

MSc. Vít Hubka

CURRENT POSITION: Assistant professor, Faculty of Science, Charles University
Researcher, Academy of Sciences of the Czech Republic

EDUCATION:

Faculty of Science, Charles University, Prague; specialization mycology: 2006–2017
BSc. – 2008; MSc. – 2011; currently Ph.D. student
First Faculty of Medicine, Charles University, Prague; since 2007, currently a 6th year student of General Medicine, graduation planned for 2018

EMPLOYMENT:

Department of Botany, Charles University, Prague: since 2012
Assistant Professor (since 01/2017)
Research Assistant (2012–2017)
Institute of Microbiology AS CR, Prague: since 2011
Researcher (since 01/2011)

MAIN RESEARCH INTERESTS: species concept, taxonomy, population genetics, environmental sources, epidemiology and antifungal resistances of medically important fungi including *Aspergillus*, dermatophytes and black yeasts; causal agents of invasive and cutaneous mycoses in humans, mammals and fish.

TEACHING AND STUDENT SUPERVISION: lecturer for 2 subjects (Medical Mycology: subject guarantor; Mycology: co-teacher) at Faculty of Science; participation in teaching on the Medical Mycology courses organized by the Institute for Postgraduate Medical Education (IPVZ) - since 2013, specialized seminars of the SEM ČLS JEP - since 2012, and the University of the Third Age course - since 2016. supervisor of 1 undergraduate thesis (+8 finished).

ACADEMIC APPOINTMENTS: Council member of the Czechoslovak Society for Microbiology (since 2016). Member of the following scientific societies: International Society for Human and Animal Mycology (ISHAM), Society for Epidemiology and Microbiology (SEM ČLS JEP), Czechoslovak Society for Microbiology (ČSSM), Scientific Society for Mycology (ČVSM), Czechoslovak Microscopy Society (ČSMS).

RESEARCH GRANTS: principal investigator, supervisor or research team member of 5 projects from the Grant Agency of the Charles University; research team member of 1 project from the Ministry of Health of the CR

OTHER ACTIVITIES: Convener of the ISHAM Working Group on Dermatophytes (since 2015); co-organizer international workshop „ISHAM Workshop on Developments in Clinical and Fundamental Aspects of Dermatophytes“ (Utrecht, 2016); chair of one session. External reviewer for 24 journals.

AWARDS:

Award in honour of Josef Hlávka of the Foundation “Nadání Josefa, Marie a Zdeňky Hlávkových”, for the best students and talented young scientists: 2017
Czechoslovak Microscopy Society scholarship for the young researchers: 2016
Werner von Siemens award for supervising the best MSc. thesis of A. Čmoková: 2016
Award of the Scientia foundation for the best scientific work of students of the First Faculty of Medicine: 2014, 2015, 2016
Award of the ČSMS for the best young Czechoslovak microbiologist: 2012
Award of the head of Institute of Microbiology, Academy of Sciences, for an outstanding MSc. Thesis: 2012
Award of the dean of Faculty of Science, Charles University, for an outstanding MSc. Thesis: 2011

PUBLICATION ACTIVITY: 42 papers in journal with impact factor, 14 papers in other journals, 4 monograph chapters (3 in English, 1 in Czech)

up-to-date list: https://www.researchgate.net/profile/Vit_Hubka

ORCID: 0000-0003-4583-6496

ResearcherID: L-4124-2014

CITATION METRICS (WoS Core Collection, October 2017): 349 citations without self-cites, H-index: 13

