

## PATHOLOGY SERVICES

AVANZA has selected Vet Path Services, Inc. (VPS), a leading provider of contract pathology services, as our research collaborator supporting our toxicology studies. VPS is a privately-owned, independent histopathology organization offering GLP-compliant toxicologic pathology and pathology-related services to the pharmaceutical, chemical, and CRO industries. VPS is the second largest independent contract histopathology corporation in North America, and specializes in providing the following services:

- Anatomic Pathology
- Peer Review
- Clinical Pathology Evaluation
- Histology
- Necropsy supervision by board-certified pathologists
- Special Techniques
- Archiving

Their secure and purpose-built facilities include 13,300 square feet of office, laboratory, and archive space.

### *Pathology*

VPS' pathology staff includes 8 board-certified (ACVP) pathologists, including a board-certified clinical pathologist. Their study experience includes:

- Acute and Subchronic
- Carcinogenicity
- Target Animal Safety
- Transgenic Mouse
- Medical Device

### Specialty organ systems/tissues include:

- Bone / Joint and Dental
- Brain
- Cardiovascular
- Gastrointestinal
- Eye / Ear
- Skin

The VPS' pathology staff enters their findings directly into the AVANZA Provantis™ database via remote access. This results in all electronic data being collected and archived by AVANZA and allows for seamless data review and reporting. VPS produces an integrated anatomical and clinical pathology report for incorporation into the main study report.

### *Histology – Paraffin and Plastics*

VPS has a complete GLP-compliant histology laboratory that is capable of processing all types of animal tissues and medical devices.

The Laboratory Director has over 23 years of experience in managing a GLP histology laboratory, and the laboratory staff includes 7 senior histologists and 12 histology technicians.

VPS offers GLP-compliant plastics histology using the Exakt System, and is equipped with 3 of these systems for preparation of ground tissue sections. By infiltrating and embedding the specimens in a special plastic resin (Technovit 7200), VPS is able to section and grind tissues that contain:

- |                                    |                                 |
|------------------------------------|---------------------------------|
| ■ Metals (Titanium, Nitinol, etc.) | ■ Undecalcified bone            |
| ■ Ceramics                         | ■ Bone cements and void fillers |

### *Special Techniques*

Through strategic relationships, VPS offers a variety of specialty services, including:

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|-------------------------------------|-------------------------------------|
| ■ Histomorphometry (image analysis) | ■ Cryotomy                          |
| ■ Immunohistochemistry              | ■ Slide Scanning                    |
| ■ <i>In Situ</i> Hybridization      | ■ Electron Microscopy (TEM and SEM) |
| ■ TUNEL Staining                    |                                     |

### *Archiving*

VPS Archives, LLC, a sister company of VPS, offers GLP compliant long-term archival services. The 4,000 square foot archive facility is specifically design and monitored for secure long-term storage and is managed by a staff with over 20 years of experience in GLP-compliant archival storage.

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Contact us for more information on how AVANZA can assist with your pathology services in a cost-effective and quality manner.