

Publications

Aldejohann AM, Menner C, Thielemann N, Martin R, Walther G, Kurzai O (2024) *In vitro* activity of ibrexafungerp against clinically relevant echinocandin-resistant *Candida* strains. *Antimicrob Agents Chemother* 68(2), e0132423.

Banz M, Stallmach A, Gaßler N, Schulze PC, Fritzenwanger M, Cornely O, Kurzai O, Pletz MW (2024) Fatal pulmonary hemorrhage, pneumothorax and skin necrosis caused by IRIS to an *Aspergillus flavus* infection in a young patient with metamizole associated agranulocytosis. *Infection* 52(2), 685-690.

Schrenker B, Zimmermann A, Koch T, Walther G, Martin R, Kampik D, Kurzai O, Theuersbacher J (2024) Polyhexanide based contact lens storage fluids frequently exhibit insufficient antifungal activity against *Fusarium* species. *Int J Med Microbiol* 314, 151602.

Aldejohann AM, Martin R, Hecht J, Haller S, Rickerts V, Walther G, Eckmanns T, Kurzai O (2023) Rise in *Candida Auris* cases and first nosocomial transmissions in Germany. *Dtsch Arztbl Int* 120(27-28), 447-478.

Cordeiro TRL, Walther G, Lee HB, et al (2023) A polyphasic approach to the taxonomy of *Backusella* reveals two new species. *Mycological Progress* 22,

Engels G, Oechsle AL, Schlegtendal A, Maier C, Holzwarth S, Streng A, Lange B, Karch A, Petersmann A, Streeck H, Blaschke-Steinbrecher S, Härtel C, Schroten H, von Kries R, Berner R, Liese J, Brinkmann F, Toepfner N (2023) SARS-CoV-2 sero-immunity and quality of life in children and adolescents in relation to infections and vaccinations: the IMMUNEBRIDGE KIDS cross-sectional study, 2022. *Infection* 51(5), 1531-1539.

Furaijat G, Bettac L, Kächele M, Grüner B, Skrabal C, Barth TFE, Parlak M, Hagemann JB, Peters L, Walther G, Kersten J (2023) An unusual presentation of invasiv *Fusarium* aortitis in a patient who is immunocompromised: A case report. *Int J Infect Dis* 134, 102-105.

Garbe E, Thielemann N, Hohner S, Kumar A, Vylkova S, Kurzai O, Martin R (2023) Functional analysis of the *Candida albicans* ECE1 Promoter. *Microbiol Spectr* 11(2), e0025323.

Götze S, Vij R, Burow K, Thome N, Urbat L, Schlosser N, Pflanze S, Müller R, Hänsch VG, Schlabach K, Fazlikhani L, Walther G, Dahse HM, Regestein L, Brunke S, Hube B, Hertweck C, Franken P, Stallforth P (2023) Ecological niche-inspired genome mining leads to the discovery of crop-protecting nonribosomal lipopeptides featuring a transient amino acid building block. *J Am Chem Soc* 145(4), 2342-2353.

Häder A[#], Schäuble S[#], Gehlen J, Thielemann N, Buerfent BC, Schüller V, Hess T, Wolf T, Schröder J, Weber M, Hünniger K, Löffler J, Vylkova S, Panagiotou G, Schumacher J, Kurzai O (2023) Pathogen-specific innate immune response patterns are distinctly affected by genetic diversity. *Nat Commun* 14(1), 3239.

Hagen F, Walther G, Houbraken J, Scott J, Summerbell R, Boekhout T (2023) Molecular Taxonomy. In: Hospenthal DR, Rinaldi MG, Walsh TJ (eds.) *Diagnosis and Treatment of Fungal Infections* pp. 31-60. Springer. ISBN: 978-3-031-35802. (Review)

Knies K, Wagenhäuser I, Hofmann D, Rauschenberger V, Eisenmann M, Reusch J, Flemming S,

Andres O, Petri N, Topp MS, Papsdorf M, McDonogh M, Verma-Führing R, Scherzad A, Zeller D, Böhm H, Gesierich A, Seitz AK, Kiderlen M, Gawlik M, Taurines R, Wurmb T, Ernestus RI, Forster J, Weismann D, Weißbrich B, Liese J, Vogel U, Kurzai O, Dölken L, Gabel A, Krone M (2023) The sensitivity of rapid tests for SARS-CoV-2 antigen. *Dtsch Arztebl Int* 120(45), 763-764.

