

Curriculum Vitae

PharmDr. Michal Kořínek, 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
Marital status: married with 2 kids
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EDUCATION

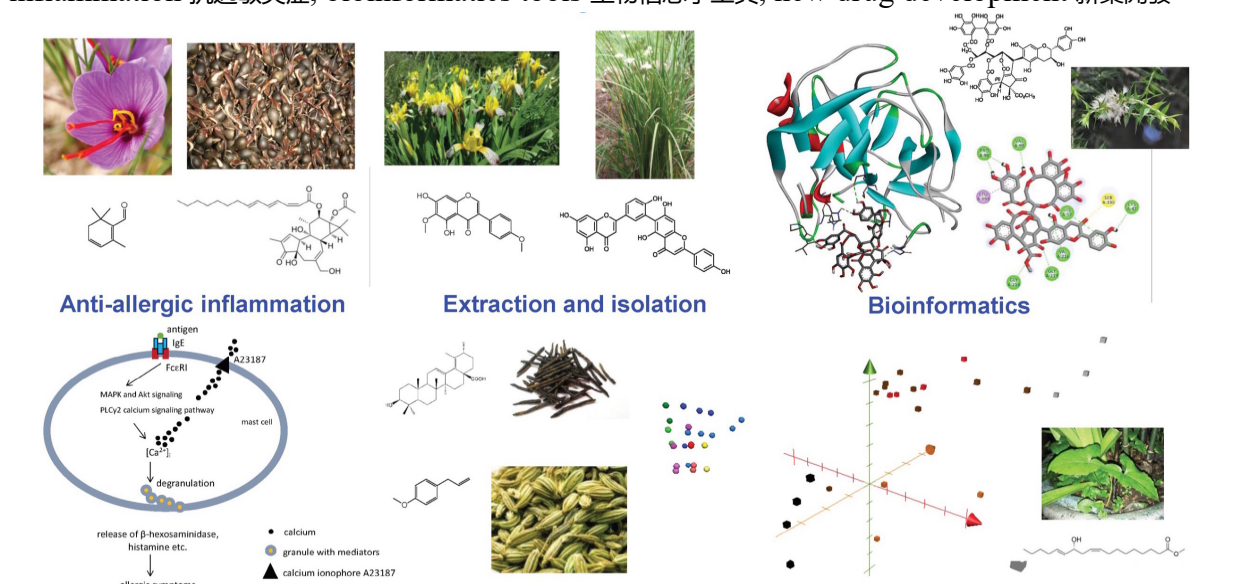
<i>Institution & Location</i>	<i>Field of Study</i>	<i>Degree</i>	<i>Year Conferred</i>
Charles University in Prague, Czech Republic 🇨🇪	Pharmacy	M.S. (Mgr.)	2003/09 - 2008/06
University of Eastern Finland, Finland 🇫🇮 & Charles University, Czech Republic 🇨🇪	Medicinal Chemistry	Pharm.Dr. (Czech Republic)	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, College of Pharmacy, Kaohsiung Medical University, Taiwan 🇹🇼
2020/09 – 2021/07	Postdoctoral researcher, National Cheng Gung University, Taiwan European Union Innovation Cooperation Platform, Taiwan 🇹🇼
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, Czech Republic 🇨🇪

RESEARCH INTERESTS

Natural product chemistry 天然藥物化學, traditional and folk medicines 傳統和民間藥物, anti-allergic inflammation 抗過敏炎症, bioinformatics tools 生物信息學工具, new drug development 新藥開發



AWARDS AND HONORS

Review Editor, Frontiers in Pharmacology, since 2020
 Member of The Society of Chinese Natural Medicine, since 2020
 Member of Society for Medicinal Plant and Natural Product Research (GA; official European Pharmacognosy Society), since 2023
 2021 年度研究績優教師 2021 Outstanding Research Award, KMU

ACADEMIC SERVICE AND CERTIFICATES

ERASMUS scholarship award, Finland, 2007
 Thesis Excellence Competition Award, Faculty of Pharmacy, Charles University, 2008
 Taiwan-Czech MOE scholarship, 2010-2013
 NSYSU-KMU poster competition award, 2016
 Global Pharmacy courses, English Corner, since 2010
 First Certificate in English, level B2, Cambridge, UK
 Test of Chinese as a Foreign Language (TOCFL) Certificate, level A2, Taiwan

