



Barbara Bockstahler

Department for Small Animals and Horses, Small Animal Surgery, Section for Physical Therapy and Rehabilitation, University of Veterinary Medicine Vienna, Veterinärplatz 1, A – 1210 Vienna, Austria

List of academic milestones and relevant positions

2021	Past President European College of Veterinary Sports Medicine and Rehabilitation
2020	Deputy Clinic Director (interim): Clinical Unit for Small Animal Surgery
2018	President of the European College of Veterinary Sports Medicine and Rehabilitation
2017	Diplomate European College of Veterinary Sports Medicine and Rehabilitation
2016	Diplomate American College of Veterinary Sports Medicine and Rehabilitation
2009	Habilitation
2009	Head of the Scientific Board Veterinary European Physical Therapy and Rehabilitation Association (VEPRA)
2007	Certified Canine Rehabilitation Practitioner of the University of Tennessee, USA
2004	Specialized Veterinarian in Physiotherapy and Rehabilitation, Member of the Examination Board
2003	Clinic for Surgery and Ophthalmology University of Veterinary Medicine Vienna, Head of the section for physiotherapy Movement Science Group Vienna, Head of the Project Group Movement Science in Dogs
2000 -2003	Clinic for Surgery and Ophthalmology (part time 25%) University of Veterinary Medicine Vienna, Head of the ambulance for physiotherapy
1999 -2000	Clinic for Small Animals and Horses (part time 25%) University of Veterinary Medicine Vienna, Constitution of the section for physiotherapy
1995 -2002	Partner in a private small animal practice
1994 -1995	Doctoral Thesis, University of Veterinary Medicine Vienna, "Numerical and structural chromosome anomalies in solid tumours of cats"
1987 -1994	Academic Studies at the University of Veterinary Medicine Vienna

Main area of research

Barbara Bockstahlers primary field of research is the biomechanics of dogs and cats. In this field she has published numerous studies on kinetics, kinematics and electromyography. The main interest is in compensatory changes caused by orthopedic diseases and special strains on sports and working dogs. With her work she was able to provide important basic information on the ground reaction forces of healthy and orthopedically ill dogs. Her studies on kinematics and electromyography served to investigate the effect of various therapeutic exercises and the influence of lameness. The

examination of guide dog harnesses for the blind and hunting dogs showed special strains to which these animals are exposed.

Previous research achievements

- University of Veterinary Medicine Vienna: https://vetdoc.vu-wien.ac.at/vetdoc/suche.person_uebersicht?sprache_in=en&menue_id_in=101&id_in=2610
- ORCID: <https://orcid.org/0000-0002-1499-5753>
- ResearcherID: <https://publons.com/researcher/2942699/barbara-bockstahler/>
- Google Scholar: <https://scholar.google.com/citations?user=2282077787476&user=lrMEk-MAAAAJ>

Key academic publications ([link to full list](#))

1. [Koch, L; Bockstahler, B; Tichy, A; Peham, C; Schnabl-Feichter, E](#) (2021): Comparison of extracapsular stabilization techniques using an ultrasonically implanted absorbable bone anchor (Weldix) after cranial cruciate ligament rupture in cats—an in vitro study. *Animals (Basel)*. 2021; 11(6):1695
2. [Schnabl-Feichter, E; Schnabl, S; Tichy, A; Gumpenberger, M; Bockstahler, B](#) (2021): Measurement of ground reaction forces in cats 1 year after femoral head and neck ostectomy. *J Feline Med Surg*. 2021 23 (4) 302-309.
3. [Lechner, B; Handschuh, S; Bockstahler, B; Tichy, A; Peham, C; Schnabl-Feichter, E](#) (2020): Comparison of a novel extracapsular suture technique with a standard fabellotibial suture technique for cranial cruciate ligament repair using a custom-made limb-press model in cats. *J Feline Med Surg*. 2020 22 (10) 1016-1024.
4. [Moreira, JPL; Tichy, A; Bockstahler, B](#) (2020): Comparison of the Vertical Force Distribution in the Paws of Dogs with Coxarthrosis and Sound Dogs Walking over a Pressure Plate. *Animals (Basel)*. 2020; 10(6):986. DOI: [10.3390/ani10060986](https://doi.org/10.3390/ani10060986)
5. [Reicher, B; Tichy, A; Bockstahler, B](#) (2020): Center of Pressure in the Paws of Clinically Sound Dogs in Comparison with Orthopedically Diseased Dogs. *Animals (Basel)*. 2020; 10(8):1366. DOI: [10.3390/ani10081366](https://doi.org/10.3390/ani10081366)
6. [Braun, L; Tichy, A; Peham, C; Bockstahler, B](#) (2019): Comparison of vertical force redistribution in the pads of dogs with elbow osteoarthritis and healthy dogs. *Vet J*. 2019 Aug;250:79-85. DOI: [10.1016/j.tvjl.2019.06.004](https://doi.org/10.1016/j.tvjl.2019.06.004) . Epub 2019 Jul 8.
7. [Schnabl-Feichter, E; Tichy, A; Gumpenberger, M; Bockstahler, B](#) (2018): Comparison of ground reaction force measurements in a population of Domestic Shorthair and Maine Coon cats. *PLoS One*. 2018; 13(12):e0208085, DOI: [10.1371/journal.pone.0208085](https://doi.org/10.1371/journal.pone.0208085)
8. [Schnabl-Feichter, E; Tichy, A; Bockstahler, B](#) (2017): Coefficients of variation of ground reaction force measurement in cats. *PLoS One*. 2017; 12(3):e0171946, DOI: [10.1371/journal.pone.0171946](https://doi.org/10.1371/journal.pone.0171946)
9. [Schwarz, N; Tichy, A; Peham, C; Bockstahler, B](#) (2017): Vertical force distribution in the paws of sound Labrador retrievers during walking. *Vet J*. 2017; 221:16-22, DOI: [10.1371/journal.pone.0186371](https://doi.org/10.1371/journal.pone.0186371)
10. [Bockstahler, B; Tichy, A; Aigner, P](#) (2016): Compensatory load redistribution in Labrador retrievers when carrying different weights - a non-randomized prospective trial. *BMC Vet Res*. 2016; 12(1):92, DOI: [10.1186/s12917-016-0715-7](https://doi.org/10.1186/s12917-016-0715-7)
11. [Breitfuss, K; Franz, M; Peham, C; Bockstahler, B](#) (2015): Surface Electromyography of the Vastus Lateralis, Biceps Femoris, and Gluteus Medius Muscle in Sound Dogs During Walking

