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Course“ Laboratory methods in insect pathology ” and Course“ Values and Pitfalls of Metagenomics for Pathogen Detection ”

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Insect Doctors Training

Course II: Laboratory Methods in insect pathology

Course IV: Values and Pitfalls of Metagenomics for Pathogen Detection

INRAe Campus, Jouy en Josas, France

5th-15th October 2021 

Monday 4th October - Tuesday 5th October

Insect Doctors Network Meeting

Tuesday 5th October

- 14:30-15:00 Course II+IV: Introduction – (Amphi building 440)
C Nielsen Leroux & Elisabeth Herniou
- 15:00-16:00 Course II: Importance of insect health for mass insect rearing
Tom Groot - Koppert NL
Adly Abd Allah – IEEA, AU
- 16:00-16:15 **Break**
- 16:15-16:30 Course II+IV: Introduction to Health& Safety for the practical
Agnès Rejasse INRAE, Micalis (Room 205-206 Bat 442)
- 16:30-18:30 Course IV: Practical - Infection set up for molecular diagnostics
Elisabeth Herniou & Jörg Wennmann

Wednesday 6th October

- 09:00-09:45 Course II: Pathology practical – Lab set-up (Room 205-206 Bat 442)
Christina Nielsen, Vincent Sanchis, Agnès Rejasse, Christophe Buisson (Room 205-206 Bat 442)
- 09:45-10:45 Course II: Insect Colony Hygiene
Jorgen Eilenberg, CPHU, DK (Audito A-B building 442 ground)
- 10:45-11:00 **Break**
- 11:00-12:30 Course II: Pathology 1
Louela Castrillo Cornell USA (on-line) (Audito. A-B building 442 ground)
- 12:30-14:00 **Lunch**
- 14:00-18:30 Course II: Pathology practical (Room 205-206 Bat 442)
Christina Nielsen, Vincent Sanchis, Agnès Rejasse, Christophe Buisson & Jörg Wennmann

Thursday 7th October

- 09:00-10:30 Course II: Innovative Microscopy and Imagery *Audito A-B building 442 ground)*
Christelle Langevin (INRAE, IERP)
- 10:30-11:00 **Break**
- 11:00-12:00 Course II: Pathology 2
Louela Castrillo Cornell USA (on-line) (Audito A-B building 442 ground)
- 12:00-13:30 **Lunch**
- 13:30-15:00 Course II: Pathology practical (Room 205-206 Bat 442)
Christina Nielsen, Agnès Rejasse, Vincent Sanchis, & Elisabeth Herniou
- 15:00-15:15 **Break**
- 15:15-16:00 Course IV: Value and Pitfalls of metagenomics *Audito A-B building 442 ground) Elisabeth Herniou*
- 16:00-16:45 Course IV: Introduction to NGS
Jörg Wennmann Audito A-B building 442 ground)
- 16:45-17:00 **Break** 17:00-18:30 Course IV: Practical – DNA preparation
Jörg Wennmann & Elisabeth Herniou

Friday 8th October

- 09:00-10:00 Course IV: Introduction to Nanopore Technology (Room 205-206 Bat 442) *Jörg Wennmann*
- 10:00-10:15 **Break**
- 10:15-12:30 Course IV: Practical – Preparation of Sequencing Library (Room 205-206 Bat 442) *Jörg Wennmann & Elisabeth Herniou*
- 12:30-14:00 **Lunch**
- 14:00-18:30 Course IV: Practical – MinION sequencing (Room 205-206 Bat 442)
Jörg Wennmann & Elisabeth Herniou

Saturday 9th October

Excursion *Visit of the Palace of Versailles*

Sunday 10th October

Free Time

Monday 11th October

- 09:00-10:30 Course II: Insect Anatomy (*Audito A-B building 442 ground)*
Claudio Lazzari, Univ. Tours, Fr
- 10:30-11:00 **Break**
- 11:00-12:30 Course II: Insect physiology (Room 205-206 Bat 442)
Claudio Lazzari
- 12:30-14:00 **Lunch**
- 14:00-17:00 Course II: Anatomy and Physiology practicals (Room 205-206 Bat 442)
Claudio Lazzari
- 17:00-18:00 Course II: Approaches to study larval gut anatomy
Christina Nielsen-Leroux (Audito A-B building 442 ground)

Tuesday 12th October

- 09:00-12:00 Course IV: Minion Data Analyses (*Audito A-B building 442 ground)*
Jörg Wennmann & Elisabeth Herniou
- 12:00-13:30 **Lunch**
- 13:30-18:00 Course II: BT Bioassays practicals (Room 205-206 Bat 442)
Vincent Sanchis & Christophe Buisson

Wednesday 13th October

- 09:00-10:45 Course II: Insect Immunity (*Audito A-B building 442 ground)*
Yannick Moret universit  de Bourgogne, France (on-line)
- 10:45-11:00 **Break**
- 11:00-12:30 Course IV: from sequence to classification (*Audito A-B building 442 ground) Elisabeth Herniou*
- 12:30-14:00 **Lunch**
- 14:00-15:00 Course IV: Endogenous Viral Elements
Clement Gilbert Audito A-B building 442 ground)
- 15:00-15:15 **Break**
- 15:15-17:30 Course IV: Minion Data Analyses
Jörg Wennmann & Elisabeth Herniou (Audito A-B building 442 ground)
- 17:30-18:00 Course II: BT Bioassays practicals
Vincent Sanchis & Christophe Buisson (Room 205-206 Bat 442)

