CONTINUING EDUCATION

MOLECULAR AND DIGITAL PATHOLOGY (MADPATH)



PROGRAM (Course exclusively in English and in presential due to its interactive nature)

DAY 1 - MOLECULAR PATHOLOGY TECHNIQUES

08:30 - 09:00 Welcome coffee and introduction 09:00 - 12:30 Immunohistochemistry (IHC)

Introduction to IHC

Anne-Laure BAUCHET (IHC team manager & Translational medicine Lead, Sanofi)

Biomarker validation process from non-clinical to clinical phase

Anne-Laure BAUCHET

Coffee break

Workshop: Validation of a new antibody 2 groups (2x30 min)

Anne-Laure BAUCHET, Stephane LEZMI (Investigative and toxicologic Pathologist, Excilone)

12:30 - 13:30 LUNCH

13:30 - 17:00 IHC troubleshootings - Anne-Laure BAUCHET, Stephane LEZMI

Tissue cross reactivity: guidelines, methods, scoring, reporting - Anne-Laure BAUCHET

Coffee break

Workshop: Use of IHC in translational drug development - Anne-Laure BAUCHET

17:00 - 17:30 Wrap up & Q&A

DAY 2 - MORNING - MOLECULAR PATHOLOGY TECHNIQUES

08:30 - 09:30	Other techniques Pot-pourri - <i>Stéphane LEZMI</i>
09:30 - 10:00	Coffee break
10:00 - 11:00	In situ hybridization (ISH): Methods and applications
	Dirk SCHAUDIEN (Pathologist, Fraunhofer ITEM)
11:00 - 12:00	Tissue mass spectrometry: general principles & examples of applications
	Bogdan Munteanu (Lab head Imaging Mass Spectrometry, Sanofi)
12:00 - 12:30	Wrap up & Q&A
12:30 - 13:30	LUNCH

DAY 2 - AFTERNOON - DIGITAL PATHOLOGY: USE OF WHOLE SLIDE IMAGING

13:30 - 15:30	What covers digital pathology?
	Foundations of WSI technology, hardware, software, IT infrastructure, ancillary data
	Erio BARALE-THOMAS (Scientific Associate Director, Pathology – Janssen R&D) & Lise
	BERTRAND (EU Digital Pathology Lead, Charles River)
15:30 - 16:00	Coffee break
16:00 - 17:00	Workshop: How can digital pathology help drug development?
	Use of Image Viewers (case-centric vs. study centric) in discovery and nonclinical toxicity studies
	Erio BARALE-THOMAS & Lise BERTRAND

DAY 3 - DIGITAL PATHOLOGY: IMAGE ANALYSIS AND USE OF ARTIFICIAL INTELLIGENCE

08:30 - 10:00	Image analysis: theory and practical concerns (first part)
	Common tools for customization & high throuput computational pathology – how to choose the
	right tool for the right analytical context?
	Elton REXHEPAJ (Director of Data Sciences, Bioimaging & Computational Pathology, Sanofi)
10:00 - 10:30	Coffee break
10:30 - 12:00	Image analysis: theory and practical concerns (second part)
	Hands-on session using the publically available tools on a few examples
	Elton REXHEPAJ
12:00 - 13:00	LUNCH
13:00 - 14:30	Workshop: set up of a image analysis strategy
	Practical session to learn how to develop an image analysis solution
	Flton REXHEPA I

Elton REXHEPAJ

Wrap up & Q&A

14:30 - 15:00 Coffee break

17:00 - 17:30

15:00 - 16:30 How can Al help drug development?

Tools of artificial intelligence and application to selected use cases

Erio BARALE-THOMAS & Lise BERTRAND

16:30 - 17:00 Wrap up + survey

MADPATH course design committee Florence Bernex, Elie Dagher, Béatrice Gauthier, Sébastien Laurent, Stéphane Lezmi Jérôme Abadie Contact registration:
Oniris vet school
Continuing Education Department
julie.marie@oniris-nantes.fr





Société Française de Pathologie Toxicologique



WHAT IS MADPATH?

MADPATH is a 3-day training course designed initially for residents in veterinary pathology as well as for pathologists and research scientists who want to discover, increase competency and improve knowledge in molecular pathology techniques and digital pathology. This course was prepared by the French Society of Toxicologic Pathology in order to meet the educational of the forthcoming generation of pathologists and scientists that are more and more involved in these techniques. The lessons are given by field experts presenting the state of the art in both complementary fields.



WHO?

 Pathologists and research scientists / Students

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EVENT DATES

4 -6 April 2023



LOCATION

Oniris - Nantes (France)
Veterinary campus

REGISTRATION FEE

Research scientists (Private) 800 € Net of tax Research scientists (Public) 650 € Net of tax

Students (valid proof at the time of registration)
200 € Net of tax

VALIDATION: Certificate of continuing education completion