PUBLICATIONS IN IMPACT FACTOR JOURNALS

1. **Hubka V**, Barrs V, Dudová Z, Sklenář F, Kubátová A, Matsuzawa T, Yaguchi T, Horie Y, Nováková A, Frisvad JC, Talbot JJ & Kolařík M (under review) Unravelling species boundaries in the *Aspergillus viridinutans* complex (section *Fumigati*): opportunistic human and animal pathogens capable of interspecific hybridization. *Persoonia*.
2. Lyskova P, **Hubka V**, Svobodova L, Barrs V, Dhand NK, Yaguchi T, Matsuzawa T, Horie Y, Kolarik M, Dobias R & Hamal P (under review) Antifungal susceptibility of the *Aspergillus viridinutans* complex: comparison of two *in vitro* methods. *Antimicrobial Agents and Chemotherapy*.
3. **Hubka V**, Nováková A, Jurjević Ž, Sklenář F, Frisvad JC, Houbraken J, Arendrup MC, Brandt B & Kolařík M (under review) Polyphasic data support the splitting of *Aspergillus candidus* into two species: *A. dobrogensis* sp. nov. *International Journal of Systematic and Evolutionary Microbiology*.
4. Chrenková V, **Hubka V**, Cetkovsky P, Kouba M, Weinbergerova B, Lyskova P, Hornofova L & Hubacek P (in press) Proven invasive pulmonary aspergillosis in stem cell transplant recipient due to *Aspergillus sublatus*, a cryptic species of *A. nidulans*. *Mycopathologia*. doi:10.1007/s11046-017-0223-8
5. Uhrlaß S, Schroedl W, Mehlhorn C, Krüger C, **Hubka V**, Maier T, Gräser Y & Nenoff P (in press) Molecular epidemiology of *Trichophyton quinckeanum* – a zoophilic dermatophyte on the rise. *Journal of the German Society of Dermatology*.
6. Samson RA, **Hubka V**, Varga J, Houbraken J, Hong S-B, Klaassen CHW, Perrone G, Seifert KA, Magistà D, Visagie CM, Kocsubé S, Szigeti G, Yaguchi T, Peterson SW & Frisvad JC (in press) Response to Pitt & Taylor 2016: Conservation of *Aspergillus* with *A. niger* as the conserved type is unnecessary and potentially disruptive. *Taxon*.
7. Řehulka J, Kubátová A & **Hubka V** (in press) Swim bladder mycosis in pretty tetra (*Hemigrammus pulcher*) caused by *Exophiala pisciphila* and *Phaeophleospora hymenocallidicola*, and experimental verification of pathogenicity. *Journal of Fish Diseases*. doi:10.1111/jfd.12750
8. Nováková A, **Hubka V**, Valinová Š, Kolařík M & Hillebrand-Voiculescu AM (in press) Cultivable microscopic fungi from an underground chemosynthesis-based ecosystem: a preliminary study. *Folia Microbiologica*: doi:10.1007/s12223-017-0527-6
9. **Hubka V**, Dudová Z, Kubátová A, Frisvad JC, Yaguchi T, Horie Y, Jurjević Ž, Hong SB & Kolařík M (2017) Taxonomic novelties in *Aspergillus* section *Fumigati*: *A. tasmanicus* sp. nov., induction of sexual state in *A. turcosus* and overview of related species. *Plant Systematics and Evolution* 303: 787–806.
10. Sklenář F, Jurjević Ž, Zalar P, Frisvad JC, Visagie CM, Kolařík M, Houbraken J, Chen AJ, Yilmaz N, Seifert KA, Coton M, Déniel F, Gunde-Cimerman N, Samson RA, Peterson SW & **Hubka V** (2017) Phylogeny of xerophilic aspergilli (subgenus *Aspergillus*) and taxonomic revision of section *Restricti*. *Studies in Mycology* 88: 161–236.
11. Chen AJ, **Hubka V**, Frisvad JC, Visagie CM, Houbraken J, Meijer M, Varga J, Rasime D, Jurjević Ž, Kubátová A, Sklenář F & Samson RA (2017) Polyphasic taxonomy of *Aspergillus* section *Aspergillus* (formerly *Eurotium*), and its occurrence in indoor environments and food. *Studies in Mycology* 88: 37–135.
12. Řehulka J, Kolařík M & **Hubka V** (2017) Disseminated infection due to *Exophiala pisciphila* in Cardinal tetra, *Paracheirodon axelrodi*. *Journal of Fish Diseases* 40: 1015–1024.
13. Crous PW, Wingfield MJ, Burgess TI, ..., **Hubka V**, ..., Zothanzama J & Groenewald JZ (2017) Fungal Planet description sheets: 558–624. *Persoonia* 38: 240–384.
14. Crous PW, Wingfield MJ, Burgess TI, ..., **Hubka V**, ..., Viana MG & Groenewald JZ (2017) Fungal Planet description sheets: 625–715. *Persoonia* 39: in press.

