ExE: Arbeitsgruppe Stress: Publikationen **2024 ff**

*Erschienen* ***(Pkt.)*** *- 0 Paper ()*

*in press* ***(110 Pkt.)*** *- 4 papers*

Streiff, C., Herrera, A., Voelkl, B., Palme, R., Würbel, H., Novak, J. (2024): The impact of cage dividers on mouse aggression, dominance and hormone levels. PLoS ONE (accepted: 4th Jan 2024)

**20** Pkt (IF: 3,7; Multidisc. 26/73)

Marchesini, G., Fossaluzza, D., Palme, R., Andrighetto, I., Magrin, L., Serva, L. (2024): Management of dairy heifers: can operant conditioning be an effective and feasible tool to decrease stress and ease animals’ close contact and handling? J. Dairy Sci. (accepted 11th Jan 2024)

**40** Pkt (IF: 3,5; Agriculture, Dairy & Anim. Sci. 9/62)

Tampach, S., Lopez-Olvera, JR., Palme, R., Schwarzenberger, F., Baauw, A., Anderwald, P., Albanell, E. (2024): Little agreement among methodologies to determine faecal glucocorticoid metabolites in a mountain ungulate. Global Ecol. Cons. (accepted: 1st Feb 2024)

**40** Pkt (IF: 4,0; Ecol 45/171)

Stead, SM., Edwards, P., Persad, R., Boonstra, R., Teichroeb, JA., Palme, R., Bowman, J. (2024): Coping with extreme free cortisol levels: seasonal stress axis changes in sympatric North American flying squirrels. Gen. Comp. Endocrinol. (accepted: 3rd Feb 2024)

**10** Pkt (IF: 2,7; Reprod. 110/145)

*eingereicht – 16 papers (davon 9 revisions)*

Diez-Leon, M., Decker, S., Escribano, N., Galicia, D., Palme, R., Mason, G. (): Do single ladies and hot males need space? The welfare relevance of cage floor area for different sub-populations of farmed American mink (*Neovison vison*). Appl. Anim. Beh. Sci. (revision: Feb 2024; submitted: 24th Oct 2021)

Amin, B., Fishman, R., Jennings, D., Quinn, M., Matas, D., Palme, R., Koren, L., Ciuti, S. (): Sex-specific relationship between maternal and neonate cortisol in a free-ranging large mammal. PCI Zool. (rerevision: 15th Feb 2024; revision: 20th Sept; submitted: May 2023, rejected: Biol. Lett.) <https://doi.org/10.1101/2023.05.04.538920>

Kreuzer, L., Naber, A., Zink, R., Millesi, E., Palme, R., Hediger, K., Glenk, LM. (): Horses’ cardiovascular and glucocorticoid responses to equine-assisted therapy with women with intellectual disability: An exploratory study. Appl. Anim. Welfare Sci. (submitted: May 2023)

Naber, A., Kreuzer, L., Zink, R., Millesi, E., Palme, R., Hediger, K., Glenk LM. (): Heart rate, heart rate variability and salivary cortisol as indicators of arousal and synchrony in equine-assisted interventions between clients with intellectual disability, therapy horses and therapists: An exploratory study. Front. Psychol. (revision: Aug; submitted: May 2023)

Granweiler, J., Cristóbal-Azkarate, J., Morton, N., Palme, R., Shultz, S. (): The paradox of spring: thyroid and glucocorticoid responses to cold temperatures and food availability in free living Carneddau ponies. Horm. Beh. (rerevision: Feb; revision: 28th Nov; submitted 2nd Aug 2023; editorial reject: Funct. Ecol.)

Nordgreen, J., Dumontier, L., Smulders, TV., Vas, J., Palme, R., Janczak, AM. (): The effect of rearing and of the adult environment on HPA-axis responsivity and plumage condition in laying hens. Animal (submitted 18th Aug 2023; editorial reject: Appl. Anim. Beh. Sci.)