PUBLICATIONS AND APPLICATION

Publications: 35 (33 SCI)

Patent: 1 (TW)

H-index: 16 (SCOPUS)

Citations: 807 (SCOPUS)

Invited speeches: 5

Posters: 13 as first author (including international conferences) and over 30 as co-author

Journal reviewer: 1. Phytomedicine, 2. Frontiers in Pharmacology, 3. Plos One, 4. Journal of Herbal Medicine, 5. South African Journal of Botany, 6. Scientific Reports, 7. Pharmaceutical Biology, 8. Trends in Food Science and Technology, 9. Journal of the Formosan Medical Association (JFMA), 10. Biomedical Journal, 11. BAOJ Surgery, 12. Pharmaceuticals (MDPI).

Academic Publications as First Author

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. doi: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 Petrikaite, 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%). **66 citations** (WoS)
 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. doi:10.1186/s12906-021-03374-3 (IF 3.659, INTEGRATIVE & COMPLEMENTARY MEDICINE 6/28=21.4%)
 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. doi:10.1016/j.bcp.2021.114596 (IF 5.858, PHARMACOLOGY & PHARMACY 39/275=14.2%).
 11. **Michal Korinek**, Heba Handoussa*, Yi-Hong Tsai, You-Ying Chen, Meng-Hua Chen, Zan-Wei Chiou, Yu Fang, Fang-Rong Chang, Chia-Hung Yen, Chung-Fan Hsieh, Bing-Hung Chen, Mohamed El-Shazly*, Tsong-Long Hwang*. Anti-inflammatory and antimicrobial volatile oils: fennel and cumin inhibit neutrophilic inflammation via regulating calcium and MAPKs. *an*. 2021, 12, 674095. doi:10.3389/fphar.2021.674095 (IF 5.811, PHARMACOLOGY & PHARMACY 40/276=14.5%).
 12. Olha Mykhailenko, Chung-Fan Hsieh, Mohamed El-Shazly, Alexander Nikishin, Vladimir Kovalyov, Pavlo Shynkarenko, Liudas Ivanauskas, Bing-Hung Chen, Jim-Tong Horng, Tsong-Long Hwang, Victoriya Georgiyants, **Michal Korinek***. Anti-viral and anti-inflammatory isoflavonoids from Ukrainian *Iris aphylla* rhizomes: structure-activity relationship coupled with ChemGPS-NP analysis. *Planta Medica*. 2023, 89, 1063–1073. doi: 10.1055/a-2063-5265 (IF 2.7, PLANT SCIENCES 92/238=38.7%).

Other Academic Publications (Selected)

13. Chien-Kei Wei, Yi-Hong Tsai, **Michal Korinek**, Pei-Hsuan Hung, Mohamed El-Shazly, Yuan-Bin Cheng, Yang-Chang Wu, Tusty-Jiuan 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%). **71 citations** (WoS)
14. 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%). **114 citations** (WoS)
15. Purnomo Kartiko Arif Purnomo, **Michal Korinek**, Yi-Hong Tsai, Hao-Chun Hu, Yi-Hsuan Wang, Anders Backlund, Tsong-Long Hwang, Bing-Hung Chen, Shih-Wei Wang, Chin-Chung Wu, Fang-Rong Chang*. Decoding multiple biofunctions of maca on its anti-allergic, anti-inflammatory, anti-thrombotic, and pro-angiogenic activities. *Journal of Agricultural and*

Food Chemistry. 2021, 69(40), 11856-11866. doi:10.1021/acs.jafc.1c03485 (IF 5.279, AGRICULTURE, MULTIDISCIPLINARY 5/57=8.7%)

16. Yen Chi Loo, Hao-Chun Hu, Szu-Yin Yu, Yi-Hong Tsai, **Michal Korinek**, Yang-Chang Wu, Fang-Rong Chang, Ying-Jung Chen. Development on potential skin anti-aging agents of *Cosmos caudatus* Kunth via inhibition of collagenase, MMP-1 and MMP-3 activities. *Phytomedicine*. 2023 Feb;110:154643. doi: 10.1016/j.phymed.2023.154643 (IF 6.656, INTEGRATIVE & COMPLEMENTARY MEDICINE 1/30=3.3%).

