

Curriculum Vitae

PharmDr. Michal Kořinek, Ph.D.

Assistant Professor, Graduate Institute of Natural Products (GINP),
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CONTACT INFORMATION

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ORCID

PERSONAL INFORMATION

Date and place of birth: 23.12.1983, Jablonec nad Nisou (Czech Republic)

Nationality: Czech

Gender: male

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EDUCATION

<i>Institution & Location</i>	<i>Field of Study</i>	<i>Degree</i>	<i>Year Conferred</i>
Charles University in Prague, Czechia	Pharmacy	M.S. (Mgr.)	2003/09 - 2008/06
University of Eastern Finland, Finland & Charles University, Czechia	Medicinal Chemistry	Pharm.Dr. (Czechia)	2009/03 - 2009/09
Kaohsiung Medical University, Taiwan	Pharmacognosy	Ph.D.	2009/10 - 2017/06

EMPLOYMENT

2021/08 - now	Assistant Professor, Graduate Institute of Natural Products (GINP), College of Pharmacy, Kaohsiung Medical University (KMU), Taiwan
2020/09 – 2021/07	Postdoctoral researcher, National Cheng Gung University, Taiwan European Union Innovation Cooperation Platform
2018/04 – 2020/07	Postdoctoral researcher, Graduate Institute of Natural Products, Chang Gung University, Taiwan
2017/09 - 2018/03	Postdoctoral researcher, Research Center for Natural Products & Drug Development, Kaohsiung Medical University, Taiwan
2008/09 – 2009/08	Pharmacist, BENU pharmacy. Jablonec nad Nisou, Czechia

ACADEMIC SERVICE ACTIVITIES AND AWARDS

ERASMUS scholarship award, Finland, 2007
Thesis excellence competition award, Faculty of Pharmacy, Charles University, 2008
Taiwan scholarship, 2010-2013
NSYSU-KMU poster competition award, 2016
International conferences in natural products including, GA
Global Pharmacy course, 2010-2019
First Certificate in English, level B2, Cambridge, UK
TOCFL Certificate level, A2, Taiwan
Review Editor, *Frontiers in Pharmacology*, since 2020
Member of The Society of Chinese Natural Medicine, since 2020

RESEARCH INTERESTS

Natural product chemistry, traditional and folk medicines, anti-allergic inflammation, bioinformatics tools, new drug development

PUBLICATIONS AND APPLICATION

Publications (SCI): 26

H-index: 10

Posters: 10 as first author (international conferences) and 16 as co-author

Journal reviewer: 1. *Frontiers in Pharmacology*, 2. *Plos One*, 3. *Journal of Herbal Medicine*, 4. *South African Journal of Botany*, 5. *Scientific Reports*, 6. *Trends in Food Science and Technology*, 7. *Journal of the Formosan Medical Association (JFMA)*, 8. *Biomedical Journal*, 9. *BAOJ Surgery*

Academic publications

1. **Michal Korinek**[†], Vitthal D. Wagh[†], I-Wen Lo, Yu-Ming Hsu, Hsue-Yin Hsu, Tsong-Long Hwang, Yang-Chang Wu, Yuan-Bin Cheng, Bing-Hung Chen*, Fang-Rong Chang*. Antiallergic phorbol ester from the seeds of *Aquilaria malaccensis*. *International Journal of*

Molecular Sciences, 2016, 17(3), 398. doi:10.3390/ijms17030398 (IF 3.257, CHEMISTRY, MULTIDISCIPLINARY 52/163=31.9%).

