

## List of Publications

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### 2019

- 214 Lechtenberg M, Hensel A (2019) Determination of glucosinolates in broccoli-based dietary supplements by cyclodextrin-mediated capillary zone electrophoresis. *Journal of Food Composition and Analysis*. 78, 138-149. doi.org/10.1016/j.jfca.2019.02.007
- 213 Scharf BR, Senker J, Dobrindt U, Hensel A (2019) Urine from Cranberry extract treated volunteers contains elevated Titers of Tamm-Horsfall protein with antiadhesive activity against uropathogenic *E. coli*. *Planta Medica*. 85, 126-138. doi: 10.1055/a-0755-7801
- 212 Esch S, Gottesmann M, Hensel A (2019)  $\gamma$ -Propoxy-sulfo-lichenan induces in vitro cell differentiation of human keratinocytes. *Molecules*. 24, 574-584. doi: 10.3390/molecules24030574.
- 211 Hensel A, Scharf B (2019) Cranberry-Extrakt moduliert die Freisetzung von antiadhäsivem Tamm-Horsfall Protein aus der Niere. *Zeitschrift für Phytotherapie*. 40, 1-5. doi.org/10.1055/a-0794-7407.

### 2018

- 210 Hensel A, Scharf B (2018) Cranberry-Extrakt moduliert das innate Immunsystem. *Pharmazeutische Zeitung – Originalia* 51, 3762-3765.
- 209 Grube K, Spiegler V, Hensel A (submitted) Antiadhesive phthalides from *Apium graveolens* fruits against uropathogenic *E. coli*.
- 208 Esch S, Jederk J, Hensel A, (2018) Mit Rotwurzelsalbei gegen Ichtiose (2018) *Deutsche Apothekerzeitung*. 158, 56-60.
- 207 Addotey JN, Lengers I, Jose J, Gampe N, Béni S, Peterleit F, Hensel A (2018) Isoflavonoids with inhibiting effects on human Hyaluronidase-1 and norneolignan clitorienolactone B from *Ononis spinosa* L. root extract. *Fitoterapia* 130, 169-174. doi.org/10.1016/j.fitote.2018.08.013
- 206 Zacharski DM, Esch S, König S, Mormann M, Brandt S, Ulrich-Merzenich G, Hensel A (2018)  $\beta$ -1,3/1,4-Glucan Lichenan from *Cetraria islandica* (L.) ACH. induces cellular differentiation of human keratinocytes. *Fitoterapia* 129, 226-236. doi.org/10.1016/j.fitote.2018.07.010
- 205 Esch S, König S, Mormann M, Bertan B, Jose J, Brandt S, Hensel A (2018) Cryptotanshinone from *Salvia miltiorrhiza* roots reduces cytokeratin CK1/10 expression in keratinocytes by activation of peptidyl-prolyl-cis-trans-isomerase FKBP1A. *Planta Medica* doi.org/10.1055/a-0660-0441.
- 204 Hensel A, Spiegler V (2018) Ein alternativer Weg zu neuen Wirkstoffen: Aktuelle ethnopharmakologische Forschung. *Deutsche Apothekerzeitung*. 2604, 52- 56.
- 203 Sendker J, Böker I, Lengers I, Brandt S, Jose J, Stark T, Hofmann T, Fink C, Abdel-Aziz H, Hensel A (2018) Eibischwurzelextrakt: Niedermolekulare Bestandteile reduzieren kurzkettenige Hyaluronsäure Moleküle. *Pharmazeutische Zeitung* 163, 43-47.
- 202a Sarshar S, Sendker J, Qin X, Goycoolea FM, Asadi Karam MR, Habibi M, Bouzari S, Dobrindt U, Hensel A (2018) Antiadhesive hydroalcoholic extract from *Apium graveolens* seeds prevents bladder and kidney infection against uropathogenic *E. coli*. *Fitoterapia* S0367-326X30036-4. doi:10.1016/j.fitote.2018.02.029
- 202b Short version on request: *Zeitschrift für Phytotherapie* (2018) 39, 57-62.
- 201 Tuncel K, Hensel A, Beikler T (2018) Plant-derived polyphenols-an emerging class of antimicrobial and immunomodulatory substances in the prevention and treatment of periodontal disease. *Fitoterapia* 132, 30-39. doi.org/10.1016/j.fitote.2018.11.012
- 200 Omwenga EO, Hensel A, Shitandi A, Goycoolea FM (2018) Chitosan nanoencapsulation of flavonoids enhances their quorum sensing and biofilm formation inhibitory activities against an E.coli Top 10 biosensor. *Colloids and Surfaces B: Biointerfaces*. 164, 125-133.
- 199 Nagar S, Hensel A, Mischnick P, Kumar V (2018) A unique polysaccharide containing 3-O-methylarabinose and 3-O-methylgalactose from *Tinospora sinensis*. *Carbohydrate Polymers*. 193, 326-335.
- 198 Agyare C, Spiegler V, Asase A, Hempel G, Hensel A (2018) An ethnopharmacological survey of medicinal plants used for cancer treatment in Ashanti region, Ghana. *Journal of Ethnopharmacology* 212, 137-152. doi.org/10.1016/j.jep.2017.10.019

