

List of Publications

A. Research Articles and Reviews

2020

D. Mertenat, M. Dal Cero, C.R. Vogl, S. Ivemeyer, B. Meier, A. Maeschli, **M. Hamburger**, M. Walkenhorst, Ethnoveterinary knowledge of farmers in bilingual regions of Switzerland – is there potential to extend veterinary options to reduce antimicrobial use? *J. Ethnopharmacol.* **246**, 112184 (2020). doi: 10.1016/j.jep.2019.112184

M. Walkenhorst, F. Leiber, A. Maeschli, A. Kapp, A. Spengler-Neff, M. **T. Faleschini**, **E. Garo**, **M. Hamburger**, **O. Potterat**, P. Mayer, S. Graf-Schiller, A. Bieber, A multicomponent herbal feed additive improves health parameters in dairy cows - a two stage, multi center, placebo controlled long term on-farm trial. *J. Anim. Physiol. Anim. Nutr.* **104**, 439-452 (2020). doi: 10.1111/jpn.13297

V. Zabela, C. Sampath, **M. Oufir**, V. Butterweck, **M. Hamburger**, Single dose pharmacokinetics of intravenous 3,4-dihydroxyphenylacetic acid and 3-hydroxyphenylacetic acid in rats, *Fitoterapia* **142**, 104526 (2020). doi: 10.1016/j.fitote.2020.104526

D. Ehksam, S. Sieber, **M. Oufir**, F. Porta, **M. Hamburger**, J. Huwyler, H. E. Meyer zu Schwabedissen, Design, synthesis and characterization of a paclitaxel formulation activated by extracellular MMP9. *Bioconjugate Chem.* **31**; 781-793 (2020). doi: 10.1021/acs.bioconjchem.9b00865

S. Sharifi, P.G. Mostafavi, R. Tarasi, A.M. Moradi, M.H. Givianrad, M. Moridi Farimani, S.N. Ebrahimi, **M. Hamburger**, H. Niknejad, Purified compounds from marine organism sea pen induce apoptosis in human breast cancer cell MDA-MB-231 and cervical cancer cell HeLa, *Eur. J. Pharmacol.* **877**, 173075 (2020). doi: 10.1016/j.ejphar.2020.173075

A. Bisio, A.M. Schito, F. Pedrelli, **O. Danton**, **J. Reinhardt**, G. Poli, T. Tuccinardi, T. Bürgi, M. Giacomini, D. Calzia, I. Panfoli, G.C. Schito, **M. Hamburger**, N. De Tommasi, Antibacterial and ATP synthesis modulating compounds from *Salvia tingitana*, *J. Nat. Prod.* **83**, 1027-1042 (2020). doi: 10.1021/acs.jnatprod.9b01024

A.M. Zimmermann-Klemd, **J.K. Reinhardt**, A. Morath, W. Schamel, R. Huber, **M. Hamburger**, C. Gründemann, Immunosuppressive activity of *Artemisia argyi* extract and isolated compounds, *Front. Pharmacol.* **11**, 402 (2020). doi: 10.3389/fphar.2020.00402

C. Drescher, **M. Keller**, **O. Potterat**, **M. Hamburger**, R. Brückner, Structure-elucidating total synthesis of the (polyenoyl) tetramic acid militarinone C, *Org. Lett.* **22**, 2559-2563 (2020). doi: 10.1021/acs.orglett.0c00431

R. Zadali, S.N. Ebrahimi, Z. Tofighi, A. Es-haghi, **M. Hamburger**, M. Kaiser, M. D'Ambola, N. De Tommasi, A. Hadjiakhoondi, Antiprotozoal activity of diterpenoids isolated from *Zhumeria majdae* – absolute configuration by circular dichroism, *DARU J. Pharm. Sci.* (2020), doi: 10.1007/s40199-020-00345-w

A.B. Mahmoud, P. Mäser, M. Kaiser, **M. Hamburger**, S.A. Khalid, Mining Sudanese medicinal plants for antiprotozoal agents, *Front. Pharmacol.* **11**, 865 (2020). doi: 10.3389/fphar.2020.00865

A.B. Mahmoud, **O. Danton**, M. Kaiser, S.A. Khalid, **M. Hamburger**, P. Mäser, HPLC-based activity profiling for antiprotozoal compounds in *Croton zambesicus* and *Cuscuta hyalina*, *Front. Pharmacol.*, in press

A.B. Mahmoud, **O. Danton**, M. Kaiser, Sohee Han, A. Moreno, S.A. Algaffar, S. Khalid, W.K. Oh, **M. Hamburger**, P. Mäser, Lignans, amides, and saponins from the roots of *Haplophyllum tuberculatum* and their antiprotozoal activity, *Molecules* **25**, 2825; (2020). doi: 10.3390/molecules25122825

N.A. Walters, D. de Beer, A. de Villiers, **O. Danton**, **M. Hamburger**, E. Joubert, Phenolic profiling of *Cyclopia pubescens* (honeybush) using comprehensive off-line CCC×LC-DAD-MS separation and structural elucidation of isolated compounds, *Phytochem. Anal.* 1-15 (2020). doi: 10.1002/pca.2981

A. Agapouda, V. Butterweck, **M. Hamburger**, D. De Beer, E. Joubert, A. Eckert, Honeybush extracts (*Cyclopia* spp.) rescue mitochondrial functions and bioenergetics against oxidative injury, *Oxid. Med. Cell. Longevity* 948602 (2020), doi: 10.1155/2020/1948602

A.M. Zimmermann-Klemd, **J.K. Reinhardt**, **T. Nilsu**, A. Morath, C. Falanga, W.W. Schamel, R. Huber, **M. Hamburger**, C. Gründemann, *Boswellia carteri* and 3-O-acetyl- α -boswellic acid suppress T cell activation by inhibiting the NFAT signalling pathway, *Fitoterapia* **146**, 104694, (2020), doi: 10.1016/j.fitote.2020.104694

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K. Stucki, M. Dal Cero, C.R. Vogl, S. Ivemeyer, B. Meier, A. Maeschli, **M. Hamburger**, M. Walkenhorst, Ethnoveterinary knowledge of farmers in pre-alpine and alpine regions of the Swiss cantons of Bern and Lucerne compared to ancient and recent literature – is there a tradition? *J. Ethnopharmacol.* **234**, 225-244 (2019). doi: 10.1016/j.jep.2018.12.022

N. Syafni, **F. Moradi-Afrapoli**, **O. Danton**, A. Wilhelm, M. Stadler, S. Hering, **O. Potterat**, **M. Hamburger**, HPLC-based activity profiling for GABA_A receptor modulators from *Murraya exotica*. *Nat. Prod. Comm.* **14**, 41-45 (2019).

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M. Oufir, **V. Zabela**, T. Hettich, G. Schlotterbeck, L. Wimmer, M. D. Mihovilovic, F. Guillet, B. Bouaita, B. Shevchenko, M. Hamburger, Piperine analogs as modulators of the central nervous system. *Chimia* (2019). doi: 10.2533/chimia.2019.1

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