=> **patent application (US 10,335,445 B2) and project MOST 106-2320-B-037-008-MY2**

2. **Michal Korinek**, Kuan-Ming Chen, Yu-Han Jiang, Mohamed El-Shazly, Joel Stocker, Chon-Kit Chou, Tsong-Long Hwang, Yang-Chang Wu, Bing-Hung Chen*, Fang-Rong Chang*. Anti-allergic potential of *Typhonium blumei*: inhibition of degranulation via suppression of PI3K/PLC γ 2 phosphorylation and calcium influx. *Phytomedicine*, 2016, 23 (14), 1706-1715. <http://doi.org/10.1016/j.phymed.2016.10.011> (IF 2.937, INTEGRATIVE & COMPLEMENTARY MEDICINE 4/24=16.7%).
3. Vitthal D. Wagh[†], **Michal Korinek**[†], I-Wen Lo, Yu-Ming Hsu, Shu-Li Chen, Hsue-Yin Hsu, Tsong-Long Hwang, Yang-Chang Wu, Bing-Hung Chen*, Yuan-Bin Cheng*, Fang-Rong Chang*. Inflammation modulatory phorbol esters from the seeds of *Aquilaria malaccensis*. *Journal of Natural Products*, 2017, 80 (5), 1421-1427. doi: 10.1021/acs.jnatprod.6b01096 (IF 3.281, PLANT SCIENCES 33/212=15.5%).
4. **Michal Korinek**, Yi-Hong Tsai, Mohamed El-Shazly, Kuei-Hung Lai, Anders Backlund, Shou-Fang Wu, Wan-Chun Lai, Tung-Ying Wu, Shu-Li Chen, Yang-Chang Wu, Yuan-Bin Cheng, Tsong-Long Hwang*, Bing-Hung Chen*, Fang-Rong Chang*. Anti-allergic hydroxy fatty acids from *Typhonium blumei* explored through ChemGPS-NP. *Frontiers in Pharmacology*, 2017, 8, 356. doi:10.3389/fphar.2017.00356 (IF 4.400, PHARMACOLOGY & PHARMACY 33/257=12.8%).
5. Iriny M. Ayoub[†], **Michal Korinek**[†], Tsong-Long Hwang, Bing-Hung Chen, Fang-Rong Chang, Mohamed El-Shazly*, Abdel Nasser B. Singab*. Probing the antiallergic and anti-inflammatory activity of biflavonoids and dihydroflavonols from *Dietes bicolor*. *Journal of Natural Products*, 2018, 81 (2), 243-253. doi: 10.1021/acs.jnatprod.7b00476 (IF 3.885, PLANT SCIENCES 21/223=9.4%).
6. Eman Al-Sayed[†], **Michal Korinek**[†], Ahmed Esmat, Guan-Yu Chen, Yuan-Bin Cheng, Pei-Wen Hsieh, Bing-Hung Chen, Tsong-Long Hwang*. Anti-inflammatory, hepatoprotective and antioxidant activity of ellagitannin isolated from *Melaleuca styphelioides*. *Phytochemistry*, 2020, 177, 112429. doi: 10.1016/j.phytochem.2020.112429 (IF 3.044, PLANT SCIENCES 47/234=20.1%).
7. Olha Mykhailenko[†], **Michal Korinek**[†], Liudas Ivanauskas, Ivan Bezruk, Artem Myhal, Vilma Petrikaitė, Mohamed El-Shazly, Guan-Hua Lin, Chia-Yi Lin, Chia-Hung Yen, Bing-Hung Chen, Victoriya Georgiyants*, Tsong-Long Hwang*. Qualitative and quantitative analysis of Ukrainian Iris species: a fresh look on their antioxidant content and biological activities. *Molecules* 2020, 25, 4588, doi:10.3390/molecules25194588 (IF 3.267, CHEMISTRY, MULTIDISCIPLINARY 70/177=39.5%).
8. Chih-Chao Chiang[†], **Michal Korinek**[†], Wei-Jen Cheng[†], Tsong-Long Hwang*. Targeting Neutrophils to Treat Acute Respiratory Distress Syndrome in Coronavirus Disease. *Frontiers in Pharmacology*. 2020, 11, 572009. doi: 10.3389/fphar.2020.572009 (Review) (IF 4.225, PHARMACOLOGY & PHARMACY 52/271=19.2%).