15. Visagie CM, Yilmaz N, Renaud JB, Sumarah MV, **Hubka V**, Frisvad JC, Chen AJ, Meijer M & Seifert KA (2017) A survey of xerophilic *Aspergillus* from indoor environment, including descriptions for two new section *Aspergillus* species producing eurotium-like sexual states. *MycKeys* 19: 1–30.
16. Lyskova P, Kubanek M, **Hubka V**, Sticova E, Voska L, Kautznerova D, Kolarik M, Hamal P & Vasakova M (2017) Successful posaconazole therapy of disseminated alternariosis due to *Alternaria infectoria* in a heart transplant recipient. *Mycopathologia* 182: 297–303.
17. **Hubka V**, Nováková A, Peterson SW, Frisvad JC, Sklenář F, Matsuzawa T, Kubátová A & Kolařík M (2016) A reappraisal of *Aspergillus* section *Nidulantes* with descriptions of two new sterigmatocystin producing species. *Plant Systematics and Evolution* 302: 1267–1299.
18. Kocsubé S, Perrone G, Magistà D, Houbraeken J, Varga J, Szigeti G, **Hubka V**, Hong S-B, Frisvad JC & Samson RA (2016) *Aspergillus* is monophyletic: evidence from multiple gene phylogenies and extrolites profiles. *Studies in Mycology* 85: 199–213.
19. Réblová M, **Hubka V**, Thureborn O, Lundberg J, Sallstedt T, Wedin M & Ivarsson M (2016) From the tunnels into the treetops: new lineages of black yeasts from biofilm in the Stockholm metro system and their relatives among ant-associated fungi in the Chaetothyriales. *PLoS ONE* 11: e0163396.
20. Řehulka J, Kubátová A & **Hubka V** (2016) *Cephalotheca sulfurea* (Ascomycota, Sordariomycetes), a new fungal pathogen of the farmed rainbow trout *Oncorhynchus mykiss*. *Journal of Fish Diseases* 39: 1413–1419.
21. Crous PW, Wingfield MJ, Richardson DM, ..., **Hubka V**, ..., Watling R & Groenewald JZ (2016) Fungal Planet description sheets: 400–468. *Persoonia* 36: 316–458.
22. **Hubka V**, Nováková A, Samson RA, Houbraeken J, Frisvad JC, Sklenář F, Varga J & Kolařík M (2016) *Aspergillus europaeus* sp. nov., a widely distributed soil-borne species related to *A. wentii* (section *Cremeri*). *Plant Systematics and Evolution* 302: 641–650.
23. Tyll T, Lyskova P, **Hubka V**, Muller M, Zelenka L, Curdova M, Tuckova I, Kolarik M & Hamal P (2016) Early diagnosis of cutaneous mucormycosis due to *Lichtheimia corymbifera* after a traffic accident. *Mycopathologia* 181: 119–124.
24. **Hubka V**, Nissen CV, Jensen RH, Arendrup MC, Cmokova A, Kubatova A, Skorepova M & Kolarik M (2015) Discovery of a sexual stage in *Trichophyton onychocola*, a presumed geophilic dermatophyte isolated from toenails of patients with a history of *T. rubrum* onychomycosis. *Medical Mycology* 53: 798–809.
25. Jurjević Ž, Kubátová A, Kolařík M & **Hubka V** (2015) Taxonomy of *Aspergillus* section *Petersonii* sect. nov. encompassing indoor and soilborne species with predominant tropical distribution. *Plant Systematics and Evolution* 301: 2441–2462.
26. Crous PW, Wingfield MJ, Le Roux JJ, ..., **Hubka V**, ..., Zamora JC & Groenewald JZ (2015) Fungal Planet description sheets: 371–399. *Persoonia* 35: 264–327.
27. **Hubka V**, Nováková A, Kolařík M, Jurjević Ž & Peterson SW (2015) Revision of *Aspergillus* section *Flavipedes*: seven new species and proposal of section *Jani* sect. nov. *Mycologia* 107: 169–208.
28. Lyskova P, **Hubka V**, Petricakova A, Dobias R, Cmokova A & Kolarik M (2015) Equine dermatophytosis due to *Trichophyton bullosum*, a poorly known zoophilic dermatophyte masquerading as *T. verrucosum*. *Mycopathologia* 180: 407–419.
29. Scholtz V, Soušková H, **Hubka V**, Švarcová M & Julák J (2015) Inactivation of human pathogenic dermatophytes by non-thermal plasma. *Journal of Microbiological Methods* 119: 53–58.
30. **Hubka V**, Réblová M, Řehulka J, Selbmann L, Isola D, de Hoog SG & Kolařík M (2014) *Bradomyces* gen. nov. (Chaetothyriales, Trichomeriaceae), a new ascomycetous genus accommodating poorly differentiated melanized fungi. *Antonie van Leeuwenhoek* 106: 979–992.
31. Samson RA, Visagie CM, Houbraeken J, Hong SB, **Hubka V**, Klaassen CHV, Perrone G, Seifert KA, Tanney JB, Varga J, Yaguchi T & Frisvad JC (2014) Phylogeny, identification and nomenclature of the genus *Aspergillus*. *Studies in Mycology* 78: 141–173.
32. Nováková A, **Hubka V**, Dudová Z, Matsuzawa T, Kubátová A, Yaguchi T & Kolařík M (2014) New species in *Aspergillus* section *Fumigati* from reclamation sites in Wyoming (U.S.A.) and revision of *A. viridinutans* complex. *Fungal Diversity* 64: 253–274.
33. **Hubka V**, Cmokova A, Skorepova M, Mikula P & Kolarik M (2014) *Trichophyton onychocola* sp. nov., isolated from human nail. *Medical Mycology* 52: 285–292.