La Porta, C., Plum, T., Palme, R., Tappe-Theodor, A. (): Stress susceptibility aggravates and prolongs hypersensitivity in an arthritis mouse model via immune system modulation. Brain Beh. Immun. (revision: Feb; submitted: 5th Sept 2023; editorial reject: Biol. Psychiatry)

Edwards, PD., Munir, J., Goldman, BD., Boonstra, R., Palme, R., Mastromonaco, GF., Holmes, MM. (): The endocrinology and behavior of reproductive activation and success in an extreme cooperative breeder. Gen. Comp. Endocrinol. (revision: 18th Jan; submitted: 12th Sept 2023)

Kaisin, O., Amaral, R., Sabino, G., Palme, R., Poncin, P., Rezende, G., Brotcorne, F., Culot, L. (): Lower habitat quality increases physiological stress in an endangered neotropical primate. Anim. Cons. (submitted: Oct 2023)

Santicchia, F., Tranquillo, C., Wauters, LA., Palme, R., Preatoni, D., Bisi, F., Martinoli, A. (): Physiological stress response to urbanisation and intraspecific competition in native and invasive squirrels. Sci. Tot. Environ. (revision: 29th Jan 2024; submitted 31st Oct 2023, editorial rej.: Funct. Ecol; J. Anim. Ecol.).

Charrier, M., Lumineau, S., George, I., Meurisse, M., Georgelin, M., Palme, R., Angelier, F., Coustham, V., Nicolle, C., Bertin, A., Darmaillacq, AS., Dickel, L., Guémené, D., Calandreau, L., Houdelier, C. (): Maternal stress effects across generations in a precocoial bird. Roy. Soc. Open Access (revision: Feb 2024; submitted: 28th Nov. 2023; rejected: Proc. Roy. Soc. B; BMC Biology).

Jung, TS., Peers, MJL., Edwards, PD., Schmiegelow, FKA., Palme, R., Boonstra, R. (): Assessing the influence of human hunting on stress and diet quality of forest-dwelling bison (*Bison bison*). Global Ecol. Cons. (revision: Feb 2024; submitted 18th Dec 2023)

Pedretti, G., Canori, C., Costantini, E., Marshall-Pescini, S., Palme, R., Valsecchi, P. (): Intra and interspecific audience effect on domestic dogs' behavioural displays and facial expressions. Sci. Rep. (submitted 22nd Dec 2023; rejected after revision: Anim. Beh.)

Britnell, J., Palme, R, Lea, JMD., Kerley, GIH., Jackson J., Shultz, S. (): Different assays disagree about the relationship between ecological factors and HPA activity in the Cape mountain zebra (*Equus zebra zebra*). Funct. Ecol. (submitted: 6th Jan 2024; Rejected: Funct. Ecol.)

Sacchi, R., Coladonato, AJ., Mangiacotti, M., Scali, S., Zuffi, MAL., Palme, R., Pasquariello, C., Matellini, C., Buratti, S:, Salgarella, G., Battaiola, M. (): Colour morphs as alternative solutions to the trade-off predicted by the Immuno-Competence Handicap Hypothesis. (submitted 3rd Jan 2024; editorial reject: PNAS)

Hart, EN., Palme, R., Greenblatt, N., Takeshita, RSC. (): Stress response to the death of a group member in northern white-cheeked gibbons (*Nomascus leucogenys*). Primates (submitted 31st Jan 2024)

Schulz, B., Leitner, E., Schreiber, T., Lindner, T., Schwarz, R., Aboutarra, N., Ma, X., Escobar, HM., Palme, R., Hinz, B., Vollmar, B., Zechner, D. (): Sex matters – insights from testing drug efficacy in an animal model of pancreatic cancer. Cancers (submitted: 6th Feb 2024) IF: 5,2 (Oncol. 72/241)

*in Vorbereitung (11 papers)*

Marozzi, A., Correa, SG., Ponzio, MF., Palme, R., Marin RH., Nazar, FN. (): Chronic stress effects on immune-neuroendocrine matrix in *Coturnix coturnix*, analyses from an ontogenetic perspective. (submitted: rejected: Sci. Rep.)

Ebensperger, LA., Abades, S., Palme, R., Corre, LA., Riquelme, J., Hayes, LD. (): Group size and body mass mediate fitness effects of ecological conditions in the females of a communally rearing rodent. Beh. Ecol. (submitted: )

Vogt, MA., Härtel, T., Neunecker, SM., Follert, P., Palme, R., Chourbaji, S. (): Home sweet home: Influences of nesting and bedding material on postnatal development and animal welfare of Wistar rats. (rejected: Animals)

Lalande, LD., Bourgoin, G., Carbillet, J., Cheynel, L., Debias, F., Ferté, H., Gaillard, JM., Garcia, R., Lemaître, JF., Palme, R., Pellerin, M., Peroz, C., Rey, B., Vuarin, P., Gilot-Fromont, E. (): Glucocorticoids and immunosenescence patterns in a wild ungulate. Proc. Roy. Soc. B (submitted)

Bartolomé, A., Palme, R., Macho-Maschler, S., Carazo, P., Fonta, E. (): Validation of two enzyme immunoassays for non-invasive glucocorticoid measurement in a lacertid lizard (*Podarcis muralis*): effects of pharmacological and biological stimuli on faecal corticosterone metabolites and behaviour.