9. Olha Mykhailenko[†], Vilma Petrikaitė[†], **Michal Korinek**^{*}, Mohamed El-Shazly, Chia-Hung Yen, Chung-Fan Hsieh, Ivan Bezruk, Asta Dabrišiūtė, Liudas Ivanauskas, Victoriya Georgiyants and Tsong-Long Hwang*. Bio-guided bioactive profiling and HPLC-DAD fingerprinting of Ukrainian saffron (*Crocus sativus* stigmas): moving from correlation toward causation. *BMC complementary medicine and therapies*, 2021, 21(1), 203. <https://doi.org/10.1186/s12906-021-03374-3> (IF 3.659, INTEGRATIVE & COMPLEMENTARY MEDICINE Q1 xx/xx=xx%)

10. **Michal Korinek**, Pei-Shan Hsieh, Yu-Li Chen, Pei-Wen Hsieh, Shih-Hsin Chang, Yi-Hsiu Wu, Tsong-Long Hwang*. Randialic acid B and tomentosolic acid block formyl peptide receptor 1 in human neutrophils and attenuate psoriasis-like inflammation in vivo, *Biochemical Pharmacology*, 2021, 190, 114596, <https://doi.org/10.1016/j.bcp.2021.114596> (IF 5.858, PHARMACOLOGY & PHARMACY 39/275=14.2%).

† equal contribution

* corresponding author

Note. all impact factors and ranking according to previous year of [JCR report](#)

Academic publications as a co-author

11. Wan-Chun Lai, Hui-Chun Wang, Guan-Yu Chen, Juan-Cheng Yang, **Michal Korinek**, Chia-Jung Hsieh, Hiroshi Nozaki, Ken-Ichiro Hayashi, Chih-Chung Wu, Yang-Chang Wu, Fang-Rong Chang*. Using the pER8:GUS reporter system to screen for phytoestrogens from *Caesalpinia sappan*. *Journal of Natural Products*, 2011, 74, 1698–1706. doi: 10.1021/np100920q (IF 2.872, PLANT SCIENCES 28/188=14.9%).
12. Balaji D. Barve, Yang-Chang Wu, Mohamed El-Shazly, Da-Wei Chuang, Yu-Ming Chung, Yi-Hong Tsai, Shou-Fang Wu, **Michal Korinek**, Ying-Chi Du, Chi-Ting Hsieh, Jeh-Jeng Wang*, Fang-Rong Chang*. Synthesis of carbamates by direct C–H bond activation of formamides. *European Journal of Organic Chemistry*, 2012, 34, 6760–6766. doi: 10.1002/ejoc.201201160 (IF 3.329, CHEMISTRY, ORGANIC 14/56=25.0%).
13. Balaji D. Barve, Yang-Chang Wu, Mohamed El-Shazly, **Michal Korinek**, Yuan-Bin Cheng, Jeh-Jeng Wang*, Fang-Rong Chang*. Iron-catalyzed oxidative direct α -C–H bond functionalization of cyclic ethers: selective C–O bond formation in the presence of a labile aldehyde group. *Organic Letters*, 2014, 16, 1912–1915. doi: 10.1021/ol5004115 (Abstracted by ChemInform, 45 (36), doi: 10.1002/chin.201436058) (IF 6.324, CHEMISTRY, ORGANIC 3/58=5.2%).
14. Mohamed El-Shazly, Balaji D. Barve, **Michal Korinek**, Jing-Ru Liou, Da-Wei Chuang, Yuan-Bin Cheng, Ming-Feng Hou, Jeh-Jeng Wang, Yang-Chang Wu*, Fang-Rong Chang*. Insights on the isolation, biological activity and synthetic protocols of enyne derivatives. *Current Topics in Medicinal Chemistry*, 2014, 14 (8), 1076–1093. doi: 10.2174/1568026614666140324143523 (Review) (IF 3.453, CHEMISTRY, MEDICINAL 11/58=19.0%).
15. Balaji D. Barve, Yang-Chang Wu, Mohamed El-Shazly, **Michal Korinek**, Yuan-Bin Cheng, Jeh-Jeng Wang*, Fang-Rong Chang*. Copper-catalyzed selective C–O bond formation by oxidative α -C(sp³)-H/O–H coupling between ethers and salicylaldehydes. *Tetrahedron*, 2015, 71 (15), 2290–2297. doi 10.1016/j.tet.2015.02.035 (Abstracted by ChemInform, 46 (29). doi: 10.1002/chin.201529103) (IF 2.641, CHEMISTRY, ORGANIC 18/58=31.0%).
16. Abdel Nasser B. Singab, Iriny M. Ayoub, Mohamed El-Shazly, **Michal Korinek**, Tung-Ying Wu, Yuan-Bin Cheng, Fang-Rong Chang*, Yang-Chang Wu*. Shedding the light on Iridaceae: ethnobotany, phytochemistry and biological activity. *Industrial Crops and Products*, 2016, 92, 308–335. <https://doi.org/10.1016/j.indcrop.2016.07.040> (Review) (IF 3.449, AGRONOMY 6/83=7.2%).
17. Chien-Kei Wei, Yi-Hong Tsai, **Michal Korinek**, Pei-Hsuan Hung, Mohamed El-Shazly, Yuan-Bin Cheng, Yang-Chang Wu, Tusty-Juan Hsieh*, Fang-Rong Chang*. 6-Paradol and 6-shogaol, the pungent compounds of ginger, promote glucose utilization in adipocytes and myotubes, and 6-paradol reduces blood glucose in high-fat diet-fed mice. *International Journal of Molecular Sciences*, 2017, 18 (1), 168. doi: 10.3390/ijms18010168 (IF 3.226, CHEMISTRY, MULTIDISCIPLINARY 54/166=32.5%)

