

IMMREVIEW

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HISTOPATHOLOGY WORLD EXPERT AT IMMR

Bringing a fully integrated
and comprehensive pathology service
for the medtech industry

IMMR

Accelerating your
innovative research

Histopathology is the final piece of the puzzle in the strenuous path that medtech start-ups and larger players follow to prove safety and efficacy of their device.

Being one of the leaders in preclinical validation for the MedTech industry, IMMR is indeed a one-stop shop, capable of serving the project every step of the way, from the early phases of surgical proof of concept, all the way to final reports for regulatory purposes. Histopathology is key in our final assessment of devices, not only as it can show how well the device is integrated but also how safe it is (what the body does to the device and what the device does to the body).

Histopathology



LAURENCE FIETTE

Dr Laurence Fiette joined the lab in 2016 ago to strengthen this approach and bring 25+ years of experience in this particular field. She has seen all sorts of devices, cardiovascular naturally but also in all the other fields of biomedical research.

We work hand in hand and she is therefore present during the macroscopic assessment after explantation as well as during the microscopic study and final discussion with the sponsor.

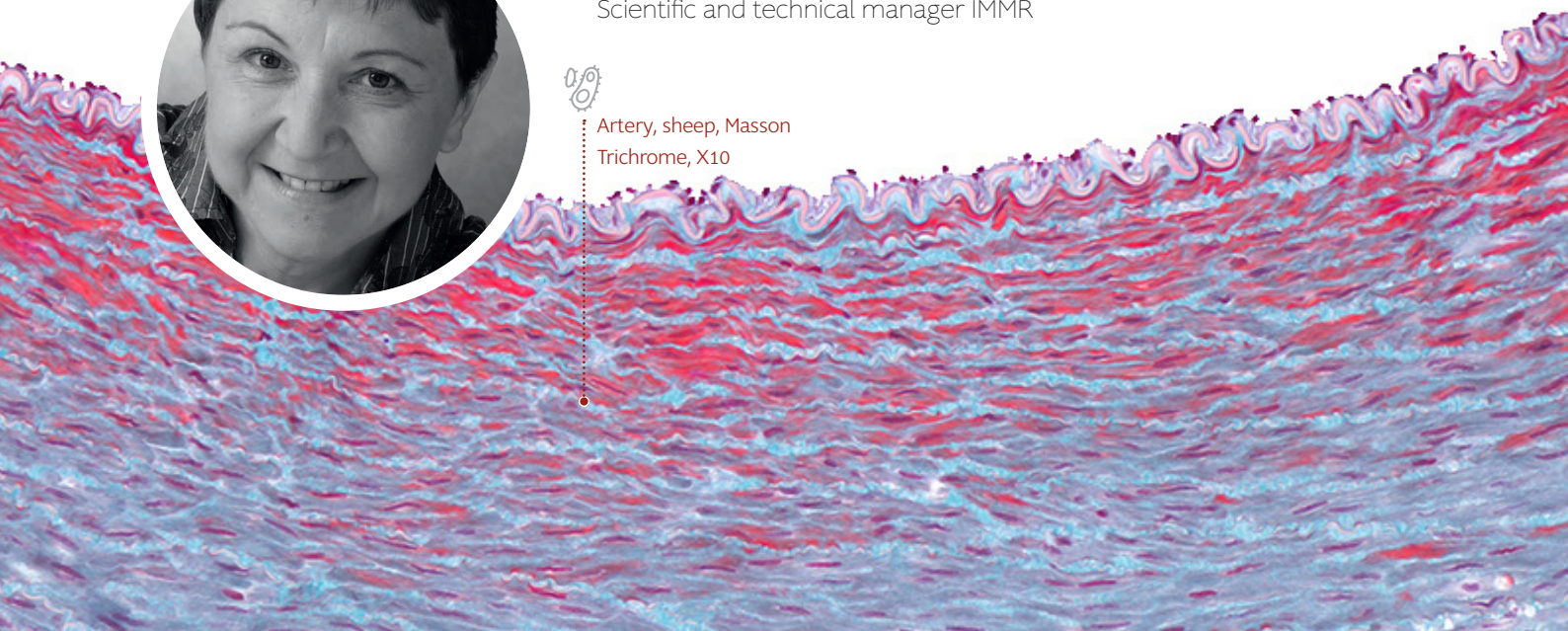
Her presence as head of the pathology department supports our effort to address the full spectrum of preclinical assessment and brings one more world-class expert to the panel!



Nicolas Borenstein, DVM, PhD
Scientific and technical manager IMMR



Artery, sheep, Masson
Trichrome, X10



In order to bring together skilled scientific experts to provide the best quality service, IMMR recently hired Dr Laurence Fiette as Head of Pathology.

Laurence, could you tell us a little bit more about you?

