

# CURRICULUM VITAE

## Dr. med. vet. Muriel Sacks

GradDipEd (Tert. Ed.), MVetClinStud, MVetIntMed (Research)

Diplomate of The American College of Veterinary Internal Medicine – Large Animal (DACVIM)

### PERSONALIEN

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Adresse:	Buchsgasse 31, Vienna, Austria
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Nationalität:	Schweizerin (geboren) / Australierin (erworben)

## QUALIFIKATIONEN

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2023	Diplomate of The American College of Veterinary Internal Medicine – Large Animal (DACVIM)  Research Master with Training (MVetIntMed - Research), Murdoch University, Perth WA
2020	Master of Veterinary Clinical Studies (MVetClinStud), Murdoch University, Perth WA
2018	Graduate Diploma in tertiary and workplace education (GradDipEd; Tert. Ed.); Diplom in Erwachsenenbildung am Arbeitsplatz, Murdoch University, Perth WA
11. 2017	Australian National Veterinary Exam Part III (Klinische Prüfung); Anerkennung durch das Australian Veterinary Board Council (AVBC) und Approbation als Tierärztin in Australien
09. 2016	Australian National Veterinary Exam Parts I (Englisch test) & II (Theorieprüfung)
06. 2016	Dissertation in Tiermedizin (Dr. med. vet.), ausgestellt für die Doktorarbeit 'Sedation, cardiovascular function and recovery of medetomidine versus dexmedetomidine isoflurane balanced anaesthesia in horses', betreut durch Prof. Dr. med. vet. Regula Bettschart-Wolfensberger, Zürich, Schweiz
01. 2014	Studienabschluss an der Vetsuisse Fakultät Zürich, Zürich, Schweiz – nationale Approbation zur Ausübung des tierärztlichen Berufes (med. vet.)
10. 2013	Masterarbeit „Validation of <i>Quick Vet Coag Analyzer</i> “, betreut durch Prof. Dr. med. vet. Colin Schwarzwald, PhD, Dipl. ACVIM-LA / ECEIM
2008–2014	Bachelor und Master of Veterinary Science (BVetMed, MVetMed), Schwerpunkt Pferd, Vetsuisse Fakultät Zürich, Zürich, Schweiz

## PROFESSIONELLE ERFAHRUNG

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02. 2023                      Freiwilliger Hilfeinsatz am Pferdespital der non-for-profit charity *Egypt Equine Aid*, Cairo, Ägypten
- 2019 - 2022                      Residency in Equine Internal Medicine, in Vorbereitung auf die internationale Spezialisierung für Grosstiermedizin mit der Dachorganisation American College of Veterinary Internal Medicine (ACVIM).
10. 2019                      Externship in Clovelly Neonatal Intensive Care Unit of Scone Equine Hospital, Hunter Valley NSW
- 2017–2018                      Internship in Equine Medicine and Surgery am Tierspital der Murdoch University, Perth WA
12. 2017                      Freiwilliger Hilfeinsatz am Pferdespital der non-for-profit charity *Egypt Equine Aid*, Cairo, Ägypten. Veterinary advisor und Kommissionsmitglied seit März 2018
08. 2017                      Freiwilliger Hilfeinsatz an der Kleintierklinik der *Baan Unrak Thai Animal Sanctuary*, Sangkhla Buri, Thailand
03. 2017–10. 2017                      Tutorin in Veterinäranatomie, Murdoch University, Perth WA  
  
Tutorin in Anästhesie, Murdoch University, Perth WA
12. 2016–10. 2017                      Klinische Assistenz in der Kleintierklinik des Katzenheims Cat Haven, Cat Welfare Society, Shenton Park WA
09. 2016–12. 2017                      Wissenschaftliche Assistenz bei der Anästhesie von Grosstieren, Large Animal Facilities (LAF), University of Western Australia, Perth WA
- 07.2016                      Feldstudie in Süd Afrika: Distribution of ventilation in southern white rhinoceroses, volumetric capnography and electrical impedance tomography measurements
04. 2016                      Experimentelle Studie in Pferdeanästhesie in Belgien: Cardiorespiratory effects of Trendelenburg and Reverse Trendelenburg position in horses during general anaesthesia, assessed by electrical impedance tomography
03. 2014–02. 2016                      Doktorandin (40%) und klinische Assistenzärztin (60%) an der Abteilung für Grosstieranästhesie, Vetsuisse Fakultät Zürich, Zürich, Schweiz