Thursday 14th October

- 09:00-11:00 Course II: BT Bioassays practicals
Vincent Sanchis & Christophe Buisson (Room 205-206 Bat 442)
- 11:00-12:30 Course IV: Practical – Preparation of Sequencing Library
Jörg Wennmann & Elisabeth Herniou Audito A-B building 442 ground)
- 12:30-14:00 **Lunch**
- 14:00-17:00 Course II: Visit of a insect processing laboratory
AgroParisTech, Massy, Samir Mezdour, Christina Nielsen

Friday 15th October

- 09:00-10:00 Course II: BT Bioassays practicals (Room 205-206 Bat 442)
- 10:00-17:00 Course II: Bioassays analyses
Ben Raymond, Univ Excester, UK (Audito A-B building 442 ground)

18:30 Course Closure

Monday 4th October - Tuesday 5th October**Insect Doctors Network Meeting****Tuesday 5th October**

- 14:30-15:00 Course II+IV: Introduction –
C Nielsen Leroux & Elisabeth Herniou
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Tom Groot - Koppert
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- 16:00-16:15 **Break**
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Elisabeth Herniou & Jörg Wennmann

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- 09:00-09:45 Course II: Pathology practical – Lab set-up
Christina Nielsen, Vincent Sanchis, Agnès Réjasse
- 09:45-10:45 Course II: Insect Colony Hygiene
Jorgen Eilenberg UCPH, DK
- 10:45-11:00 **Break**
- 11:00-12:30 Course II: Pathology 1
Louela Castrillo (on-line)
- 12:30-14:00 **Lunch**
- 14:00-18:30 Course II: Pathology practical
Christina Nielsen, Vincent Sanchis, & Jörg Wennmann

Thursday 7th October

- 09:00-10:30 Course II: Innovative Microscopy and Imagery
Christelle Langevin
- 10:30-11:00 **Break**
- 11:00-12:00 Course II: Pathology 2
Louela Castrillo (on-line)
- 12:00-13:30 **Lunch**
- 13:30-15:00 Course II: Pathology practical
Christina Nielsen, Vincent Sanchis & Elisabeth Herniou
- 15:00-15:15 **Break**
- 15:15-16:00 Course IV: Value and Pitfalls of metagenomics
Elisabeth Herniou
- 16:00-16:45 Course IV: Introduction to NGS
Jörg Wennmann
- 17:30-18:30 Course IV: Practical – DNA preparation
Jörg Wennmann & Elisabeth Herniou

Friday 8th October

- 09:00-10:00 Course IV: Introduction to Nanopore Technology
Jörg Wennmann
- 10:00-10:15 **Break**
- 10:55-12:30 Course IV: Practical – Preparation of Sequencing Library
Jörg Wennmann & Elisabeth Herniou
- 12:30-14:00 **Lunch**
- 14:00-18:30 Course IV: Practical – MinION sequencing
Jörg Wennmann & Elisabeth Herniou

Saturday 9th October

Excursion *Visit of the Palace of Versailles*

Sunday 10th October**Free Time****Monday 11th October**

- 09:00-10:30 Course II: Insect Anatomy
Claudio Lazzari
- 10:30-11:00 **Break**
- 11:00-12:30 Course II: Insect physiology
Claudio Lazzari
- 12:30-14:00 **Lunch**
- 14:00-17:00 Course II: Anatomy and Physiology practicals
Claudio Lazzari
- 17:00-18:00 Course II: Midgut anatomy
Christina Nielsen

Tuesday 12th October

- 09:00-12:00 Course IV: Minion Data Analyses
Jörg Wennmann & Elisabeth Herniou
- 12:00-13:30 **Lunch**
- 13:30-18:00 Course II: BT Bioassays practicals
Vincent Sanchis & Christophe Buisson

Wednesday 13th October

- 09:00-10:45 Course II: Insect Immunity
Yannick Moret (on-line)
- 10:45-11:00 *Break*
- 11:00-12:30 Course IV: from sequence to classification
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- 12:30-14:00 *Lunch*
- 14:00-15:30 Course IV: Endogenous Viral Elements
Clement Gilbert
- 15:00-15:15 *Break*
- 15:15-17:30 Course IV: Minion Data Analyses
Jörg Wennmann & Elisabeth Heriou
- 17:30-18:00 Course II: BT Bioassays practicals
Vincent Sanchis & Christophe Buisson

Thursday 14th October

- 09:00-11:00 Course II: BT Bioassays practicals
Vincent Sanchis & Christophe Buisson
- 11:00-12:30 Course IV: Practical – Preparation of Sequencing Library
Jörg Wennmann & Elisabeth Heriou
- 12:30-14:00 *Lunch*
- 14:00-17:00 Course II: Visit of an Insect rearing Company
Christina Nielsen

Friday 15th October

- 09:00-10:00 Course II: BT Bioassays practicals
Vincent Sanchis & Christophe Buisson
- 10:00-17:00 Course II: Bioassays analyses
Ben Raymond

18:30 Course Closure