Krone M, Wagenhäuser I, Knies K, Hofmann D, Engels G, Taurines R, McDonogh M, Flemming S, Meyer T, Böhm H, Scherzad A, Eisenmann M, Rauschenberger V, Gabel A, Petri N, Reusch J, Forster J, Weißbrich B, Dölken L, Kurzai O, Vogel U, Härtel C, Liese J, Andres O (2023) Clinical accuracy of SARS-CoV-2 rapid antigen testing in screening children and adolescents. *J Infect* 86(3), 256-308.

Kurzai O, Claus H, Lâm TT (2023) Obituary Prof. Ulrich Vogel, MD 1964-2022: a scientific mentor and expert in infection prevention and control. *Med Microbiol Immunol* 212(1), 1-2. (Review)

Micheel J, Aron F, Kelani AA, Girbhardt C, Blango MG, Walther G, Wollny D (2023) RNA-based sensitive fungal pathogen detection. *bioRxiv* [Preprint]

Mirhakkak MH^{*}, Chen X^{*}, Heinekamp T, Sae-Ong T, Xu LL, Ni Y, Kurzai O, Barber AE, Brakhage AA, Boutin S, Schäuble S[#], Panagiotou G[#] (2023) Genome-scale Metabolic modeling of *Aspergillus fumigatus* strains reveals growth dependencies on the lung microbiome. *Nat Commun* 14(1), 4369.

Papan C, Geipel M, Heidtmann S, Müller R, Praschmo D, Meier CM, Walther G, Kurzai O, Groll AH, Zemlin M, Simon A (2023) A mould in the fold should never grow old: cutaneous aspergillosis in a preterm neonate. *Clin Microbiol Infect* 29(3), 338-339.

Reusch J, Wagenhäuser I, Gabel A, Eggestein A, Höhn A, Lâm TT, Frey A, Schubert-Unkmeir A, Dölken L, Frantz S, Kurzai O, Vogel U, Krone M, Petri N (2023) Influencing factors of anti-SARS-CoV-2-spike-IgG antibody titers in healthcare workers: A cross-section study. *J Med Virol* 95(1), e28300.

Reusch J, Wagenhäuser I, Gabel A, Höhn A, Lâm TT, Krone LB, Frey A, Schubert-Unkmeir A, Dölken L, Frantz S, Kurzai O, Vogel U, Krone M, Petri N (2023) Inability to work following COVID-19 vaccination-a relevant aspect for future booster vaccinations. *Public Health* 222, 186-195.

Sartawi Z, Blackshields C, Ariamanesh A, Farag FF, Griffin B, Crean A, Devine K, Elkhashab M, Aldejohann AM, Kurzai O, Faisal W (2023) Glass microneedles: A case study for regulatory approval using a quality by design approach. *Adv Mater* 35(52), e2305834.

Wagenhäuser I, Knies K, Hofmann D, Rauschenberger V, Eisenmann M, Reusch J, Gabel A, Flemming S, Andres O, Petri N, Topp MS, Papsdorf M, McDonogh M, Verma-Führing R, Scherzad A, Zeller D, Böhm H, Gesierich A, Seitz AK, Kiderlen M, Gawlik M, Taurines R, Wurmb T, Ernestus RI, Forster J, Weismann D, Weißbrich B, Dölken L, Liese J, Kaderali L, Kurzai O, Vogel U, Krone M (2023) Virus variant-specific clinical performance of SARS coronavirus two rapid antigen tests in point-of-care use, from November 2020 to January 2022. *Clin Microbiol Infect* 29(2), 225-232.

Wagenhäuser I, Mees J, Reusch J, Lâm TT, Schubert-Unkmeir A, Krone LB, Frey A, Kurzai O, Frantz S, Dölken L, Liese J, Gabel A, Petri N, Krone M (2023) Determinants of Influenza A infection rate in post-COVID-19 era. *J Infect* 87(4), 361-364.