Well, I'm a French veterinary pathologist, who graduated and was trained in veterinary and toxicologic pathology in France. After my specialization in veterinary pathology, I did my PhD in Paris. I did then a long career in fundamental research working on animal models of human diseases at the Institut Pasteur, Paris, France. I also created a platform of Pathology for research at the Faculty of Medicine in Geneva, Switzerland. I have also many activities in teaching and organization of international scientific meetings in the field of animal models and pathology. In 2007, I began to work as an independent consultant in preclinical and research pathology.

Why did you join IMMR as Head of Pathology?

I experienced working with IMMR for many years as a consultant and I evaluated many studies from the past or current sponsors of this CRO. I greatly appreciated the professionalism of this team, the way they manage customer-oriented and high-quality services. People at IMMR are also really open, well-meaning, pleasant persons. I think I share the same values, the same vision and the same passion for excellence and teamwork. Moreover, this place is one of the very few companies where so many types of projects of R&D or preclinical testing are performed. This is really exciting scientifically speaking.

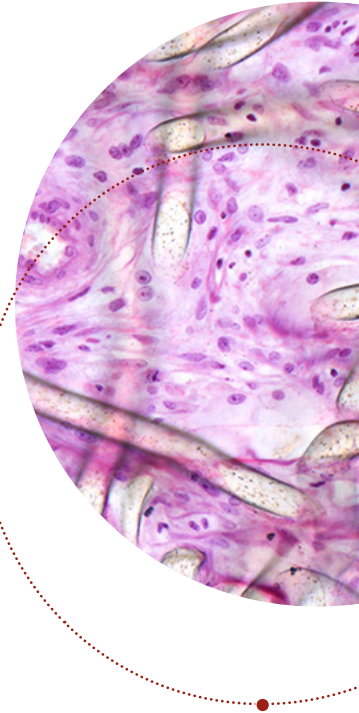
IMMR already provided histopathological services in the past, what will change?

We will have now full in-house, more structured, more coherent and better coordinated pathology service. I will be full-time present at IMMR and will be member of the team. I will perform

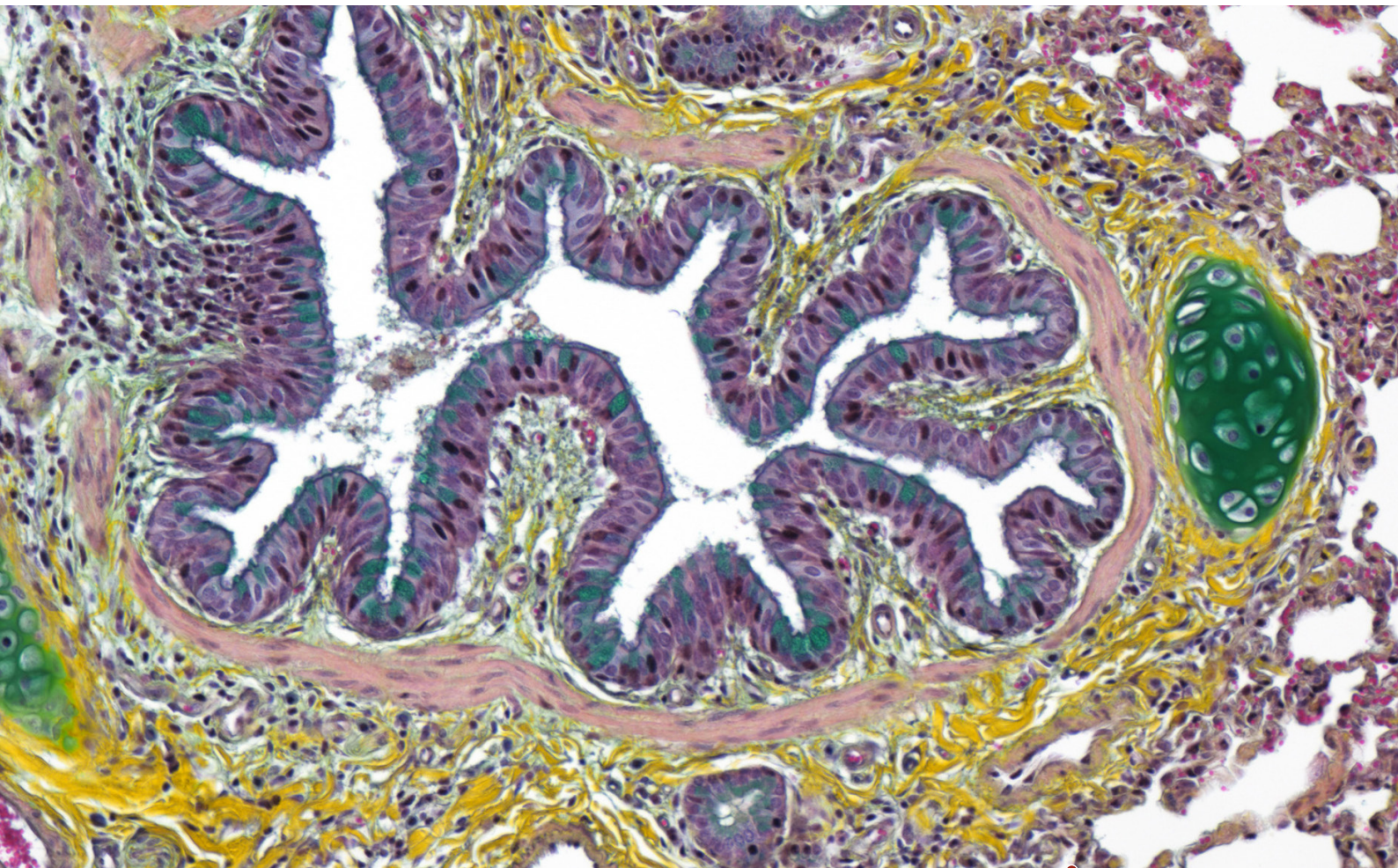
the macroscopic assessment at the time of explantation together with the surgeons. We will then establish a very valuable connection between imaging, clinical and macroscopic data. I will also be fully available to discuss the protocols and the results of pathological evaluation with our sponsors. I will finally have the opportunity to develop comparative anatomy and comparative in the species we use in cardiovascular research. These studies would be very useful to further validate these species as models for human medicine.

