

List of Publications

A. Research Articles and Reviews

2019

S.M. Tabatabaei, S.N. Ebrahimi, P. Salehi, A. Sonboli, M. Tabefam, M. Kaiser, **M. Hamburger**, M. Moridi Farimani, Antiprotozoal germacranolide sesquiterpene lactones from *Tanacetum sonbolii*. *Planta Med.* **85**, 424-430 (2019). doi: 10.1055/a-0824-1294

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).

M.B. Kahnamoei, M. Tabefam, S.N. Ebrahimi, **O. Danton**, **M. Hamburger**, M.M. Farimani, Chemical constituents from the ethyl acetate extract of *Salvia hydrangea* DC. ex Benth, *Nat. Prod. Comm.* (2019). In press

S. Santos, C. Haslinger, K. Klaić, **M.T. Faleschini**, M. Mennet, **M. Hamburger**, **O. Potterat**, U. von Mandach, A.P. Simões-Wüst, A bufadienolide-enriched fraction of *Bryophyllum pinnatum* effectively inhibits myometrium contractility in vitro. *Planta Med.* **85**, 385-393 (2019). doi: 10.1055/a-0810-7704

U. Weissenstein, M. Kunz, **M. Oufir**, **J.T. Wang**, **M. Hamburger**, K. Urech, U. Regueiro, S. Baumgartner, Absence of herb-drug interactions of mistletoe with the tamoxifen metabolite (E/Z)-endoxifen and cytochrome P450 3A4/5 and 2D6 *in vitro*. *BMC Complem. Altern. Med.* **19**, 23 (2019). doi: 10.1186/s12906-019-2439-2

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

M. Akaberi, **O. Danton**, Z. Tayarani-Najaran, J. Asili, M. Iranshahi, S. A. Emami, **M. Hamburger**, HPLC-based activity profiling for antiprotozoal compounds in the endemic Iranian medicinal plant *Helichrysum ocephalum*. *J. Nat Prod.* (2019). doi: 10.1021/acs.jnatprod.8b01031

M. Moridi et al. **M. Hamburger**, Terpenoids and phenolics of *Micromeria persica*. *Nat. Prod. Res.* (2019). doi: 10.1080/14786419.2019.1598988

M. Hamburger, HPLC-based activity profiling for pharmacologically and toxicologically relevant natural products – principles and recent examples. *Pharm. Biol.* **57**, 328 -334 (2019), doi: 10.1080/13880209.2019.1606261

M.T. Faleschini, A. Maier, S. Fankhauser, K. Thasis, S. Hebeisen, **M. Hamburger**, M. Butterweck, Discovery of GABA_A receptor modulators of natural origin - Validation of a FLIPR assay for screening and HPLC-based activity profiling. *Planta Med.*, (2019). doi: 10.1055/a-0921-7602

J.K. Reinhardt, **A.M. Klemd**, **O. Danton**, **M. De Mieri**, M. Smiesko, R. Huber, T. Bürgi, C. Gründemann, **M. Hamburger**, Sesquiterpene lactones from *Artemisia argyi* - absolute configuration and immunosuppressive activity. *J. Nat. Prod.* (2019). doi: 10.1021/acs.jnatprod.8b00791

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I. Baburin, R. Varkevisser, **A. Schramm**, P. Saxena, T. Linder, A. Stary-Weinzinger, M.A.G. van der Heyden, M. Houtman, H. Takanari, M. Jonsson, H.D. Beekman, **M. Hamburger**, M.A. Vos, S. Hering, Dehydroevodiamine and hortiamine, alkaloids from the traditional Chinese herbal drug *Evodia rutaecarpa*, are IKr blockers with proarrhythmic effects *in vitro* and *in vivo* *Pharmacol. Res.* **131**, 150-163 (2018). doi: 10.1016/j.phrs.2018.02.024

V. Zabela, T. Hettich, G. Schlotterbeck, L. Wimmer, M. D. Mihovilovic, F. Guillet, B. Bouaita, B. Shevchenko, **M. Hamburger**, **M. Oufir**, GABAA receptor activity modulating piperine analogs: In vitro metabolic stability, metabolite identification, CYP450 reaction phenotyping, and protein binding, *J. Chromatogr. B.* **1072**, 379-389 (2018). doi:10.1016/j.jchromb.2017.11.036

M. Tabefam, M. Moridi Farimani, **O. Danton**, **J. Ramseyer**, M. Kaiser, S.N. Ebrahimi, P. Salehi, H. Batooli, **O. Potterat**, **M. Hamburger**. Antiprotozoal diterpenes from *Perovskia abrotanoides*. *Planta Med.* **84**, 913-919 (2018). doi: 10.1055/a-0608-4946

