

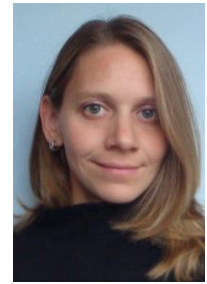
CURRICULUM VITAE

PERSONAL INFORMATION

Dr Susanne Holtze

Urbanstr. 174, 10961 Berlin, Germany
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susanne.holtze@gmx.net

Date of birth 16/08/1977 | Nationality German



WORK EXPERIENCE

06/2021 – currently **Senior Scientist (IZW)**

09/2012 – 05/2021 **Postdoctoral Researcher (IZW)**

Leibniz Institute for Zoo and Wildlife Research (IZW)
Alfred – Kowalke – Str. 17
10315 Berlin, Germany
<http://www.izw-berlin.de>

Department of Reproduction Management (Prof T. B. Hildebrandt)

EDUCATION AND TRAINING

06/2005 – 12/2012 **Doctorate in Neuroscience**

Charité Berlin Neuroimaging Center, Berlin, Germany &
Max-Planck-Institute (MPI) for Human Cognitive and Brain Sciences, Leipzig, Germany
Title: "Inhibition in the Human Somatosensory System" (supervisor Prof A. Villringer)

Dr. rer. nat.
Magna cum laude

10/2005 – 02/2012 **University Degree in Veterinary Medicine**

FU (Free University Berlin), Germany
European license to practice veterinary medicine

"good"

04/1998 – 09/2004 **University Degree in Biology (German "Diplom")**

FU, Germany
Focus on animal physiology and behaviour

"very good"

09/2003 – 07/2004 **Master's Thesis in Biology**

VTHRC (Vision, Touch and Hearing Research Centre), University of Queensland, Australia
Title: "Chromatic and Achromatic Colour Vision in Zebra Finches" (supervisor Prof. R. Menzel)

"very good"

PERSONAL SKILLS AND INTERESTS

- Driver's licence, diver certification (PADI)
- Experienced in the use of sophisticated scientific software (Matlab, R, SPM)
- Board member of the association "Biologienetz Berlin e.V." 2005 – 2012

TRAINING AND EXPERIENCE

Teaching	
2017 – 2026	Lecturing for the veterinary faculty of FU Berlin (Wildlife reproduction medicine)
2017 – 2024	Ultrasound workshops for zoo veterinarians in wildlife medicine
2012 – 2017	Lecturing (FU, HU Berlin) & supervision of bachelor, master, and PhD students at IZW, Berlin
2010 – 2012	Tutoring students of veterinary medicine (FU Small Animal Clinic), Berlin
2001 – 2004	Tutoring students of biology (FU, Faculty of Neurobiology) , Berlin
Funding / Awards	
2023	Award for best publication of the year in the journal 'Reproduction'
2023 – 2027	Seed Funding Leibniz Research Alliance Resilient Ageing (LRA-RA)
2018	Partner in SAW-2018-DRFZ: EplmAge
2017	SAS-2017-IZW-LFV, Leibniz Research Alliance Healthy Ageing
2016	SAS-2016-FLI-LFV, Leibniz Research Alliance Healthy Ageing
2008 – 2010	PhD scholarship of the Max Planck Institute for Human Cognitive and Neurosciences, Leipzig, Germany
2005 – 2010	PhD scholarship (DFG Graduate School)
2003 – 2004	DAAD scholarship for master's thesis at UQ, Brisbane, Australia
2000 – 2001	Erasmus scholarship of the European Union for studying in Siena, Italy
Traineeships	
04 – 05 / 2012	Veterinary internship at the Wildlife Hospital of Australia Zoo
08 – 09 / 2011	Veterinary internship at OFI Orangutan Care Center for orphaned Orangutans, Borneo, Indonesia
06 – 07 / 2011	Veterinary internship at Leipzig Zoological Garden, Germany
05 – 06 / 2011	Veterinary internship at IZW, Berlin, Germany
12 / 2010	Internship at Tolga Bat Hospital in rehabilitation of Australian mega- and microbats, Atherton, Australia
07 – 08 / 2008	Field course on bat ecology at the University Beersheba, Israel
02 – 07 / 2001	Ecological investigation within the research project "The modelling and monitoring of Lago di Montepulciano" of University of Siena for the province of Siena, Italy
04 / 1999	Field assistant in ethology on <i>Sanguinus tripartitus</i> , Tiputini-Biodiversity-Station, Ecuador