## ZUSÄTZLICHE FORTBILDUNG

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- 2022 ACVIM Forum, Texas, USA (Online-Teilnahme wegen COVID19)
- 2021 ECEIM resident Summer School, Wien, Österreich (Online-Teilnahme wegen COVID19)
- 2020 *Research Integrity Course*, Oxford University Press
- 2019 *Safety in Research and Teaching Induction*, Murdoch University, Perth WA
- 2017 *Animal Care and Ethics Registration Workshop*, Murdoch University, Perth WA
- ANZCVS Science Week Kongress in Queensland, Australia
- 2016 *Ethics and Regulations Online Modul und Permission to Use Animals (PUA) Kurs*, Perth WA
- Spring Meeting Association of Veterinary Anaesthetists AVA, France
- 2015 Weltkongress Veterinary Anaesthesiology WCVA, Japan
- 2014 Internationaler Kongress der German Equine Veterinary Association GEVA, Germany
- Introductory Course in Laboratory Animal Science, Schweiz  
(*Einführungskurs in Labortierkunde*, EGA Modul)
- Weiterbildungskurse angeboten durch die Vetsuisse Fakultät Zürich:  
„Prophylactic and regenerative equine medicine“, „Cushing and laminitis in the horse“, „CT and MRT in horses“, „Shoeing – correction possibilities of the hoof“

## WISSENSCHAFTLICHE PUBLIKATIONEN

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### Peer-reviewed Research Papers

- 2023 S Raidal, CSM Catanchin, **M Sacks**, A Carstens, C Quinn, M Mosing (2023): Effects of 2 modes of positive pressure ventilation on respiratory mechanics and gas exchange in foals. Accepted for publication in *J. Vet. Int. Med.* in December 2022
- M Sacks**, S Raidal, G Hosgood, CSM Catanchin, M Mosing (2023): How sedation, body position change and continuous positive airway pressure alter distribution of ventilation in foals. Accepted for publication in *Front. Vet. Sci.* December 2022
- 2022 OA Brabant, PB Byrne, **M Sacks**, F Moreno Martinez, AL Rasis, JB Araos, AD Waldmann, et al. (2022): Thoracic Electrical Impedance Tomography - The 2022 Veterinary Consensus Statement. *Front. Vet. Sci.* 2022;9:946911
- 2021 **M Sacks**, DP Byrne, EJ McConnell (2021): Bromide intoxication in a 3-year-old Thoroughbred filly. *Equine vet. Educ.* 34 (9), e359-e362
- M Sacks**, DP Byrne, N Herteman, C Secombe, A Adler, G Hosgood, AL Rasis, M Mosing (2021): Electrical impedance tomography to measure lung ventilation distribution in healthy horses and horses with left-sided cardiac volume overload. *J. Vet. Int. Med.* 35 (5), 2511–2523
- 2020 M Mosing, AD Waldmann, **M Sacks**, P Buss, JM Boesch, GE Zeiler (2020): What hinders pulmonary gas exchange and changes distribution of ventilation in immobilized white rhinoceroses (*Ceratotherium simum*) in lateral recumbency? *J. Appl. Physiol.* 129,1140–1149
- 2018 A Binetti, M Mosing, **M Sacks**, L Duchateau, F Gasthuys, S Schauvliege (2018): Impact of trendelenburg (head down) and reverse trendelenburg (head up) position on respiratory and cardiovascular function in anaesthetized horses. *Vet. Anaesth. Analg.* 45 (6), 760–771
- 2017 **M Sacks**, SK Ringer, AS Bischofberger, R Bettschart-Wolfensberger (2017): Clinical comparison of dexmedetomidine and medetomidine for isoflurane balanced anaesthesia in horses; *Vet. Anaesth. Analg.* 44 (5), 1128–1138
- M Mosing, **M Sacks**, S Tahas, E Ranninger, S Böhm, I Campagna, A Waldmann (2017): Ventilatory incidents monitored by electrical

impedance tomography in an anaesthetized orangutan (*Pongo abelii*); *Vet. Anaesth. Analg.* 44 (4), 973–976

**M Sacks**, M Mosing (2017): Volumetric capnography to verify venous air embolism in an anaesthetised horse; *Vet. Anaesth. Analg.* 44 (1), 189–190

2016 S Frei, AE Fürst, **M Sacks**, AS Bischofberger (2016): Fixation of supraglenoid tubercle fractures using distal femoral locking plates in 3 Warmblood horses; *Vet. Comp. Orthop. Traumatol.* 29 (3)

A Kobler, S Hartnack, **M Sacks**, R Bettschart-Wolfensberger (2016): Evaluation of tidal volume measurements of the anaesthesia device Tafonius® in vitro and in vivo; *Pferdeheilkunde* 32 (5), 449–456

2014 L Klein, **M Sacks**, AE Fürst, F Del Chicca, P Grest, MA Jackson (2014): Fixation of chronic suture exostosis in an adult horse; *Equine vet. Educ.* 26 (4), 171–175

#### Scientific Abstracts and Short Communications

2022 **M Sacks**, S Raidal, G Hosgood, M Catanchin, M Mosing (2022): How sedation, body position change and continuous positive airway pressure alter distribution of ventilation in foals. Preliminary results; scientific (online) poster presentation at ACVIM Forum in Texas, USA