Sosa, S., Saraux, C., Dobson, FS., Boonstra, R., Bordier, C., Bosson, C., McCaw, L., Palme, R., Stier, A., Schull, Q., Zahn, S., Criscuolo, F., Viblanc, VA. (): Maternal legacies: effects of maternal condition and stress on offspring development and survival in a wild mammal. Oecologia (reject with option to resubmit: 18th May; submitted 24th Feb 2022, editorial reject: Ecology)

Ostermeier, S., Venner, M., Macho-Maschler, S., Palme, R., Vervuert, I. (): gastric ulcera in horses and FCMs. 2 papers (Vet. Sci. und Animals)

Wilson, HA., Stothart, MR., Hotchkiss, M., Palme, R., Newman, AEM. (): Does urbanization disrupt seasonal dynamics in the gut-brain axis of a wild mammal?

Röder, M., Sutter, F., Borchardt, S., Palme, R., Heuwieser, W. (): Kot/Speichel/Kälber – Enthornung (Heuwieser schreibt es im Sommer 2023 selber)

Wirobski G., Range, F., Palme, R., Deschner, T., Marshall-Pescini, S. Comparison of hormonal and behavioural correlates of the breeding systems of wolves and dogs. (?)

Malmkvist, J., Damgaard, BM., Palme, R. (): Excretion of 3H-cortisol and -testosterone in male farm mink: The basis for a non-invasive measurement of faecal hormone metabolites. Animals (submitted:)

*Vorträge:*

**24. April 2024:** Royal Veterinary College, London “Non-invasive measurement of adrenocortical activity in animals” (invited speaker)

*Dissertationen:*

Tzt Christina Ziegenhofer (01005360; mit Doz. Birgitt Wolfersberger): “Faecal cortisol metabolites in cats and dogs under cancer therapy” ab SS18

Simona Winckler; PhD One Health – Start Oktober 2023/24

*Diplomarbeit*

Franziska Yaldez (01555885) – ab WS 2019/2020: Androstane im Kot von Nutztieren und ihre mögliche Bedeutung.

Elisabeth Brandl (eingesprungen für Judith Radloff).

Larissa Reiter (bin für Amelia Wein-Schwing eingesprungen)

Speichelkortisolanalysen bei folgenden Diplomarbeiten: Britta Mang, 01545273; Sandra Mliner und Lisa Jank, 11774512 (Betreuer Herr Mag. Weissenbacher; Messerli Inst)

*Bachelorarbeit*

*Praktikanten*:

**12.-14.2.2024** (vormittags): Emil Alk (Schnupperlehre):

**13.-23.2.2024:** Marlena Schneilinger (12304316) – Biomed.

*Gäste*:

**Ab 14.11.2023:** Aurelia Nowak und 2 Biomed Praktikantinnen: Extraktion von 2000 Pferdekotproben (PhD bei Franziska Dengler) Betreuung: SMM

**14.11.2023-19.1.2024:** Selina (Diplomandin von Kerstin Auer): Mäusekotextraktion+ EIA (400 Proben) Betreuung: SMM

**11.1.-13.1.2024:** Speichelproben vorbereiten, Lisa Jank (Diplomarbeit Messerli Institut; 200 Proben)

**18.1./19.1.2024:** Speichelproben vorbereiten, Britta Wang (Diplomarbeit Messerli Institut; 150 Proben)

**22.–31.1.2024:** Maria Diez-Lion/Grete Nummert (Royal Vet College London/Tallinn Zoo) – möchte FCM Methode kennenlernen - Betreuung: SMM (40 Pferdekotextrakte; 80 Nerzkotextarkte)

**19.-23.2.2024:** Elena Morocutti & Lucrezia Lorenzetti (Luca Corlatti) – Rothirsch- und Murmeltierkot (1000 + 200 Proben) – Extraktion. SMM