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- 197 Hensel A (2017) Beeinflusst eine *Helicobacter pylori* Infektion die Parkinson-Therapie mit Levodopa? *Deutsche Apothekerzeitung*. 41, 3984-3987.
- 196 Hensel A [eds] (2017) *Phytotherapie 2017: Von der Innovation zur Evidenz*. *Zeitschrift für Phytotherapie*,

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- Suppl. 1, 38, S2-S54.
- 195 Boeker I, Sendker JD, Hensel A (submitted) Quantitation of glycine betaine in Marshmallow roots (*Althaea officinalis*) by use of a validated LC-MS method.
- 194 Hensel A, Zahn T (2017) Birkenrindenextrakt zur verbesserten Wundheilung: Episalvan® durch EMA zentral zugelassen. *Deutsche Apothekerzeitung* 157, 4582- 4585.
- 193 Spiegler V, Hensel A, Seggewiß J, Lubisch M, Liebau E (2017) Transcriptome analysis reveals molecular anthelmintic effects of procyanidins in *C. elegans*. *PLoS ONE* 12(9): e0184656. doi.org/10.1371/journal.pone.0184656
- 192 Omwenga EO, Hensel A, Pereira S, Shitandi AA, Goycoolea FM (2017) Antiquorum sensing, antibiofilm formation and cytotoxicity activity of commonly used medicinal plants by inhabitants of Borabu sub-county, Nyamira County, Kenya. *PLoS ONE* 12(11): e0185722. doi.org/10.1371/journal.pone.0185722
- 191 Hensel A, Lechtenberg M, Steinhoff B, 2017. Pyrrolizidinalakloide, *Deutsche Apothekerzeitung*, 31, 32-39.
- 190 Menchicchi B, Savvaidou E, Hensel A, Goycoolea FM (submitted) Low molecular weight dextran sulfate nanocapsules as inhibitors of *Helicobacter pylori* adhesion to gastric cells.
- 189 de Oliveira Caleare A, Hensel A, Mello JCP, Pinha AB, Panizzon GP, Lechtenberg M, Petereit F, Nakamura CV (2017) Flavan-3-ols and proanthocyanidins from *Limonium brasiliense* inhibit the adhesion of *Porphyromonas gingivalis* to epithelial host cells by interaction with gingipains. *Fitoterapia*. 118, 87-93.
- 189 Guillermo M, Villena J, Faller G, Hensel A, Font de Valdez G (2017) The exopolysaccharide-producing strain *Streptococcus thermophilus* CRL1190 reduces the inflammatory response caused by *Helicobacter pylori*. *Beneficial Microbes*. 8, 45-461. dx.doi.org/10.3920/BM2016.0186
- 188 Spiegler V, Liebau E, Hensel A (2017). Medicinal plants and plant-derived polyphenols with anthelmintic activity against intestinal nematodes. *Natural Product Reports*. 34, 627-643. doi: 10.1039/c6np00126b.
