

Publications

Thomas Efferth

Hirsch factor: 60 (Google Scholar)

Number of total citations: 15,000

1. Original contributions

2015

366. Kuete V, Sandjo LP, Mbaveng AT, Zeino M, **Efferth T**. Cytotoxicity of compounds from *Xylopiya aethiopica* towards multi-factorial drug-resistant cancer cells. **Phytomedicine** 2015;22:1247-1254.
365. Michaelsen FW, Saeed ME, Schwarzkopf J, **Efferth T**. Activity of *Artemisia annua* and artemisinin derivatives, in prostate carcinoma. **Phytomedicine** 2015;22:1223-1231.
364. Abdel-Aziz H, Schneider M, Neuhuber W, Kassem AM, Khailah S, Müller J, Gamaleldeen H, Khairy A, Khayyal MT, Shcherbakova A, **Efferth T**, Ulrich-Merzenich G. GPR84 and TREM-1 signaling contribute to the pathogenesis of reflux esophagitis. **Molecular Medicine** 2015 [Epub ahead of print]
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362. Saeed M, Jacob S, Sandjo LP, Sugimoto Y, Khalid HE, Opatz T, Thines E, **Efferth T**. Cytotoxicity of the sesquiterpene lactones neoambrosin and damsine from *Ambrosia maritima* against multidrug-resistant cancer cells. **Frontiers in Pharmacology** 2015;6:267.
361. Wu CF, Klauck SM, **Efferth T**. Anticancer activity of cryptotanshinone on acute lymphoblastic leukemia cells. **Archives of Toxicology** 2015 [Epub ahead of print]
360. Kuete V, Mbaveng AT, Zeino M, Fozing CD, Ngameni B, Kapche GD, Ngadjui BT, **Efferth T**. Cytotoxicity of three naturally occurring flavonoid derived compounds (artocarpesin, cycloartocarpesin and isobavachalcone) towards multi-factorial drug-resistant cancer cells. **Phytomedicine** 2015;22:1096-1102.
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357. Wang X-Q, Wei W, Zhao C-J, Li C-Y, Luo M, Wang W, Zu Y-G, **Efferth T**, Fu Y-F. Negative-pressure cavitation coupled with aqueous two-phase extraction and enrichment of flavonoids and stilbenes from the pigeon pea leaves and the evaluation of antioxidant activities. [Separation and Purification Technology](#) 2015;156:116-123.
356. Zhao Q, Assimopoulou AN, Klauck SM, Damianakos H, Chinou I, Kretschmer N, Rios JL, Papageorgiou VP, Bauer R, **Efferth T**. Inhibition of c-MYC with involvement of ERK/JNK/MAPK and AKT pathways as a novel mechanism for shikonin and its derivatives in killing leukemia cells. **Oncotarget** 2015;6:38934-38951.
355. Ooko E, Saeed ME, Kadioglu O, Sarvi S, Colak M, Elmasaoudi K, Janah R, Greten HJ, **Efferth T**. Artemisinin derivatives induce iron-dependent cell death (ferroptosis) in tumor cells. **Phytomedicine** 2015;22:1045-1054.
354. Schuck F, Schmitt U, Reinhardt S, Freese C, Lee IS, Thines E, **Efferth T**, Endres K. Extract of *Caragana sinica* as a potential therapeutic option for increasing alpha-secretase gene expression. **Phytomedicine** 2015;22(11):1027-1036.
353. Panossian A, Seo EJ, Wikman G, **Efferth T**. Synergy assessment of fixed combinations of Herba Andrographidis and Radix Eleutherococci extracts by transcriptome-wide microarray profiling. **Phytomedicine** 2015;22:981-992.
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350. Kuete V, Sandjo LP, Mbaveng AT, Seukep JA, Ngadjui BT, **Efferth T**. Cytotoxicity of selected Cameroonian medicinal plants and *Nauclea pobeguini* towards multi-factorial drug-resistant cancer cells. **BMC Complementary and Alternative Medicine** 2015;15:309.
349. Kuete V, Fouotsa H, Mbaveng AT, Wiench B, Nkengfack AE, **Efferth T**. Cytotoxicity of a naturally occurring furoquinoline alkaloid and four acridone alkaloids towards multi-factorial drug-resistant cancer cells. **Phytomedicine** 2015;22:946-951.
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342. Wu CF, **Efferth T**. Miltirone Induces G2/M cell cycle arrest and apoptosis in CCRF-CEM acute lymphoblastic leukemia cells. **Journal of Natural Products** 2015;78:1339-1347.
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2. Reviews and editorials