34. Kano R, Yoshida E, Yaguchi T, **Hubka V**, Anzawa K, Mochizuki T, Hasegawa A & Kamata H (2014) Mating type gene (MAT1-2) of *Trichophyton verrucosum*. *Mycopathologia* 177: 87–90.
35. **Hubka V**, Lysková P, Frisvad JC, Peterson SW, Skořepová M & Kolařík M (2014) *Aspergillus pragensis* sp. nov. discovered during molecular reidentification of clinical isolates belonging to *Aspergillus* section *Candidi*. *Medical Mycology* 52: 565–576.
36. **Hubka V**, Dobiasova S, Dobias R & Kolarik M (2014) *Microsporium aenigmaticum* sp. nov., a new member of *M. gypseum* complex isolated as a cause of tinea corporis. *Medical Mycology* 52: 387–396.
37. Šimonovičová A, Nováková A, Pangallo D, Hnátová V & **Hubka V** (2014) The occurrence of heat-resistant species of *Trichophaea abundans* in different types of soil in Slovakia and Czech Republic. *Biologia* 69: 168–172.
38. **Hubka V**, Kolařík M, Kubátová A & Peterson SW (2013) Taxonomic revision of *Eurotium* and transfer of species to *Aspergillus*. *Mycologia* 105: 912–937.
39. **Hubka V**, Peterson SW, Frisvad JC, Yaguchi T, Kubátová A & Kolařík M (2013) *Aspergillus waksmanii* sp. nov. and *Aspergillus marvanovae* sp. nov., two closely related species in section *Fumigati*. *International Journal of Systematic and Evolutionary Microbiology* 63: 783–789.
40. **Hubka V**, Dobiasova S, Lyskova P, Mallatova N, Chlebkova J, Skorepova M, Kubatova A, Dobias R, Chudickova M & Kolarik M (2013) *Auxarthron ostraviense* sp. nov., and *A. umbrinum* associated with non-dermatophytic onychomycosis. *Medical Mycology* 51: 614–624.
41. Jurjevic Z, Peterson SW, Stea G, Solfrizzo M, Varga J, **Hubka V** & Perrone G (2012) Two novel species of *Aspergillus* section *Nigri* from indoor air. *IMA Fungus* 3: 159–173.
42. **Hubka V** & Kolařík M (2012) β -tubulin paralogue *tubC* is frequently misidentified as the *benA* gene in *Aspergillus* section *Nigri* taxonomy: primer specificity testing and taxonomical consequences. *Persoonia* 29: 1–10.
43. Nováková A, **Hubka V**, Saiz-Jimenez C & Kolarik M (2012) *Aspergillus baeticus* sp. nov. and *Aspergillus thesauricus* sp. nov.: two species in section *Usti* originating from Spanish caves. *International Journal of Systematic and Evolutionary Microbiology* 62: 2778–2785.
44. **Hubka V**, Kubatova A, Mallatova N, Sedlacek P, Melichar J, Skorepova M, Mencl K, Lyskova P, Sramkova B, Chudickova M, Hamal P & Kolarik M (2012) Rare and new aetiological agents revealed among 178 clinical *Aspergillus* strains obtained from Czech patients and characterised by molecular sequencing. *Medical Mycology* 50: 601–610.
45. **Hubka V**, Mencl K, Skorepova M, Lyskova P & Zalabska E (2011) Phaeohiphomycosis and onychomycosis due to *Chaetomium* spp., including the first report of *Chaetomium brasiliense* infection. *Medical Mycology* 49: 724–733.