- 187 Beydokthi SS, Brandt S, Lechtenberg M, Sendker J, Dobrindt U, Qin X, Gycoolea FM, Hensel A (2017) Aqueous extract from *Orthosiphon stamineus* leaves with antiadhesive effects against uropathogenic *E. coli* prevents bladder and kidney infection in mice. *Phytomedicine*. 28, 1-9.
- 186 a/b Sendker J, Böker I, Lengers I, Brandt S, Jose J, Stark T, Hofmann T, Fink C, Abdel-Aziz H, Hensel A (2017) Phytochemical characterization of low molecular constituents from Marshmallow roots (*Althaea officinalis*) and inhibiting effects aqueous extract on human Hyaluronidase-1. *Journal of Natural Products*. 80, 290-297. doi: 10.1021/acs.jnatprod.6b00670
- Deutsche Fassung: *Pharmazeutische Zeitung* (2018) 821, 43-47
- 185 Selbach S, Peters U, Beckert S, Hensel A, Beikler (submitted) The effects of a proanthocyanidin-enriched extract from *Rumex acetosa* L. on *Porphyromonas gingivalis*: a randomized clinical trial.
- 184 Beydokthi SS, Sendker J, Brandt S, Hensel (2017) Traditionally used medicinal plants against uncomplicated urinary tract infections: A hexadecyl coumaric acid ester from the rhizoms of *Agropyron repens* (L.) P. Beauv. with antiadhesive activity against uropathogenic *E. coli*. *Fitoterapia*. 117, 22-267. http://dx.doi.org/10.1016/j.fitote.2016.12.010
- 2016**
- 183 Fuchs S, Bischoff I, Willer EA, Bräutigam J, Bubik MF, Erdelmeier CAJ, Koch E, Faleschini MT, De Mieri M, Bauhart M, Hensel A, Hamburger M, Potterat O, Fürst R (2016) The dual edema-preventing molecular mechanisms of the *Crataegus* extract WS® 1442 can be assigned to distinct phytochemical fractions. *Planta Medica*, doi: http://dx.doi.org/10.1055/s-0042-123388
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- 181 Engelhardt C, Petereit F, Lechtenberg M, Liefländer-Wulf U, Hensel A (2016) Qualitative and quantitative phytochemical characterization of *Myrothamnus flabellifolia* Welw. *Fitoterapia*. 114, 69-80.
- 180 Hensel A ed. (2016) Fortbildungsserie Forschung Phytotherapie. *Deutsche Apothekerzeitung*.
- a-d Hensel A. Melner N (2016) Cranberry-Früchte gegen Blasenentzündung (21:58-61); Safran gegen Depressionen (25:46-48), Orthosiphon (39: 54-56), Eibisch (43:52-54), Eupatorium – Durchwachsener Wasserhanf (51:4247).
- 180 Spiegler V, Liebau E, Peppler C, Raue K, Werne S, Strube C, Heckendorn F, Agyare C, Hensel A (2016) A hydroalcoholic extract from *Paullinia pinnata* L. roots exerts anthelmintic activity against free-living and