What pathology services are offered now at IMMR?

In addition to routine histology of paraffin embedded tissues samples, standard or special staining, and immunohistochemistry, we carry out resin sectioning for medical devices and hard tissues using the grinding-sectioning method. This highly specialized technique allows to maintain the interface between the device and the implanted tissue, and to evaluate accurately this intimate relationship. My team has many years of hands-on experience with this technique. We are also always improving and developing the histological techniques. We permanently adapt our technical protocol to specific requirements and end-points of the studies we take on. >>>



"WE HAVE NOW FULL IN-HOUSE MORE STRUCTURED, MORE COHERENT AND BETTER COORDINATED PATHOLOGY SERVICE."



Lung, sheep, Movat
Pentachrome, X10

We offer macroscopic and microscopic evaluation and reporting of preclinical animal studies in all the fields of medical devices and biomaterials (cardiovascular medicine, orthopedics, dentistry, etc.).

What is the added value of a pathology service for IMMR?

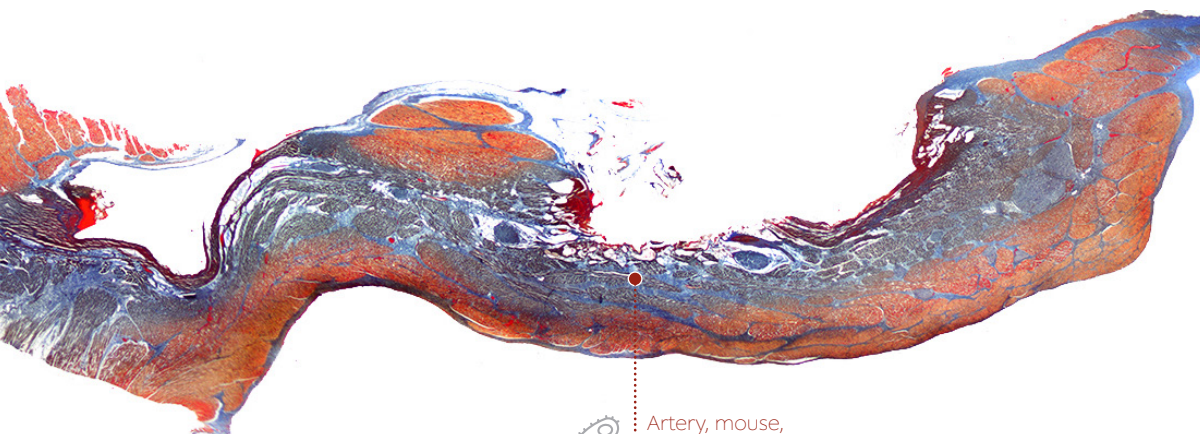
IMMR is a world leader center of preclinical surgery in large animal species with highly specialized skills, significant experience and up to date equipment. We are very pleased to now offer an integrated,

comprehensive, state of the art and GLP compliant portfolio that includes samples processing, evaluation and reporting. Not many CRO have an integrated department of pathology. This integration marked a further stage in enhancing our scientific skills and experience to provide our sponsors all the services and experts they need at the same place in a timely and cost-effective manner.

Follow this link to view some remarkable videos from IMMR



<https://www.immr-recherche.com/minute-with-the-expert/>



Artery, mouse,
Azan Mallory, X1

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innovative research

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newsletters on our services
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