and Specific Physiotherapeutic Exercises. *Vet Surg.* 2015; 44(5):588-595, DOI: [10.1016/j.cvsm.2014.09.010](https://doi.org/10.1016/j.cvsm.2014.09.010)

12. [Strasser, T; Peham, C; Bockstahler, BA](#) (2014): A comparison of ground reaction forces during level and cross-slope walking in Labrador Retrievers. *BMC Vet Res.* 2014; 10:241, DOI: [10.1186/s12917-014-0241-4](https://doi.org/10.1186/s12917-014-0241-4)
13. [Bockstahler, B; Kräutler, C; Holler, P; Kotschwar, A; Vobornik, A; Peham, C](#) (2012): Pelvic limb kinematics and surface electromyography of the vastus lateralis, biceps femoris, and gluteus medius muscle in dogs with hip osteoarthritis. *Vet Surg.* 2012; 41(1):54-62, DOI: [10.2460/ajvr.73.9.1371](https://doi.org/10.2460/ajvr.73.9.1371)

Additional research achievements

Research projects

- [Aging and cognitive dysfunction syndrome in dogs influence postural control](#), Project type: Funded research, Project leader: [Bockstahler Barbara](#), Vetmed Research Units: [University Clinic for Small Animals, Clinical Unit of Internal Medicine Small Animals University Clinic for Small Animals, Clinical Unit of Small Animal Surgery University Equine Clinic](#), *Funded by: FWF - Fonds zur Förderung der wissenschaftlichen Forschung, Wien, Austria*, Duration: 01.03.2022-28.02.2026
- [Capacitive and resistive electrical transfer therapy in dogs with osteoarthritis of the hip joints - a pilot study](#), Project type: Industry project from §27 funds, Project leader: [Bockstahler Barbara](#), Vetmed Research Units: [University Clinic for Small Animals, Clinical Unit of Small Animal Surgery](#), *Funded by: INDIBA® Animal Health, Sant Quirze del Vallès (Barcelona), Spain*, Duration: 01.11.2021-31.12.2022
- [Guide Dog Harness Helga](#), Project type: Funded research, Project leader: [Bockstahler Barbara](#), Vetmed Research Units: [University Equine Clinic, Clinical Unit of Equine Surgery, University Clinic for Small Animals, Clinical Unit of Small Animal Surgery](#), *Funded by: Verein „Freunde der Assistenzhunde Europas“, Kittsess, Austria*, Duration: 01.02.2021-31.01.2023
- [Evaluation of pressure distribution under harnesses of guide dogs](#), Project type: Internal project from global budget, Project leader: [Bockstahler Barbara](#), Vetmed Research Units: *Funded by: Wiener Wissenschafts-, Forschungs- und Technologiefonds (WWTF), Schlickgasse 3/12, 1090 Wien, Austria*, Duration: 01.03.2007-31.03.2009
- [Extracorporale radiale Stoßwellentherapie \(ESWT\) zur Behandlung der Coxarthrose des Hundes](#), Project type: Internal project from global budget, Project leader: [Bockstahler Barbara](#), Vetmed Research Units: [University Clinic for Small Animals, Clinical Unit of Small Animal Surgery](#), Duration: 01.04.2003-30.11.2004

Editor(s) of Series

- [Bockstahler, B; Wittek, K; Levine, D; Maierl, J; Millis, D \[Eds.\]](#) (2019): Essential Facts of Physical Medicine, Rehabilitation and Sports Medicine in Companion Animals. 1.st ed. Babenhausen: VBS GmbH; pp. 720. ISBN: 978-3-938274-30-9

Key note presentations

- Bockstahler, B, 2017: Sports conditions of field trial and hunting dogs. 10th International Symposium on Veterinary Rehabilitation and Physical Therapy; JUL 29 - AUG 5, 2017; Knoxville, United States (USA). 2017.

- Bockstahler, B, 2017: Clinical application of biomechanics in sports medicine and rehabilitation. American College of Veterinary Surgeons; OCT 10-15, 2017; Indianapolis, United States (USA). 2017.
- Bockstahler, B, 2017: Biomechanical considerations in the design of rehabilitation programs: 10th International Symposium on Veterinary Rehabilitation and Physical Therapy; JUL 29 - AUG 5, 2017; Knoxville, United States (USA). 2017.
- [Bockstahler, B](#) (2016): Muscles and their Role in Canine Cruciate Ligament Disease – any Implications for Rehabilitation? IAVRPT Symposium ; AUG 8-12, 2016; Upsalla, SWEDEN.