



Gabriela Seiler



### Advanced Ultrasound Imaging Methods

#### Research emphasis:

Dr. Seiler's research is focused on the investigation of advanced ultrasound methods and their establishment in a clinical and research setting. These advanced ultrasound methods include contrast-enhanced ultrasound, elastography, virtual navigation sonography, ultrasound mediated drug delivery and targeted ultrasound imaging. These methods have been applied to a variety of species including dogs, cats, horses, mice and rabbits.

#### Application:

- Cancer Imaging
- Drug delivery
- Perfusion imaging
- Tendon injury and healing
- Guided therapy

#### Collaboration potential:

- Large animal models for cancer research
- Cancer treatment
- Canine or equine sports medicine

#### Selected publications:

Seiler GS, Campbell N, Britton N, Tsuruta J, Dayton P, Jennings S, Redding WR, Lustgarten M. Feasibility and safety of contrast-enhanced ultrasound in six horses – a pilot study. *Vet Radiol Ultrasound* 2016 DOI: 10.1111/vru.12333

Lustgarten M, Redding WR, Schnabel L, Prange T, Seiler GS. Navigational ultrasound imaging: A novel imaging tool for aiding interventional therapies of equine musculoskeletal injuries. *Equine Vet J*, 2016, 48(2): 195-200.

Lustgarten M, Labens R, Redding WR, Seiler GS. Elastographic evaluation of the equine distal forelimb. *Vet Radiol Ultrasound* 2014 Jan; 55 (1): 92-101.

Seiler GS, Salmon JH, Mantuo R, Feingold S, Dayton PA, Gilger BC. Effect and distribution of contrast medium after injection into the anterior suprachoroidal space in ex vivo eyes. *Invest Ophthalmol Vis Sci* 2011, 52(8): 5730-5736.

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