[†] equal contribution; * corresponding author; impact factor and ranking according to the previous year ([JCR](#))

List of Oral Presentations

- **Michal Korinek** (Narrated communication, online event). Antimicrobial and anti-inflammatory effects of volatile oils widely used in Mediterranean diet. 20th Biennial Meeting of Society for Free Radical Research International (SFRI), March 15th-18th, 2021.
- **Michal Korinek** (Invited speaker). Discovery of Anti-allergic Inflammatory Natural Products. *The 36th Symposium on Natural Products*, National Sun Yat-sen University, Kaohsiung, Taiwan. October 15th-16th, 2021.
- **Michal Korinek** (Invited speaker-online). Discovery of anti-allergic inflammatory natural products. University of Helsinki-Kaohsiung Medical University Bilateral Research Forum, Kaohsiung Medical University, Kaohsiung, Taiwan. March 18th, 2022.
- **Michal Korinek** (Invited speaker-online, Guest lecture). Bioactive Natural Products Explored with the Aid of Bioinformatic Tools. Universitas Bakti Tunas Husada, Faculty of Pharmacy, Tasikmalaya, Indonesia, invited by dean Tresna Lestari, February 25th, 2023.
- **Michal Korinek** (Invited speaker-online). Natural products against allergic inflammation and bioinformatic tools. Modern chemistry of medicines, International Internet Conference, National University of Pharmacy, Kharkiv, Ukraine. 18th May 18th, 2023.

List of Poster Presentations (Selected)

Including international conferences in natural products of European GA and American ACS societies of pharmacognosy.

- **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)**, 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)**, 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.
- **Michal Korinek (p)**, Vitthal D. Wagh, Yi-Hong Tsai, Bing-Hung Chen, Marcela Safratova, Tsong-Long Hwang, Fang-Rong Chang*. Bioactivity-guided isolation of anti-allergic inflammatory constituents from *Aquilaria malaccensis* leaves. 14th Meeting of the Asia Pacific Federation of Pharmacologists (APFP), 26-29-Nov-2021, Taipei International Conventional

- Center (TICC). Taipei, Taiwan. Poster Section: Herbal Medicine and Natural Products, E095, p. 80.
- Marcela Šafratová†, **Michal Kořínek† (p)**, Anna Hošťálková, Yu-Li Chen, Chung-Fan Hsieh, Bing-Hung Chen, Lucie Cahlíková, Lenka Tůmová, Yu-Liang Yang, Jim-Tong Horng, Tsong-Long Hwang* (2022). Discovery of anti-coronavirus bisbenzylisoquinoline alkaloids. Workshop: Recent Progress in Pharmacognosy and Phytochemistry, 23-24-Jun-2022, Garden of Medicinal plants, Faculty of Pharmacy, Charles University, Hradec Králové, Czech Republic, p.30.
 - Olha Mykhailenko†, Tsong-Long Hwang†, Kateryna Uminska, Mohamed El-Shazly, Liudas Ivanauskas, Fang-Rong Chang, Victoriya Georgiyants, **Michal Korinek* (p)** Fighting Omicron with Epilobii Herba from Ukraine, 37th Symposium on Natural Products & the Ceremony in Honor of Late Academician Professor Kuo-Hsiung Lee – Nature is the Best Guide, Kaohsiung Medical University, Kaohsiung, Taiwan, 21-23-Oct, 2022, Abstract book, NPA01, p.83.
 - Thiagarajan Raviraj, Yen Chi Loo, Kartiko Arif Purnomo, Bai-Wei Peng, Shang-Chih Lai, Yang-Chang Wu, **Michal Korinek* (p)**, Fang-Rong Chang*. Phytochemical investigation of *Leonurus japonicus* Houtt. 37th Symposium on Natural Products & the Ceremony in Honor of Late Academician Professor Kuo-Hsiung Lee – Nature is the Best Guide, Kaohsiung Medical University, Kaohsiung, Taiwan, 21-23-October-2022, NPA05, Abstract book, p. 90.
 - **Michal Korinek† (p)**, Yen Chi Loo†, Yuan-Bin Cheng, Mohamed El-Shazly, Ahmed K. Osman, Thiagarajan Raviraj, Chung-Fan Hsieh, Olha Mykhailenko, Tsong-Long Hwang, Jim-Tong Horng, Bing-Hung Chen, Attila Hunyadi*, Fang-Rong Chang*. Anti-viral and anti-inflammatory activity of phenolics from *Helianthemum lippii*. *The 71st International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA 2023)*, Dublin, Ireland, 2-5-July-2023, P-412, Abstract book, p. 528.