18. Chon-Kit Chou, Yu-Ting Chang, **Michal Korinek**, Yei-Tsung Chen, Ya-Ting Yang, Steve Leu, I-Ling Lin, Chin-Ju Tang, Chien-Chih Chiu*. The regulations of deubiquitinase USP15 and its pathophysiological mechanisms in diseases. *International Journal of Molecular Sciences*, 2017, 18 (3), 483. doi: 10.3390/ijms18030483 (Review) (IF 3.226, CHEMISTRY, MULTIDISCIPLINARY 54/166=32.5%)
19. Amany A. Thabet, Fadia S. Youssef, **Michal Korinek**, Fang-Rong Chang, Yang-Chang Wu, Bing-Hung Chen, Mohamed El-Shazly*, Abdel Nasser B. Singab*, Tsong-Long Hwang*. Study of the anti-allergic and anti-inflammatory activity of *Brachychiton rupestris* and *Brachychiton discolor* leaves (Malvaceae) using in vitro models. *BMC Complementary and Alternative Medicine*, 2018, 18 (1), 299. doi: 10.1186/s12906-018-2359-6. (IF 2.109, INTEGRATIVE & COMPLEMENTARY MEDICINE 8/27=29.6%)
20. Chi-Ying Li, I-Wen Lo, Yen-Ping Hsueh, Yu-Ming Chung, Shih-Wei Wang, **Michal Korinek**, Yi-Hong Tsai, Yuan-Bin Cheng, Tsong-Long Hwang, Clay C. C. Wang, Fang-Rong Chang*, Yang-Chang Wu*. Epigenetic manipulation induces the production of coumarin-type secondary metabolite from *Arthrobotrys foliicola*. *Israel Journal of Chemistry*, 2019, 59, 432. doi:10.1002/ijch.201800162 (IF 2.220, CHEMISTRY, MULTIDISCIPLINARY 88/172=51.2%)
21. Chih-Chao Chiang, Wei-Jen Cheng, **Michal Korinek**, Cheng-Yu Lin, Tsong-Long Hwang*. Neutrophils in psoriasis. *Frontiers in Immunology*, 2019, 10, 2376, doi: 10.3389/fimmu.2019.02376. (Review) (IF 4.716, IMMUNOLOGY, 44/158=27.8%)
22. Eman Al-Sayed, Tzu-Yi Ke, Tsong-Long Hwang, Shu-Rong Chen, **Michal Korinek**, Shu-Li Chen, Yuan-Bin Cheng*. Cytotoxic and anti-inflammatory effects of lignans and diterpenes from *Cupressus macrocarpa*. *Bioorganic and Medicinal Chemistry Letters*, 2020, 30 (10), 127127. doi: 10.1016/j.bmcl.2020.127127 (IF 2.572, CHEMISTRY, ORGANIC 24/57=42.1%)
23. Yu-Chi Lin, Jue-Jun Lin, Shu-Rong Chen, Tsong-Long Hwang, Shu-Yen Fang, **Michal Korinek**, Ching-Yeu Chen, Yun-Sheng Lin, Tung-Ying Wu, Ming-Hong Yen, Chih-Hsin Wang*, Yuan-Bin Cheng*. Clerodane diterpenoids from *Callicarpa hypoleucophylla* and their anti-inflammatory activity. *Molecules*, 2020, 25, 2288. doi: 10.3390/molecules25102288 (IF 3.267, CHEMISTRY, MULTIDISCIPLINARY 70/177=39.5%)
24. Sherif S. Ebada*, Nariman A. Al-Jawabri, Fadia S. Youssef, Dina H. El-Kashef, Tim-Oliver Knedel, Amgad Albohy, **Michal Korinek**, Tsong-Long Hwang, Bing-Hung Chen, Guan-Hua Lin, Chia-Yi Lin, Sa'ed M. Aldalaien, Ahmad M. Disi, Christoph Janiak and Peter Proksch*. Anti-inflammatory, antiallergic and COVID-19 protease inhibitory activities of phytochemicals from the Jordanian hawksbeard: identification, structure–activity relationships, molecular modeling and impact on its folk medicinal uses. *RSC Advances*, 2020, 10, 38128, DOI: 10.1039/d0ra04876c (IF 3.119, CHEMISTRY, MULTIDISCIPLINARY 73/177=41.2%)