2015

125. Volm M, **Efferth T**. Prediction of cancer drug resistance and implications for personalized medicine. **Frontiers in Oncology** 2015;5:282.
124. **Efferth T**. Artemisinin – second career as cancer drug? **World Journal of Traditional Chinese Medicine** 2015;1(2):2-25.
123. Fulda S, **Efferth T**. Selected secondary plant metabolites for cancer therapy. **World Journal of Traditional Chinese Medicine** 2015;1(1):1-5.
122. Bhakta-Guha D, **Efferth T**. Hormesis: Decoding two sides of the same coin. **Pharmaceuticals (Basel)** 2015;8:865-883.
121. **Efferth T**, Zacchino S, Georgiev MI, Liu L, Wagner H, Panossian A. Nobel Prize for artemisinin brings phytotherapy into the spotlight. **Phytomedicine** 2015;22:A1-3.
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116. Kadioglu O, Malczyk AH, Greten HJ, **Efferth T**. Aptamers as a novel tool for diagnostics and therapy. **Investigative New Drugs** 2015;33:513-520.
115. Bhakta-Guha D, Saeed ME, Greten HJ, **Efferth T**. Dis-organizing centrosomal clusters: specific cancer therapy for a generic spread? **Current Medical Chemistry** 2015;22:685-694.

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111. Hong C, Cao J, **Efferth T**. Posttraumatic stress disorder among earthquake survivors of the Wenchuan area (Sichuan, China). **European Journal of Psychotraumatology** 2014;5:26531.
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107. Kadioglu O, **Efferth T**. Contributions from emerging transcriptomics technologies and computational strategies for drug discovery. **Investigative New Drugs** 2014;32:1316-1319.

3. Books and book chapters

- 31 Seo EJ, Wu CF, Greten HJ, Efferth T. Epidermal growth factor receptors and downstream signaling pathways as cancer treatment targets for medicinal plants. In: Heinrich M and Jäger AK (eds.) *Ethnopharmacology*. Wiley-Blackwell, Chichester, 2015, pp.169-177.
30. Efferth T. (ed.) Resistance to targeted ABC transporters in cancer. Resistance to Targeted anti-cancer therapeutics 4. Springer, Switzerland, 2015
29. Kuete V and **Efferth T** (eds.) *Biodiversity, natural products and cancer treatment*. World Scientific, Singapore, 2014. 392 pages.
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26. **Efferth T**. Individualized tumor therapy; biomarkers and possibilities for targeted therapy with natural products. In: Folkerts G, Garssen J (Eds.) *Pharma-Nutrition*. Springer, Cham, New York, Heidelberg, Dordrecht, London, 2014, pp. 275-294.

