

## List of Publications

### A. Research Articles and Reviews

#### 2021

C. Borsari, E. Keles, **A. Treyer**, M. De Pascale, P. Hebeisen, **M. Hamburger**, M. P. Wymann, Second-generation tricyclic pyrimido-pyrrolo-oxazine mTOR inhibitor with predicted blood-brain barrier permeability, *RSC Med. Chem.* **12**, 579-583 (2021). doi: 10.1039/D0MD00408A

**S. Santos**, L. Zurfluh, M. Mennet, **O. Potterat**, U. von Mandach, **M. Hamburger**, A.P. Simões-Wüst, Bryophyllum pinnatum compounds inhibit oxytocin-induced signalling pathways in human myometrial cells, *Frontiers Pharmacol.* **12**, 632986 (2021). doi: 10.3389/fphar.2021.632986

C. Human, **O. Danton**, D. De Beer, T. Maruyama, L. Alexander, C. Malherbe, **M. Hamburger**, E. Joubert, Identification of a novel di-C-glycosyl dihydrochalcone and the thermal stability of polyphenols in model ready-to-drink beverage solutions with Cyclopia subternata extract as functional ingredient, *Food Chemistry* **351**, 129273 (2021). doi: 10.1016/j.foodchem.2021.129273

**M. Keller**, S. Fankhauser, N. Giezendanner, M. König, **F. Keresztes**, **O. Danton**, **O. Fertig**, L. Marcourt, **M. Hamburger**, V. Butterweck, **O. Potterat**, Saponins from Saffron corms inhibiting the secretion and gene expression of pro-inflammatory cytokines, *J. Nat. Prod.* **84**, 630-645, (2021). doi: 10.1021/acs.jnatprod.0c01220

**J.T. Wang**, **O. Danton**, **A. Treyer**, **M. Hamburger**, Development of a solid-supported cysteinyl probe for the isolation of electrophiles from plant pollen extracts, *Talanta* **228**, 122216 (2021). doi: 10.1016/j.talanta.2021.122216

A. Salm, S. R. Krishnan, M. Collu, **O. Danton**, **M. Hamburger**, M. Leonti, G. Almanza, J. Gertsch, Phylobioactive hotspots in plant resources used to treat Chagas disease, *iScience* **15**, 24, 102310 (2021). doi: 10.1016/j.isci.2021.102310

A. Khademian, M. Tabefam, Z. Mazarei, M.R. Kanani, H. Sepehri, L. Delphi, **O. Danton**, **M. Hamburger**, M.M. Farimani, Chemical constituents and cytotoxic activity of *Stachys pilifera Benth.*, *S. Afr. J. Bot.* **139**, 1-4 (2021). doi: 10.1016/j.sajb.2021.02.022

#### 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. Ehrsam, 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.* **28**, 455-462 (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.* **11**, 1246 (2020), doi: 10.3389/fphar.2020.01246
- 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
- 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- $\alpha$ -boswellic acid suppress T cell activation by inhibiting the NFAT signalling pathway, *Fitoterapia* **146**, 104694, (2020), doi: 10.1016/j.fitote.2020.104694
- J.K. Reinhardt**, **A.M. Zimmermann-Klemd**, **O. Danton**, M. Smieško, C. Gründemann, **M. Hamburger**, Compounds from *Toddalia asiatica*: Immunosuppressant activity and absolute configurations, *J. Nat. Prod.* **83**, 3012–3020 (2020). doi: 10.1021/acs.jnatprod.0c00564

S.K. Kordkolaei, M.R. Kanani, M. Tabefam, N. N. Sarvestani, **M. Hamburger**, M.M. Farimani, Terpenoids and phenolics of *Micromeria persica*, *Nat. Prod. Res.* **34**, 2913-2918 (2020). doi: 10.1080/14786419.2019.1598988

C. Borsari, E. Keles, D. Rageot, M. De Pascale, **A. Treyer**, T. Bohnacker, A. Melone, R. Sriramaratnam, F. Beaufils, **M. Hamburger**, P. Hebeisen, W. Loescher, D. Fabbro, P. Hillmann, M. Wymann, 4-(Difluoromethyl)-5-(4-((3R,5S)-3,5-dimethylmorpholino)-6-((R)-3-methylmorpholino)-1,3,5-triazin-2-yl)pyridin-2-amine (PQR626), a potent, orally available, and brain-penetrant mTOR inhibitor for the treatment of neurological disorders, *J. Med. Chem.* **63**, 13595-13617 (2020). doi: 10.1021/acs.jmedchem.0c00620