PUBLICATIONS IN JOURNALS WITHOUT IMPACT FACTOR

1. Nováková A, Kubátová A, Valinová Š, **Hubka V**, Kolařík M (2015) *Trichoderma fassatia*, a new species from the section *Pachybasium* isolated from soil in the Czech Republic. *Czech Mycology* 67: 227–231.
2. **Hubka V**, Čmoková A, Skořepová M, Mallátová N, Dobiášová S, Lysková P, Mencl K, Janouškovcová H, Buchta V, Větrovský T & Kolařík M (2014) Současný vývoj v taxonomii dermatofytů a doporučení v pojmenovávání klinicky významných druhů. *Československá dermatologie* 89: 151–166.
3. **Hubka V**, Větrovský T, Dobiášová S, Skořepová M, Lysková P, Mencl K, Mallátová N, Janouškovcová H, Hanzlíčková J, Dobiáš R, Čmoková A, Stará J, Hamal P, Svobodová L & Kolařík M (2014) Molekulární epidemiologie dermatofytóz v České republice: výsledky dvouleté studie. *Československá dermatologie* 89: 167–174.
4. Čmoková A, Hamal P, Svobodová L & **Hubka V** (2014) Detekce, identifikace a typizace dermatofytů molekulárně genetickými metodami. *Československá dermatologie* 89: 175–186.
5. Lysková P, **Hubka V** & Bodnářová J (2014) Příklad tinea corporis vyvolaný *Microsporium incurvatum*, geofilním druhem příbuzným *M. gypseum*. *Československá dermatologie* 89: 187–191.
6. Skořepová M, **Hubka V**, Polášková S, Stará J & Čmoková A (2014) Naše první zkušenosti s infekcemi vyvolanými *Arthroderma benhamiae* (*Trichophyton* sp.). *Československá dermatologie* 89: 192–198.
7. Mallátová N, Janatová H, Kocourková K, **Hubka V**, Dobiášová S, Širůček P, Nováková J, Šimečková K (2014) *Arthroderma benhamiae* jako původce tinea capitis profunda a tinea corporis u dětských pacientů. *Československá dermatologie* 89: 199–204.