2017 M Mosing, **M Sacks**, A Waldmann, S Wenger, SB Böhm, P Buss, DV Cooper, (2017): Distribution of ventilation in Southern White Rhinoceroses measured by Electrical Impedance Tomography; Abstract presentation at the ANZCVS Science Week in Queensland, Australia

**M Sacks**, S Wenger, P Buss, DV Cooper, M Mosing (2017): Volumetric Capnography derived pulmonary dead space values in southern white Rhinoceroses; Abstract presentation at the ANZCVS Science Week in Queensland, Australia

Winner of the Boehringer Ingelheim „Judge’s favourite“ award (valued \$500AUD)

2015 **M Sacks**, SK Ringer, AS Bischofberger, R Bettschart-Wolfensberger (2015): Sedation, cardiovascular function and recovery of medetomidine versus dexmedetomidine isoflurane balanced anaesthesia in horses – preliminary study results; Abstract presentation at the World Congress of Veterinary Anaesthesiology, Kyoto, Japan

### Auszeichnungen

„Favourite Resident 2020“ – gewählt durch die Studienabgänger 2020 der Murdoch University, Perth WA

„Favourite Resident 2019“ – gewählt durch die Studienabgänger 2019 der Murdoch University, Perth WA

„Best Intern 2018“ – gewählt durch die Studienabgänger 2018 der Murdoch University, Perth WA

„Virbac Best Coach Award 2015“ – Beste Lehrperson im Bereich Grosstiere der Vetsuisse Fakultät 2015, gewählt durch die Studienabgänger der Vetsuisse Fakultät Zürich, Schweiz

### English Lectures

„Equine Ophthalmology“ – 4<sup>th</sup> year DVM student lectures for the veterinary students of Murdoch University (2020 / 21 / 22)

„Anaesthesia of the foal“ – basics of neonatal and young animal's anaesthesia, special requirements for foal anaesthesia, clinical approach, presented at Zurich University for formal large animal rounds

„Volumetric Capnography as a diagnostic tool for acute pulmonary embolism“ – basics of capnography and volumetric capnography, theoretical background of APE, diagnostics of APE, presented at Zurich University for formal large animal rounds

„Pain assessment in horses“ – case reports of four equine patients with chronic lameness (organisation of an assessor team with clinicians, caretakers and students; Data analysis), presentation of collected data with introduction to horse grimace scale, composite pain scales and visual analogue scale, presented at Zurich University for formal large animal rounds

„Anaesthesia of the equine patient with upper or lower respiratory tract disease“ – overview of respiratory problems in equine patients, special considerations about anaesthesia, clinical approach, presented at Zurich University for formal large animal rounds

## ORGANISATORISCHE KOMPETENZEN

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2022	Vorstehende der australischen non-for-profit charity <i>Egypt Equine Aid</i>
2012–2014	Teilzeitanstellung an der Reception für Kleintiere des universitären Kleintierspitals Zürich
2012	Exchange – Officer für "International Veterinarian Students Association" IVSA, Chapter of Zurich; Organisation und Durchführung mehrerer Gruppen- und Einzelstudentenaufenthalte
	Vertretung für das IVSA Chapter of Zurich am 61 <sup>th</sup> IVSA Kongress; Thema "Aqua medicine and animal welfare", Oslo, Norwegen

## STIPENDIEN / DRITTMITTEL

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2019	Murdoch University Veterinary Fund Grant (Equine projects grant, im Wert von \$6800AUD)
2018	Murdoch University Academic Excellence Award – Postgraduate (Student scholarship, im Wert von \$3000AUD)

## MITGLIEDSCHAFTEN

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2020/21	Mitglied der Golden Key Honour Society
	American Association of Equine Practitioners, AAEP
Seit 2018	Non-for profit charity <i>Egypt Equine Aid</i>
Seit 2016	Australian Veterinary Association AVA (Equine Veterinary Association EVA & Integrative Veterinarians Australia IVA)
2015	Association of Veterinary Anaesthetists AVA, Cambridge, UK
2010 – 2016	Verein Forschung für das Pferd (Association of research for horses), Zurich, Switzerland



## PERSÖNLICHE KOMPETENZEN

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Persönliche Hauptmerkmale: Flexibel, enthusiastisch, gewissenhaft, effizient  
Hohe soziale Kompetenz mit herausragender Teamfähigkeit  
Interessenschwerpunkte in Grosstierkardiologie, Lungenerkrankungen und Neurologie  
Leidenschaftliches Engagement für die Förderung des internationalen Standards für Tierschutz

Sprachen: Deutsch (Muttersprache)  
Englisch (Fortgeschritten schriftlich und mündlich, *First Certificate of Cambridge, Occupational English Test OET*)  
Spanisch (Fortgeschritten in schriftlich und mündlich)  
Französisch (Basiskenntnisse)