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- 179 Derksen A, Kühn J, Hafezi W, Sendker J, Ehrhardt C, Ludwig S, Hensel A (2016) Antiviral activity of hydroalcoholic extract from *Eupatorium perfoliatum* L. against the attachment of influenza A virus. *Journal of Ethnopharmacology* 188, 144-152. doi: 10.1016/j.jep.2016.05.016.
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- 178 Kisseih E, Agyare C, Lechtenberg M, Petereit F, Sendker J, Brandt S, Hensel A (2016) Von der Ethnopharmakologie zur rationale Phytotherapie: Phytochemische Charakterisierung und präklinische Untersuchungen zur potentiellen Wundheilungsaktivität von Extrakten aus *Combretum mucronatum* Schum.&Thonn. *Zeitschrift für Phytotherapie*. 37, 59-65.
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- 177 Boakye AD, Agyare C, Hensel A (2016) Anti-infective and time-kill kinetics of *Phyllanthus muellerianus* and its major constituent, Geraniin. *Medicinal Chemistry: Current Research* 6, 95-103. doi: 10.4172/2161-0444.1000332..
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- 175 Schmuch J, Beckert S, Brandt S, Löhr G, Beikler T, Hensel A (2016) Hydroalkoholischer Extrakt aus Sauerampferkraut (*Rumex acetosa* L.) zur Prophylaxe von Mundschleimhauterkrankungen und Periodontitis: Hemmung der bakteriellen Adhäsion und zentraler Virulenzfaktoren von *Porphyromonas gingivalis*. *Zeitschrift für Phytotherapie*. 37, 151-159.
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- 173 Agyare C, Boakye YD, Bekoe EO, Hensel A, Dapaah SO, Appiah T (2016) African medicinal plants with wound healing properties. *Journal of Ethnopharmacology*. 177, 85-100. doi: 10.1016/j.jep.2015.11.008.
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- 2015**
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- 172 Okoye FBC, Sendker J, Aly AH, Sawadog WR, Quandt B, Wray V, Hensel A, Diedrich M, Esimone CO, Proksch P, Debab A (2015) Olamannosides A-C from *Olox manni*: Structure elucidation and effect on the nuclear factor kappa B pathway. *Journal of Ethnopharmacology*. 176, 27-34. doi: 10.1016/j.jep.2015.10.019
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- 171 Omwenga EO, Hensel A, Shitandi A, Goycoolea FM (2015) Ethnobotanical survey of traditionally used medicinal plants for infections of skin, gastrointestinal tract, urinary tract and the oral cavity in Borabu sub-county, Nyamira county, Kenya. *Journal of Ethnopharmacology*. 176, 508-514. doi: dx.doi.org/101016/j.jep.2015.11.032.
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- 170 Thöle C, Brandt S, Ahmed N, Hensel A (2015) Acetylated rhamnogalacturonans from immature fruits of *Abelmoschus esculentus* inhibit the adhesion of *Helicobacter pylori* to human gastric cells by interaction with outer membrane proteins. *Molecules*. 20, 16770-16787. doi:10.3390/molecules200916770
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- 169 Spiegler V, Sendker J, Petereit F, Liebau E, Hensel A (2015) Bioassay guided fractionation of a leaf extract from *Combretum mucronatum* with anthelmintic activity: oligomeric procyanidins as the active principle. *Molecules*. 20, 14810-14832. doi: 10.3390/molecules200814810
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- 166 Rafsanjany N, Sendker J, Lechtenberg M, Petereit F, Hensel A (2015) Traditionally used medicinal plants against uncomplicated urinary tract infections: Are unusual, flavan-4-ol- and derhamnosylmaysin derivatives responsible for the antiadhesive activity of extracts obtained from stigmata of *Zea mays* L. against uropathogenic *E.coli* and Benzethonium chloride as frequent contaminant faking potential antibacterial activities? *Fitoterapia* 105, 246-253.
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- 165 Löhr G, Beikler T, Hensel A (2015) Inhibition of *in vitro* adhesion and virulence of *Porphyromonas gingivalis* by aqueous extract and polysaccharides from *Rhododendron ferrugineum* L. A new way for prophylaxis of periodontitis? *Fitoterapia* 107, 105-113.
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- 164 Zacharski DM, Brandt S, Esch S, König S, Mormann M, Ulrich-Merzenich G, Hensel A (2015) Xyloglucan from *Tropaeolum majus* seeds induces cellular differentiation of human keratinocytes by inhibition of EGFR phosphorylation and decreased activity of transcription factor CREB. *Biomacromolecules*. 16, 2157-2167.
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doi: 10.1021/acs.biomac.5b00553