M. Durrer, M. Mevissen, M. Holinger, **M. Hamburger**, S. Graf-Schiller, P. Mayer, **O. Potterat**, R. Bruckmaier, M. Walkenhorst, Effects of a multicomponent herbal extract on the development of subclinical ketosis in dairy cows - a blinded placebo-controlled field-study, *Planta Med.* **86**, 1375-1388, (2020). doi: 10.1055/a-1260-3148

S. Soroury, M. Alilou, T. Gelbrich, M. Tabefam, **O. Danton**, S.N. Ebrahimi, M. Kaiser, **M. Hamburger**, H. Stuppner, M.M. Farimani, Unusual derivatives from *Hypericum scabrum*, *Sci. Rep.* **10**, 22181 (2020). doi: 10.1038/s41598-020-79305-y

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

## 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. Ivenmeyer, 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<sub>A</sub> receptor modulators from *Murraya exotica*. *Nat. Prod. Comm.* **14**, 41-45 (2019).

M.B. Kahnmoeei, 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.* 1-4, (2019). doi: 10.1177/1934578X19848852

S. Santos, C. Haslinger, K. Klaic, **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* **73**, 206 (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.* **82**, 958-969 (2019). doi: 10.1021/acs.jnatprod.8b01031

S. K. Kordkolaei, M. R. Kanani, M. Tabefam, N. N. Sarvestani, **M. Hamburger**, M.M. Farimani, Terpenoids and phenolics of *Micromeria persica*. *Nat. Prod. Res.* 1-6 (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 GABAA receptor modulators of natural origin - Validation of a FLIPR assay for screening and HPLC-based activity profiling. *Planta Med.*, **85**, 925-933 (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.* **82**, 1424-1433 (2019). doi: 10.1021/acs.jnatprod.8b00791

**S. Santos**, C. Haslinger, M. Mennet, U. von Mandach, **M. Hamburger**, A.P. Simões-Wüst, *Bryophyllum pinnatum* enhances the inhibitory effect of atosiban and nifedipine on human myometrial contractility: an *in vitro* study. *BMC Complem. Altern. Med.* **19**, 292 (2019). doi: 10.1186/s12906-019-2711-5

## 2018

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**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

H.E. Meyer zu Schwabedissen, C. Ferreira, A.M. Schäfer, **M. Oufir**, I. Seibert, **M. Hamburger**, R.G. Tirona, Thyroid hormones are transport substrates and transcriptional regulators of Organic Anion Transporting Peptide 2B1. *Mol. Pharmacol.* **94**, 700-712 (2018). doi: 10.1124/mol.117.111161

**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>

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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

**O. Danton**, L. Alexander, C. Hunlun, D. de Beer, **M. Hamburger**, E. Joubert, Bitter taste impact and thermal conversion of a naringenin glycoside isolated from *Cyclopia genistoides*. *J. Nat. Prod.* **81**, 2743-2749 (2018). doi: 10.1021/acs.jnatprod.8b00710

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M. Mayer, M. Zbinden, M. Amorena, C. Vogl, **M. Hamburger**, M. Walkenhorst, P. *J. Ethnobiol. Ethnomed.* **13**, 1 (2017). doi:10.1186/s13002-016-0106-y

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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.

**M. De Mieri**, **G. Monteleone**, **I. Ismajili**, M. Kaiser, **M. Hamburger**, Antiprotozoal activity-based profiling of a dichloromethane extract from *Anthemis nobilis* flowers. *J. Nat Prod.* **80**, 459–470 (2017). doi:10.1021/acs.jnatprod.6b00980

P. Salehi, S. Mofidi-Tabatabaei; M. Moridi Farimani; M. Neuburger; **M. De Mieri**; **M. Hamburger**; S.N. Ebrahimi, A nor-diterpene from *Salvia sahendica* leaves. *Nat. Prod Res.* **31**, 1-8 (2017). doi: 10.1080/14786419.2017.1290619

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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 delivery: formulation, characterization and in vitro permeability using hCMEC/D3 cell line. *Eur. J. Pharm. Biopharm.* **119**, 253-263 (2017). doi:10.1016/j.ejpb.2017.06.018

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**J. Ramseyer**, B. Thuerig, **M. De Mieri**, H.-J. Schärer, T. Oberhänsli, M.P. Gupta, L. Tamm, **M. Hamburger**, **O. Potterat**, Eudesmanes sesquiterpenes from *Verbesina lanata* with inhibitory activity against grapevine downy mildew. *J. Nat. Prod.* (2017). doi:10.1021/acs.jnatprod.7b00868

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