Japan

Dr Sylvain Pincebourde

CNRS—University François-Rabelais de Tours/
Institute of Research on Insect Biology, Tours, France

Dr Jack Schultz

University of Missouri/Bond Life Sciences Center, Columbia, United States of America

Dr Jean-Christophe Simon

Institute for Genetics, Environment and Plant Protection, Rennes, France

Dr Graham Stone

The University of Edinburgh/Department of Evolutionary Biology, Edinburgh, United Kingdom

Dr Jeff Stuart

University of Missouri/Bond Life Sciences Center, Columbia, United States of America

Dr Akiko Sugio

Institute for Genetics, Environment and Plant Protection, Rennes, France

Dr Noah Whiteman

University of Arizona/Department of Ecology and Evolutionary Biology, Tucson, United States of America

PRACTICAL INFORMATION

Deadline for pre-registration: 15/06/2015
Confirmation of selected applications: 01/07/2015
Deadline for registration/payment: 15/07/2015
Dates of the conference: 5-7 October 2015
Location: Hôtel de Ville, 37000 Tours – France
Lodging: Hotel lists communicated upon registration
Language: English

CONTACT AND PRE-REGISTRATION & REGISTRATION

Registrations are open. The number of seats is limited. Therefore, to insure availability, you are kindly asked to pre-register before **15/06/2015**. Please apply early, as this conference may become oversubscribed before this deadline. Each applicant is kindly requested to present a poster.

If the meeting is oversubscribed, it will be stated on the conference web page.

Applicants will see their application confirmed by **01/07/2015** and will be asked to process final registration and payment before **15/07/2015**.

After this deadline, applications will only be considered if more seats become available due to cancellations.

Please consult the website of LE STUDIUM® for updates, details and to download the pre-registration form: <http://www.lestudium-ias.com>

To register, click on the “**LE STUDIUM® CONFERENCES**” link. Next click on “**Registration form**”.

Please fill in the Word document and return the completed form via the website or by email to Justine Thévenot at registration@lestudium-ias.fr

Your participation will be validated upon receipt of your payment before **15/07/2015**. You can pay the registration fees (see table below) by PayPal services on LE STUDIUM website, via wire transfers using the reference **PG-SC42** (IBAN: FR76 1870 7004 3030 5212 3281 624 - BIC: CCBPFRPPVER) or by French bank checks sent to LE STUDIUM postal address in Orleans (1, rue Dupanloup – 45000 Orléans).

POSTERS

The number of seats is limited and participants are required to submit their application with an abstract (electronic format only –pdf files) of no more than 2000 characters (including spaces) by **15/06/2015**. The abstracts will be published in the conference booklet and in digital proceedings (USB flash-drive).

Thank you for sending the title and your abstract together with your affiliation and contact details to registration@lestudium-ias.fr before **15/06/2015**.

REGISTRATION FEES

Registration fees include: Conference attendance, lunches of **5 & 6/10/2015**, **lunch bags of 7/10/2015**, coffee breaks, cocktail and an USB key with the conference documents and a booklet of abstracts.

Registration Fees	Early rate before 15/07/2015
Public institutions	200€
Private institutions	300€
PhD Students	75€
Conference dinner (formal gala dinner) on 06/10/2015	65€

IMPORTANT DATES

15/06/2015	Pre-registration deadline
01/07/2015	Confirmation of registration
15/07/2015	Final registration and payment deadline
05/10/2015	Conference begins at midday
05/10/2015	Public lecture in French by Public lecture speaker
06/10/2015	Gala dinner
07/10/2015	Conference ends at midday

SYMPOSIUM ORGANIZATION

CONVENORS

- **Professor Marion HARRIS , LE STUDIUM® RESEARCH FELLOW**
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SCIENTIFIC COMMITTEE

- **Professor Marion HARRIS , LE STUDIUM® RESEARCH FELLOW**
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- **Professor Elisabeth Huguet**
IRBI (Institut de Recherche sur la Biologie de l'Insecte – UMR 7261 – CNRS/University François Rabelais of Tours) - Tours, France
- **Dr. Géraldine Dubreuil, Assistant Professor**
IRBI (Institut de Recherche sur la Biologie de l'Insecte – UMR 7261 – CNRS/University François Rabelais of Tours) - Tours, France
- **Dr. Noah K. Whiteman, Associate Professor**
University of Arizona/Department of Ecology and Evolutionary Biology, Tucson, United States of America
- **Professor Nicola Fazzalari, Scientific Director**
LE STUDIUM® Loire Valley Institute for Advanced Studies, region Centre-Val de Loire, France.

ORGANIZING COMMITTEE

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IRBI (Institut de Recherche sur la Biologie de l'Insecte – UMR 7261 – CNRS/University François Rabelais of Tours) - Tours, France
- **Hui Zhang, PhD Student**
IRBI (Institut de Recherche sur la Biologie de l'Insecte – UMR 7261 – CNRS/University François Rabelais of Tours) - Tours, France
- **Nicolas Faivre, Research Assistant**
IRBI (Institut de Recherche sur la Biologie de l'Insecte – UMR 7261 – CNRS/University François Rabelais of Tours) - Tours, France
- **Professor Nicola Fazzalari** (Scientific Director), LE STUDIUM® Loire Valley Institute for Advanced Studies, region Centre-Val de Loire, France
- **Sophie Gabillet** (General Secretary), LE STUDIUM® Loire Valley Institute for Advanced Studies, region Centre-Val de Loire, France
- **Ludovic Michel** (Incoming Researchers), LE STUDIUM® Loire Valley Institute for Advanced Studies / University of Tours, France
- **Justine Thévenot**, Bleu Nuit (Events agency), Orleans, France

ORGANIZING INSTITUTION

- **LE STUDIUM®**, LE STUDIUM® Loire Valley Institute for Advanced Studies, region Centre-Val de Loire, France