- 163 Hensel A (2015) Monographs “Liquiritiae radix, Süßholzwurzel p. 382-385”, “Nasturtii herba, Brunnenkressekraut p. 448-449”, “Saponariae rubrae radix, Rote Seifenwurzel p. 596-597”, “Veronicae herba, Ehrenpreiskraut p. 690-691”, “Uzae radix, Uzarawurzel p. 677-678”; in: Wichtl - Teedrogen und Phytopharmaka, eds. Blaschek W, 6. Ed. Wissenschaftliche Verlagsgesellschaft, Stuttgart, Germany. ISBN 978-3-8047-30678-7.
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- 160 Georgi G, Euler M, Mank M, Hensel A, Niehues M, Klapperich M, Stahl B, (2015) Pea protein peptides with anti *Helicobacter pylori* activity. United States Application Number 14/593,822, File date 03.03.2015.
- 159 Kisseih E, Lechtenberg M, Petereit F, Sendker J, Zacharski D, Brandt S, Agyare C, Hensel A (2015) Phytochemical characterization and in vitro wound healing activity of leaf extracts from *Combretum mucronatum* Schum. & Thonn. Oligomeric procyanidins as strong inducers of cellular differentiation. *Journal of Ethnopharmacology*. 174, 628-636.
- 158 Menchicchi B, Hensel A, Goycoolea FM (2015) Polysaccharides as bacterial antiadhesive agents and “smart” constituents for improved drug delivery: Alternative strategies to *Helicobacter pylori* infection. *Current Pharmaceutical Design, Special issue: Exploring the Role of Polysaccharides in Drug Delivery*. 21(33), 4888-906.
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- 156 Schmuch J, Beckert S, Brandt S, Löhr G, Hermann F, Schmidt TJ, Beikler T. Hensel A (2015) Extract from *Rumex acetosa* L. for prophylaxis of periodontitis: Inhibition of bacterial *in vitro* adhesion and of Gingipains of *Porphyromonas gingivalis* by epicatechin-3-O-gallate-(4β-8)-epicatechin-3-O-gallate (procyanidin-B2-di-gallate). *Plosone* 10(3):e0120130. *doi: 10.1371/journal.pone.0120130.*
- 155 Menchicchi B, Fuenzalida JP, Hensel A, Swamy M, Rochas C, David L, Goycoolea F (2015) Biophysical analysis of molecular interaction between polysaccharides and mucin. *Biomacromolecules*. 16, 924-935. *doi: 10.1021/bm501832y*
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- 2014**
- 152 Agyare C, Spiegler V, Sarkodie H, Asase A, Liebau E, Hensel A (2014) An ethnopharmacological survey and *in vitro* confirmation of the ethnopharmacological use of medicinal plants as anthelmintic remedies in the Ashanti region, in the central part of Ghana. *Journal of Ethnopharmacology* 158, 255-263.
- 151 Bueno FG, Panizzon GP, Mello EVSL, Lechtenberg M, Petereit F, Mello JCP, Hensel A (2014) Hydrolysable tannins from hydroalcoholic extract from *Poincianella pluviosa* stem bark and its wound-healing properties: phytochemical investigations and influence on *in vitro* cell physiology of human keratinocytes and dermal fibroblasts. *Fitoterapia* 99, 252-260.
- 150 Lautenschläger M, Sendker JD, Galla HJ, Brandt S, Hensel A (2014) Intestinal formation of *trans*-crocetin from saffron extract (*Crocus sativus* L.) and *in vitro* permeation through intestinal and blood brain barrier. *Phytomedicine* 22, 36-44.
- 149 Derksen A, Hensel A, Hafezi W, Herrmann F, Schmidt TJ, Ehrhardt C, Ludwig S, Kühn JE (2014) 3-O-galloylated procyanidins from *Rumex acetosa* L. inhibit the attachment of influenza A virus. *PLoS One*. Oct



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