25. Iriny M. Ayoub, **Michal Korinek**, Mohamed El-Shazly, Bernhard Wetterauer, Hesham A. El-Beshbishy, Tsong-Long Hwang, Bing-Hung Chen, Fang-Rong Chang, Michael Wink, Abdel N.B. Singab, and Fadia S. Youssef. 2021. Anti-Allergic, Anti-Inflammatory, and Anti-Hyperglycemic Activity of *Chasmanthe aethiopica* Leaf Extract and Its Profiling Using LC/MS and GLC/MS. *Plants*, 2021, 10 (6), 1118. <https://doi.org/10.3390/plants10061118>. (IF 3.935, PLANT SCIENCES Q1)
26. Ibrahim S. Uras, Sherif S. Ebada, **Michal Korinek**, Amgad Albohy, Basma S. Abdulrazik, Yi-Hsuan Wang, Bing-Hung Chen, Jim-Tong Horng, Wenhan Lin, Tsong-Long Hwang, and Belma Konuklugil. Anti-Inflammatory, Antiallergic, and COVID-19 Main Protease (Mpro) Inhibitory Activities of Butenolides from a Marine-Derived Fungus *Aspergillus terreus*.

List of poster presentations

- **Michal Korinek (p)**, Shou-Fang Wu, Wan-Chun Lai, Ying-Chi Du, Yi-Hung Tsai, Yang-Chang Wu, Fang-Rong Chang. Cytotoxicity and composition of *Typhonium blumei*. *International Symposium on Traditional Chinese Medicine 2011 and the 26th Symposium on Natural Products*, Taichung, Taiwan, 29-30-October-2011, p. 125.
- **Michal Korinek (p)**, Kuan-Ming Chen, Yu-Han Jiang, Mohamed El-Shazly, Balaji D. Barve, Yi-Jin Hsieh, Yang-Chang Wu, Bing-Hung Chen, Fang-Rong Chang. Antiallergic potential of *Typhonium blumei*. *International Conference of Traditional and Complementary Medicine on Health*, Taipei, Taiwan, 25-26-May-2013.
- **Michal Korinek (p)**, Kuan-Ming Chen, Yu-Han Jiang, Mohamed El-Shazly, Balaji D. Barve, Yang-Chang Wu, Bing-Hung Chen, Fang-Rong Chang. Anti-allergic and anti-inflammatory potential of *Typhonium blumei* and *Typhonium roxburghii*: inhibition of degranulation via calcium influx modulation. *The 63rd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA 2015)*, Budapest, Hungary, 23-27-August-2015. (Congress abstract available in *Planta Medica* 2015, 81 - PW_105, doi: 10.1055/s-0035-1565729)
- **Michal Korinek (p)**, Vitthal D. Wagh, Bing-Hung Chen, Fang-Rong Chang. Antiallergic phorbol ester from the seeds of *Aquilaria malaccensis*. *The 31st Symposium on Natural Products & Symposium on Pharmacy and Traditional Chinese Medicine*, National Sun Yat-sen University, Kaohsiung, Taiwan, 14-15-October-2016, PN02. (Presented at NSYSU and KMU poster competition, May 2016)