LANGUAGE PROFICIENCY

Mother Tongue	German				
Other Languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
IELTS (2004) level 8.0					
Italian	C2	C2	C2	C2	C2
Spanish	C2	C2	C1	C1	C1
French	C1	C1	B2	B2	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages

BERLIN, February 26, 2026



PUBLICATION RECORD

Peer-reviewed publications: 80

h-index: 25

TEN KEY PUBLICATIONS

Holtze S, Demirtürk, D., Ohlenschläger, O., Hegele, S., Siniuk, K., Förste, S., Raghavan, V., Groth, M., Bens, M., Hassel, N. and Martel, A., 2025. The transcriptome of the olm provides insights into its evolution and gene expression. *Scientific reports*, 15, p.28324.

Hildebrandt TB*, **Holtze S***, Colleoni S*, Hermes R, Stejskal J, Lekool I, Ndeereh D, Omondi P, Kariuki L, Mijeje D, Mutisya S, Ngulu S, Diecke S, Hayashi K, Lazzari G, de Mori B, Biasetti P, Quaggio A, Galli C, Goeritz F. (2023). In vitro fertilization program in white rhinoceros. *Reproduction*.166:383-399. doi: 10.1530/REP-23-0087.

Fasel NJ, Jeucken J, Kravchenko K, Fritze M, Ruczyński I, Komar E, Moiseienko M, Shulenko A, Vlaschenko A, Christe P, Glazot O, **Holtze S**. Mating without intromission in a bat. *Current Biology*. 2023 Nov 20;33(22):R1182-3.

Hildebrandt TB*, Holtze S*, Colleoni S*, Hermes R, Stejskal J, Lekool I, Ndeereh D, Omondi P, Kariuki L, Mijeje D, Mutisya S, Ngulu S, Diecke S, Hayashi K, Lazzari G, de Mori B, Biasetti P, Quaggio A, Galli C, Goeritz F. (2023). In vitro fertilization program in white rhinoceros. *Reproduction*.166:383-399. doi: 10.1530/REP-23-0087.

Holtze S, Gorshkova E, Braude S, Cellerino A, Dammann P, Hildebrandt TB, Hoeflich A, Hoffmann S, Koch P, Terzibasi Tozzini E, Skulachev M, Skulachev VP, Sahm A. (2021). Alternative animal models of aging research. *Frontiers in Molecular Biosciences*, 8, 311. <https://doi.org/10.3389/fmolb.2021.660959>

Holtze S, Koch R, Hildebrandt TB, Lemma A, Szafranski K, Platzer M, Alemayehu F, Goeritz F, Braude S (2021). Hematologic adaptation to the subterranean environment by the naked mole-rat, *Heterocephalus glaber* (Ctenohystryca: Heterocephalidae). *J MAMMAL* 101:1000–1009. doi: 10.1093/jmammal/gyaa053

Braude S*, **Holtze S***, Begall S, Brenmoehl J, Burda H, Dammann P, Del Marmol D, Gorshkova E, Henning Y, Hoeflich A, Höhn A, Jung T, Hamo D, Sahm A, Shebzukhov Y, Šumbera R, Miwa S, Vyssokikh MY, von Zglinicki T, Averina O, Hildebrandt TB. (2020). Surprisingly long survival of premature conclusions about naked mole-rat biology. *Biological Reviews*, 96, 376-393. doi: 10.1111/brv.12660.

Vyssokikh MY, **Holtze S**, Averina OA, Lyamzaev KG, Panteleeva AA, Marey MV, Zinovkin RA, Severin FF, Skulachev MV, Fasel N, Hildebrandt TB, Skulachev VP (2020): Mild depolarization of the inner mitochondrial membrane is a crucial component of an anti-aging program. *PROC NATLACAD SCI USA*, 117, 6491–6501. doi:10.1073/pnas.1916414117

Holtze S, Lukač M, Cizelj I, Mutschmann F, Szentiks CA, Jelić D, Hermes R, Göritz F, Braude S, Hildebrandt TB (2017). Monitoring health and reproductive status of olms (*Proteus anguinus*) by ultrasound. *PLoS One*, 12(8), e0182209.

Skulachev VP*, **Holtze S***, Vyssokikh MY, Bakeeva LE, Skulachev MV, Markov AV, Hildebrandt TB**, Sadovnichii VA** (2017). Neoteny, Prolongation of Youth: From Naked Mole Rats to "Naked Apes" (Humans). *Physiol Rev*, 97:699-720.

* authors contributed equally to the publication

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