M.M. Farimani, B. Khodaei, H. Moradi, A. Aliabadi, S.N. Ebrahimi, **M. De Mieri**, M. Kaiser, **M. Hamburger**, Phytochemical study of *Salvia leeriifolia* roots: rearranged abietane diterpenoids with antiprotozoal activity. *J. Nat. Prod.* **81**, 1384-1390 (2018). doi: 10.1021/acs.jnatprod.7b01019

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M. Oufir, K. Gillingwater, **M. Hamburger**, I. Roditi, R. Brun, P. Mäser, T. Wenzler, Pharmacokinetic profiles reconcile *in vitro* and *in vivo* activities of novel trypanocidal compounds. *ScienceMatters* (2018). <https://sciencematters.io/manuscript/201805000002>

M.B. Bahadori, M. Eskandani, M. de Mieri, **M. Hamburger**, H. Nazemiyeh, Anti-proliferative activity-guided isolation of clerodermic acid from *Salvia nemorosa* L.: Geno/cytotoxicity and hypoxia-mediated mechanism of action. *Food Chem. Toxicol.* **120**, 155-163 (2018). doi: 10.1016/j.fct.2018.06.060

B. Thuerig, **J. Ramseyer**, **M. Hamburger**, M. Ludwig, T. Oberhänsli, **O. Potterat**, H.-J. Schärer, L. Tamm, Efficacy of a *Magnolia officinalis* bark extract against grapevine downy mildew and apple scab under controlled and field conditions. *Crop Protection* **114**, 97-105 (2018). doi: 10.1016/j.cropro.2018.08.011

M. Tabefam, M.M. Farimani, **O. Danton**, **J. Ramseyer**, S.N. Ebrahimi, M. Neuburger, M. Kaiser, P. Salehi, O. Potterat, **M. Hamburger**, Antiprotozoal Isoprenoids from *Salvia hydrangea*. *J. Nat. Prod.*, **81**, 2682–2691 (2018). doi: 10.1021/acs.jnatprod.8b00498

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S. Fuchs, I. Bischoff, E.A. Willer, J. Bräutigam, M.F. Bubik, C.A.J. Erdelmeier, E. Koch, **M.T. Faleschini**, **M. De Mieri**, **M. Bauhart**, Andreas Hensel, **M. Hamburger**, **O. Potterat**, R. Fürst, The dual edema-preventing molecular mechanisms of the Crataegus extract WS® 1442 can be assigned to distinct phytochemical fractions. *Planta Med.* **83**, 701-709 (2017), doi:10.1055/s-0042-123388.

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A. Bozicevic, **M. De Mieri**, **A. Di Benedetto**, **M. Hamburger**, Dammarane-type saponins from leaves of Ziziphus spinae-christi. *Phytochemistry* **138**, 134-144 (2017).

A. Bisio, **M. De Mieri**, L. Milella, A. M. Schito, A. Parricchi, D. Russo, S. Alfei, M. Lapillo, T. Tuccinardi, **M. Hamburger**, N. De Tommasi, Antibacterial and hypoglycemic diterpenoids from Salvia chamaedryoides. *J. Nat. Prod.* **80**, 503–514 (2017). doi: 10.1021/acs.jnatprod.6b01053

M. Hamburger, **O. Potterat**, **K. Fürer**, A.P Simões-Wüst, U. von Mandach, Bryophyllum pinnatum – Reverse Engineering of an Anthroposophic Herbal Medicine. *Nat. Prod. Commun.* **12**, 1359-1364 (2017).

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S. Verjee, **E. Garo**, S. Pelaez, **O. Fertig**, **M. Hamburger**, V. Butterweck, Saffron flower extract promotes scratch wound closure of keratinocytes and enhances VEGF production. *Planta Med.* **83**, 1176-1183 (2017). doi:10.1055/s-0043-109002

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C. Guccione, **M. Oufir**, V. Piazzini, **D. E. Eigenmann**, **E. A. Jähne**, **V. Zabela**, **M.T. Faleschini**, M.C. Bergonzi, M. Smiesko, **M. Hamburger**, A.R. Bilia, Andrographolide-loaded nanoparticles for brain

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A. Bozicevic, **M. De Mieri**, C. Nassenstein, S. Wiegand, **M. Hamburger**, Secondary metabolites in allergic plant pollen modulate afferent neurons and murine tracheal rings. *J. Nat. Prod.* **80**, 2953-2961 (2017). doi:10.1021/acs.jnatprod.7b00495

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