4. Oral presentations and lectures

2015

193. **Efferth T**. Natural products as EGFR inhibitors for cancer therapy. Annual Meeting of the World Federation of Chinese Medicine Societies. Macau, China, December 4-5, 2015.
192. Saeed MEM, **Efferth T**. Cytotoxicity of 35 medicinal plants from Sudan towards sensitive and multidrug-resistant cancer cells. 2. Deutsch-Arabischer Krebskongress in Berlin, 29.-30. Oktober 2015
191. **Efferth T**. Artesunate – An anti-malaria natural product derivative for cancer therapy. The 8th Shanghai International Conference on Traditional Chinese Medicine and Natural Medicine. Shanghai, China, October 21-24, 2015
190. **Efferth T**. Artesunate – A herbal natural product derivative for cancer therapy. 8th European Congress for Integrative Medicine. 2015 Global summit, Greater Copenhagen, Helsingor, Denmark, September 26-27, 2015.
189. Hong CF, **Efferth T**. Transdisciplinary Cooperation Between Life Sciences and Humanities: Therapeutic Intervention of Posttraumatic Stress Disorder with Traditional Chinese Medicine. 12th World Congress of Chinese Medicine. Barcelona, Spain, September 24-26, 2015
188. **Efferth T**. Quality, Safety and application of herbal TCM products. University of Porto, Porto, Portugal, July 17th, 2015.
187. **Efferth T**. Medicinal plants of the German and European pharmacopoeias (Parts 1 and 2). University of Porto, Porto, Portugal, July 17th, 2015.
186. Kadioglu O, **Efferth T**. Synthetic cajanin stilbene acid derivatives inhibit c-myc in breast cancer cells. 11th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, June 9-12, 2015.
185. Saeed MEM, **Efferth T**. Activity of the dietary flavonoid, apigenin, against multidrug-resistant tumor cells as determined by pharmacogenomics and molecular docking. 11th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, June 9-12, 2015.
184. **Efferth T**. Quality, safety and application of herbal TCM products. Munic Forum on TCM. München, 01.-02.06.2015.
183. **Efferth T**. Anti-tumor activity of artesunate. Munic Forum on TCM. München, 01.-02.06.2015.
182. **Efferth T**. Perspectives for globalized natural medicines. 15th International Congress of the International Society for Ethnopharmacology. Petra, Jordan, May 5-8, 2014.
181. **Efferth T**. First Nations healing: from traditional medicine to experimental pharmacology. German Association for American Studies Annual Meeting, Bonn, May 28-31, 2015
180. **Efferth T**. The anticancer activity of shikonin and its derivatives from *Lithospermum erythrorhizon*. Zhejiang University of Science and Technology, Hangzhou, China, April 16th 2015
179. **Efferth T**. The anticancer activity of shikonin and its derivatives from *Lithospermum erythrorhizon*. Macau University of Science and Technology, Macao, China, April 13rd, 2015.
178. **Efferth T**. *Qinghaosu* - From ancient Chinese tea to modern cancer drug candidate. Zhejiang Chinese Medical University, Hangzhou, China, April 3rd, 2015.

177. **Efferth T.** Molecular biology and clinical trials of artemisinin derivatives for cancer therapy. National Yang-Ming University, School of Medicine, Institute of traditional Medicine, Taipei, Taiwan, March 23, 2015.

176. **Efferth T.** Natural products to combat multidrug resistance of cancer. National Research Institute of Chinese Medicine. Ministry of Health and welfare. Taipei, Taiwan, March 23, 2015-

175. **Efferth T.** Artesunate für die Tumorthapie. Societas Medicinæ Sinensis. Internationale Gesellschaft für Chinesische Medizin e.V. München, 28.02.2015.

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174. Kadioglu O, Hamm R, **Efferth T.** Microarray and gene expression profiling methodology for active constituents in ADAPT-232. ADAPT Conference, Grand Hotel Stockholm, Sweden, November 20, 2014.

173. **Efferth T.** Artesunate – promising cancer drug for developing countries? Charite, Berlin, 17.12.2014

172. **Efferth T.** Overcoming of P-glycoprotein-mediated multidrug resistance. Inaugural Conference of the Speciality Committee on Immunology of Traditional Chinese Medicine, Guangzhou, China, November 21-23, 2014.

171. **Efferth T.** Heilpflanzen aus Afrika gegen resistente Krebszellen. Mamazone. Projekt Diplompatientin, Augsburg, 30.10.-02.11.2014.

170. **Efferth T.** Clinical relevance of P-glycoprotein and possibilities to overcome multidrug resistance. Department of Life Sciences and Biotechnology, University of Ferrara, Italy, October 27th 2014.

169. **Efferth T.** Inhibition of P-glycoprotein in cancer cells by synthetic and natural compounds. 9th International Conference of Anticancer Research, Porto Carras, Sithonia, Greece, October 6-10, 2014

168. **Efferth T.** Multifactorial activity of the naphthoquinone shikonin against cancer cells. Annual Meeting of the German Pharmaceutical Society (DPhG), Frankfurt a.M., 23.-26.09.2014.

167. **Efferth T.** Overcoming P-glycoprotein mediated multidrug resistance of tumors in vivo. MipTex, Congress center Basel, Switzerland, September 23-25, 2014.

166. **Efferth T.** Molecular modes of action of shikonin in cancer Cells. Universität Freiburg, 25.06.2014

165. **Efferth T.** From Life Science to Life Writing in Pharmacy. Graduiertenkolleg "Life science-Life Writing, Universität Mainz, 13.06.2014.

164. **Efferth T.** Medizinalweine – damals und heute. Ringvorlesung im Studium generale "Wein und Rebe", Johannes Gutenberg-Universität, Mainz. 04.06.2014.

