




# Pathology, Histology & Immunohistochemistry

Sequani is a UK based CRO with its heritage dating back over 40 years. We are positioned at the forefront of pharmaceutical and biotechnology product developments and chemical safety testing. Bursting with experience, excellence and expertise, we take pride in offering superior value for money, greater flexibility and speed of response - turning data into decisions and defining the way forward. We thrive upon joining our clients upon their mission to achieve high quality data derived by undertaking each project to the highest regulatory standard. Our flexibility, adaptability, strategic programme management and scientific rigour guarantees our customer satisfaction.



Here at Sequani, we are versatile and flexible with meeting your requirements; offering a full range of services from necropsy through histological processing to microscopic evaluation and pathology interpretation.

We are able to perform histology of tissues from in house studies, as well as processing tissues from studies performed elsewhere. We offer standard staining techniques using Haematoxylin and Eosin to allow for sound identification and interpretation of samples. Additionally, we offer the use of special stains such as Masson's Trichrome and Periodic Acid- Schiff amongst a vast array of others for specialist differentiation of tissues or more specific intricate components within tissues. Additional histochemical and comprehensive immunohistochemical services are also available. We love a challenge and enjoy working closely with our clients to develop new techniques to complement your study requirements.

Our highly experienced team of 3 pathologists includes 2 of the most experienced toxicological pathologists (BDS(Edin) DipRCPath (Tox) FRCPath, BSc(Hons) PhD DipRCPath (Tox) FRCPath) working in the UK, with combined experience amounting to over 70 years.

## Sequani pathologists have specialist expertise in:

- General toxicity • Endocrine pathology • Ocular pathology • Carcinogenicity studies • Transgenic mice • Respiratory pathology
- Cardiovascular pathology • Dermal pathology • Juvenile organ development and toxicity • Juvenile brain

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sequani  
NON CLINICAL

great people, great work, real results

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Our pathologists are constantly working on self-study projects to enhance their existing knowledge and to increase expertise particularly in the juvenile sector. Often collaborating with Universities, our Pathologists work alongside research projects at the forefront of some exciting scientific discoveries.

The Pathology team are actively involved with all studies, from inception, even at the enquiry stage. From tissue selection through to final report, our pathologists are often in direct communication with our clients. Due to the nature of our site, pathologists work in close proximity to both the necropsy, foetal pathology and the histology team, and are always on standby available for consultations.

## SERVICES OFFERED:

Specialised Procedures	
Frozen Sectioning	
Serial / Step Sectioning	(Butterfly ovary technique)
Specialised Embedding	
Photomicrography	
Immunohistochemistry	
Morphometric Analysis	
Cell Proliferation Assays	
Special Stains	Both histochemical and immunohistochemical.
Archive Ready Packaging of Residual Wet Tissues	
Microscopic Evaluation	
Foetal Evaluation	Single and double skeletal staining techniques are fully validated and routinely performed using our suite of Shandon Pathcentre Teratology Processors, as well as Bouins examination.
Sperm Analysis	(Extensive analysis of sperm morphology, motility and concentration in rats. We use the Hamilton Thorne TOX IVOS software to produce reports detailing percentage motility and a range of velocity parameters from live epididymal samples, as well as concentration data from both epididymal samples and homogenisation resistant spermatids from the testis. In addition, we perform a differential morphological analysis detailing any gross abnormalities.
Ovarian Follicle Counts	We can perform counts for naked oocytes and small and medium follicles in serial ovarian sections taken from the rat. This can be achieved using standard Haematoxylin and Eosin staining or using immunohistochemical staining for PCNA.
Immunocytochemistry	Method feasibility and validation and slide preparation and evaluation.
Consultancy	Necropsy, Histology, Immunohistochemistry and Peer Review.

Sequani can offer bespoke packages at competitive prices to suit your needs.

For further information, please contact: [business.development@sequani.com](mailto:business.development@sequani.com)

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