- **Michal Korinek (p)**, Mohamed El-Shazly, Yu-Chi Tsai, Lien-Chieh Wang, Meng-Lun Yu, Yang-Chang Wu, Bing-Hung Chen, Fang-Rong Chang. Screening for anti-allergic activity of natural products. *The 65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA 2017)*, Basel, Switzerland, 3-7-September-2017, 1-PO-4756, p. 56.
- **Michal Korinek (p)**, Yi-Hong Tsai, Mohamed El-Shazly, Kuei-Hung Lai, Yang-Chang Wu, Anders Backlund, Tsong-Long Hwang, Bing-Hung Chen, Fang-Rong Chang. Anti-allergic hydroxy fatty acids from *Typhonium blumei* explored through ChemGPS-NP. *The 32nd International Symposium on Natural Products*, China Medical University, 13-14-October-2017, PN-30, p. 57.
- **Michal Korinek (p)**, Olga Mykhailenko, Chung-Fan Hsieh, Victoriya Georgiyants, Mohamed El-Shazly, Heba Handoussa, Chia-Hung Yen, Jim-Tong Horng, Tsong-Long Hwang. Antiviral effects of herbs from Ukraine against influenza and enterovirus. *The 34th Symposium of Natural Products*, Taoyuan, Taiwan, 17-19-October-2019, NPP-15, p.97.
- **Michal Korinek (p)**, Heba Handoussa, Olha Mykhailenko, Meng-Hua Chen, Zan-Wei Chiou, You-Ying Chen, Yi-Hong Tsai, Bing-Hung Chen, Fang-Rong Chang, Mohamed El-Shazly, Tsong-Long Hwang. Cumin and Fennel Volatile Oils Inhibit Respiratory Burst and Degranulation in Human Neutrophils. *The 35th symposium of Natural Products & The 3rd Dr. Tu Tsung-Ming Medicine Forum*, Taipei Medical University, Taipei, Taiwan, 11-13-September-2020, A11.
- **Michal Korinek (p)**, Heba Handoussa, Olha Mykhailenko, Meng-Hua Chen, Zan-Wei Chiou, You-Ying Chen, Yi-Hong Tsai, Bing-Hung Chen, Mohamed El-Shazly, Tsong-Long Hwang. Antimicrobial and anti-inflammatory effects of volatile oils widely used in Mediterranean diet. 20th Biennial Meeting of Society for Free Radical Research International (SFRRI), 15-18-March-2021, Narrated Communication, NC44, p.60
- **Michal Korinek (p)**, Eman Al-Sayed, Guan-Yu Chen, Pei-Wen Hsieh, Fang-Rong Chang, Bing-Hung Chen, Tsong-Long Hwang*. Anti-elastase Activity of *Melaleuca styphelioides*, Ellagitannin in Vitro and in Silico *Vanguards of Natural Product Research 2021*, American Society of Pharmacognosy, 16-July-2021 P-056, p.32.