Efferth T. Inhibition of P-glycoprotein in cancer cells by synthetic and natural compounds. 16. Bad Herrenalber Transporter- und Barrieretage, Bad Herrenalb, 26.-28.05.2014

163. **Efferth T.** Artemisinin – eine neue hoffnungsvolle Krebstherapie. Patienten-Arzt-Infotag, Frauenselbsthilfe nach Krebs, Landesverband Rheinland-Pfalz/Saarland e.v., Mainz, 17.05.2014

162. **Efferth T.** Natural Products to treat cancer in Africa. INSPiRE Workshop: Cell cycle and natural products. Athens, Greece, May 8-9, 2014.

161. **Efferth T.** Anticancer activity of 1,2,4-trioxanes of the Chinese medicinal herb *Artemisa annua*. Universität Hamburg, 06.05.2014

160. **Efferth T.** Pharmacogenomics of ADAPT-232 in neuroglial cells. Ten Years Jubilee of Swedish Herbal Institute's scientific Activities in Biomedicine. Stockholm, Sweden, March 19-22, 2014.

159. **Efferth T.** Anticancer Activity of artesunate. Max Planck-Institut für Kolloide und Grenzflächen, Berlin, 24.01.2014.

158. **Efferth T.** Antitumorale Effekte von Artesunate. 3. AG Sitzung „Komplementärmedizin in der Onkologie“, Klinikum rechts der Isar, München, 15. 01.2014.

5. Poster presentations

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158. Hong CF, **Efferth T.** A meta-analysis on microarray-based transcriptome-wide mRNA expression profiling of patients with posttraumatic stress syndrome suggesting an important role of NFκB. 15th International Forum on Mood and Anxiety disorders (IFMAD), Prague, December 2-4, 2015

157. Seo EJ, **Efferth T.** Activity of the dietary flavonoid, apigenin, against multidrug-resistant tumor cells as determined by pharmacogenomics and molecular docking. Korea,

156. Naß J, Kersten C, Brenk R, **Efferth T.** Modeling of PTSD-relevant DRD2 Polymorphisms. 14th Conference of the European Society for Traumatic Stress Studies (ESTSS), Vilnius, June 10-13, 2015

155. Nakagawa H, Satake K, Tsukamoto M, Toyoda Y, Kadioglu O, Regasinie LO, da Silva Bolzani V, 154. Ishikawa T, Fricker G, Efferth T. Predicted crucial amino acid residues for substrate recognition by human ABCB1: in vitro analysis–based calculation using novel substrates for human ABCB1 from *Pterogyne nitens* and *Magnolia* sp. Gordon Research Conference, Multi-Drug Efflux Systems, Lucca, Italy, April 26 – May 1, 2015.
153. Schuck F, Schmitt U, Reinhardt S, Freese C, Lee IS, Thines E, **Efferth T**, Endres K. Korean medicinal plant extracts exhibit potential therapeutic value as alpha-secretase enhancers. 12th International Conference on Alzheimer's and Parkinson's Diseases (AD/PD), Nice, France, March 18-22, 2015.
152. Schneider MJ, Abdel-Aziz H, **Efferth T**. Anti-inflammatory effects of herbal preparation STW5-II in cytokine challenged normal human colon cells. 81st Annual Congress of the German Society for Pharmacology and Toxicology, University of Kiel, Kiel, March 10-12, 2015.
151. Hamm R, Chen YR, Seo EJ, Zeino M, Wu CF, Müller R, Yang NS, Efferth T. Induction of cholesterol biosynthesis by archazolid B in T24 bladder cancer cells. Naturstofftage Kloster Irsee, Irsee, 25.-27.02.2015