8. Švarcová M, Julák J, **Hubka V**, Soušková H & Scholtz V (2014) Treatment of a superficial mycosis by low-temperature plasma: A case report. *Prague Medical Report* 115: 73–78.
9. Lysková P, **Hubka V**, Navrátilová P, Kolařík M & Skořepová M (2014) Two cases of mycotic infection of nails with participation of *Cryptendoxyla hypophloia*. *Klinická mikrobiologie a infekční lékařství* 20: 23–26.
10. Lysková P, Žáčková P, Petečuková V, **Hubka V**, Vašáková M, Matěj R, Čermák J, Kubátová A, Kolařík M, Kozák T & Hricíková I (2013) Plicní mukormykóza vyvolaná *Rhizopus microsporus*. *Klin Mikrobiol Infekc Lek* 19: 132–137.
11. Lysková P, **Hubka V**, Fajkošová K, Macková HA, Vojtíšková J, Skořepová M, Šrámková B & Kolařík M (2012) *Fusarium* jako původce onychomykózy rezistentní k běžné antimykotické terapii. *Klinická mikrobiologie a infekční lékařství* 18: 184–192.
12. Stuchlik D, Mencl K, **Hubka V** & Skořepová M (2011) Fungal melanonychia caused by *Onychocola canadensis*: first records of nail infections due to *Onychocola* in the Czech Republic. *Czech Mycology* 63: 83–91.
13. **Hubka V** & Mallátová N (2012) Vlákňité houby z povrchu lidského těla. *Živa* 3/2012: 107–110.
14. **Hubka V** (2009) N Dermatofytické vlákňité houby izolované při suspektní onychomykóze. *Mykologické Listy* 107: 23–35.

BOOK CHAPTERS

1. **Hubka V**, Peano A, Cmokova A, Guillot J (in press) Chapter 3: Common and emerging dermatophytoses in animals: well-known and new threats. In: Seyedmousavi A, de Hoog GS, Guillot J, Verweij PE eds. *Emerging and Epidemic Fungal Infections in Animals*. Springer.
2. Šimůnek J, Lefnerová D, Kubátová A, Chaloupková J, Prášil K, Pavelková J, **Hubka V** (2015) Mykologické vyšetření knih a prostředí knihovny benediktinského kláštera v Rajhradě. Masarykova Univerzita Brno, 74 pp. ISBN 978-80-210-8069-0
3. **Hubka V** (2015) *Chaetomium*. In: Paterson RRM, Lima NMVS eds. *Molecular Biology of Food and Water Borne Mycotoxigenic and Mycotic Fungi of Humans*. Boca Raton, CRC Press: 211-228.
4. Novaková A, **Hubka V** & Saiz-Jimenez C (2014) Microscopic fungi isolated from cave air and sediments in the Nerja Cave – preliminary results. In: Saiz-Jimenez C ed. *The conservation of subterranean cultural heritage*. Leiden, CRC Press: 239-245. 320 pp. ISBN: 978-1-138-02694-0

INVITED TALKS AT INTERNATIONAL CONFERENCES AND UNIVERSITIES

1. Current developments in the taxonomy of clinically relevant *Aspergillus* species. IUMS Congresses 2017; Singapore, 17-21 July 2017.
2. Hidden species diversity of fungal pathogens causing superficial mycoses. ČSMS MIKROSKOPIE 2017; Bratislava, Slovakia, 9-10 May 2017.
3. Clinical significance and taxonomy of geophilic dermatophytes. ISHAM Workshop Developments in Clinical and Fundamental Aspects of Dermatophytes; Utrecht, The Netherlands, 29-30 October 2016.
4. Molecular epidemiology of dermatophytosis in the Czech Republic: results of 4-year multicentric survey. ISHAM Workshop Developments in Clinical and Fundamental Aspects of Dermatophytes; Utrecht, The Netherlands, 29-30 October 2016.
5. Cryptic *Aspergillus* species causing feline aspergillosis: how many hidden pathogens are there? 2016 ISCAID & IFRRS Symposium; Bristol, UK, 16-19 October 2016.
6. Taxonomy and species concept in *Aspergillus* with focus on *A. viridinutans* complex. University of Sydney, Australia, 12th May 2015.
7. New and rediscovered dermatophyte species. 19th ISHAM Congress, Melbourne. Australia, 4-8 May 2015.
8. Molecular epidemiology of dermatophytosis in the Czech Republic: results of a three-year survey. 19th ISHAM Congress, Melbourne, Australia, 4-8 May 2015.