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150. Naß J, **Efferth T**. Molecular modeling of PTSD- related enzymes of the dopaminergic system carrying single nucleotide polymorphisms. International Society for Traumatic Stress Studies (ISTSS) Hangzhou Conference and the Annual Conference of Zhejiang Behavior Medicine Society. Hangzhou, China, October 17-19, 2014
149. Hong C, Cao CM, **Efferth T**. Posttraumatic stress disorder (PTSD) among earthquake survivors of the Wenchuan area (Sichuan, China). Post-Traumatic Stress: State of the Art Research and Clinical Implications for China. Conference organized by The Seventh Hospital of Hangzhou. International Society for Traumatic Stress Studies (ISTSS). Zhejiang Behavior Medicine Association, Hangzhou, China, October 17-19, 2014
- Abstract: Abstract volume
148. Hamm R, Chen YR, Seo EJ, Zeino M, Wu CF, Müller R, Yang NS, **Efferth T**. Induction of cholesterol biosynthesis by archazolid B in T24 bladder cancer cells. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.
147. Hamm R, Zeino M, Frewert S, **Efferth T**. Up-regulation of cholesterol associated genes as novel resistance mechanism in glioblastoma cells in response to archazolid B. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.
- Abstract: Abstract volume
146. Hamm R, Sugimoto Y, Steinmetz H, **Efferth T**. Resistance mechanisms of cancer cells to the novel vacuolar H⁺-ATPase inhibitor archazolid B. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.
- Abstract: Abstract volume
145. Kadioglu O, Kermani NS, Kelter G, Schumacher U, Fiebig HF, Greten HJ, **Efferth T**. Pharmacogenomics of cantharidin in tumor cells. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.
- Abstract: Abstract volume
144. Fu YF, Kadioglu O, Wiench B, Wie ZF, Wang W, Luo M, Kong Y, Gu CB, Zu YG, **Efferth T**. Anti-estrogenic natural compound against breast cancer. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.
- Abstract: Abstract volume
143. Kadioglu O, **Efferth T**. Synthetic derivative compounds inhibit c-MYC in breast cancer cells. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.
- Abstract: Abstract volume
142. Saeed M, Khalid H, Sugimoto Y, **Efferth T**. The lignan, (-)-sesamin reveals cytotoxicity toward cancer cells: Pharmacogenomic determination of genes associated with sensitivity or resistance. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.
- Abstract: Abstract volume
141. Saeed M, Kadioglu O, Khalid H, Sugimoto Y, **Efferth T**. Cytotoxicity of the dietary flavonoid, apigenin, as determined by pharmacogenomics and molecular docking. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.
140. Saeed M, Kuete V, Kadioglu O, Börtzler J, Khalid H, Greten HJ, **Efferth T**. Cytotoxicity of the lignan honokiol against multiple drug-resistant tumor cells. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.
- Abstract: Abstract volume

139. Tacchini M, Spagnoletti A, Brognara E, Gambari R, Conforti F, Marrelli M, Guerrini A, **Efferth T**, Sacchetti G. In vitro evaluation of anti-proliferative and geno-protective activity of Hemidesmus indicus crude drug extracts. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.

Abstract: Abstract volume

138. Wu CF, **Efferth T**. Miltirone induced apoptosis in acute lymphoblastic leukemia cells via ROS production and mitochondrial dysfunction. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.

Abstract: Abstract volume

137. Zeino M, Paulsen MS, Zehl M, Urban E, Kopp B, **Efferth T**. Inhibition of P-glycoprotein by Naturally Occurring Cardiotonic Steroid derivatives. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.

Abstract: Abstract volume

136. Zeino M, Saeed MEM, Kadioglu O, **Efferth T**. The ability of molecular docking to unravel the controversy and challenges related to P-glycoprotein – a well-known, yet poorly understood drug transporter. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.

Abstract: Abstract volume

135. Zhao Q, Bauer R, **Efferth T**. Shikonin and its derivatives inhibit phosphorylation of the epidermal growth factor receptor and synergistically kill glioblastoma cells in combination with erlotinib. 128. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte. Mainz, 12.-15.09.2015.

Abstract: Abstract volume

134. Abdel-Aziz H, Schneider MJ, Khayyal MT, Vinson BR, **Efferth T**, Ulrich-Merzenich-G. Receptor modulation and MAP-kinase signaling induced by STW5 and by the proton-pump inhibitor omeprazol in a rat model for gastroesophageal reflux disease and in HET1A cells.

133. Georgakopoulos A; Seo EJ; Kostakis IK; **Efferth T**. Design, synthesis and biological evaluation of some novel xanthone and acridone carboxamides with point antiproliferative activity. XXIII International Symposium on Medicinal Chemistry, September 7-11, 2014 Lisboa, Portugal

132. Kadioğlu O, **Efferth T**. Anti-estrogenic compound with activity towards breast cancer. BAU-Drug Design Congress 2014. Bahcesehir University, School of Medicine, Istanbul. April 17-19, 2014

131. **Efferth T**. Identification of mitochondrial and PI3K-Akt-mTOR pathways as targets of naphthoquinones in cancer cells by pharmacogenomics. 31. Deutscher Krebskongress, Berlin, 19.-22. Februar 2014.

Abstract: Abstract volume