Wagenhäuser I, Reusch J, Gabel A, Höhn A, Lâm TT, Almanzar G, Prelog M, Krone LB, Frey A, Schubert-Unkmeir A, Dölken L, Frantz S, Kurzai O, Vogel U, Petri N, Krone M (2023) Immunogenicity and safety of coadministration of COVID-19 and influenza vaccination. *Eur Respir J* 61(1), 2201390.

Wagenhäuser I, Reusch J, Gabel A, Krone LB, Kurzai O, Petri N, Krone M (2023) Bivalent BNT162b2 mRNA original/omicron BA.4-5 booster vaccination: adverse reactions and inability to work compared with the monovalent COVID-19 booster. *Clin Microbiol Infect* 29(4), 554-556.

Wagenhäuser I, Reusch J, Gabel A, Mees J, Nyawale H, Frey A, Lâm TT, Schubert-Unkmeir A, Dölken L, Kurzai O, Frantz S, Petri N, Krone M, Krone LB (2023) The relationship between mental health, sleep quality and the immunogenicity of COVID-19 vaccinations. *J Sleep Res*, e13929.

Weiβ M, Gründahl M, Deckert J, Eichner FA, Kohls M, Störk S, Heuschmann PU, Hein G (2023) Differential network interactions between psychosocial factors, mental health, and health-related quality of life in women and men. *Sci Rep* 13(1), 11642.

Aldejohann AM, Wiese-Posselt M, Gastmeier P, Kurzai O (2022) Expert recommendations for prevention and management of *Candida auris* transmission. *Mycoses* 65(6), 590-598. (Review)

Belyaev I*, Marolda A*, Praetorius JP, Sarkar A, Medyukhina A, Hünniger K, Kurzai O, Figge MT (2022) Automated characterisation of neutrophil activation phenotypes in *ex vivo* human *Candida* blood infections. *Comput Struct Biotechnol J* 20, 2297-2308.

Bloos F, Held J, Kluge S, Simon P, Kogelmann K, de Heer G, Kuhn SO, Jarczak D, Motsch J, Hempel G, Weiler N, Weyland A, Drüner M, Gründling M, Meybohm P, Richter D, Jaschinski U, Moerer O, Günther U, Schädler D, Weiss R, Putensen C, Castellanos I, Kurzai O, Schlattmann P, Cornely OA, Bauer M, Thomas-Rüddel D (2022) (1 → 3)- β -D-Glucan-guided antifungal therapy in adults with sepsis: the CandiSep randomized clinical trial. *Intensive Care Med* 48(7), 865-875.

Engels G, Forster J, Streng A, Rücker V, Rudolph P, Pietsch F, Wallstabe J, Wallstabe L, Krauthausen M, Schmidt J, Ludwig T, Bauer C, Gierszewski D, Bendig J, Timme S, Jans T, Weiβrich B, Romanos M, Dölken L, Heuschmann P, Härtel C, Gágyor I, Figge MT, Liese J, Kurzai O (2022) Acceptance of different self-sampling methods for semiweekly SARS-CoV-2 testing in asymptomatic children and childcare workers at German Day Care Centers: A nonrandomized controlled trial. *JAMA Netw Open* 5(9), e2231798.

Engels G, Hecker K, Forster J, Toepfner N, Hick E, Pietsch F, Heuschmann P, Berner R, Härtel C, Kurzai O, Petersmann A, Streng A, Liese J (2022) High Seroprevalence of SARS-CoV-2 in Preschool Children in July 2022. *Dtsch Arztebl Int* 119(45), 771-772.

Erdenetsogt U, Nadmid S, Paetz C, Dahse HM, Voigt K, Gotov C, Boland W, Dagvadorj E (2022) New guaianolide sesquiterpene lactones and other constituents from *Pyrethrum pulchrum*. *Planta Med* 88(5), 380-388.

Forster J, Koc Ö, Koeppel MB, Hamprecht A, Kurzai O, Suerbaum S, Wagener J, Dichtl K (2022) β -1,3-D-glucan and galactomannan as biomarkers for the detection of invasive *Geotrichum* and *Magnusiomyces* infections: a retrospective evaluation. *J Clin Microbiol* 60(1), e0160721.

Forster J, Streng A, Rudolph P, Rücker V, Wallstabe J, Timme S, Pietsch F, Hartmann K, Krauthausen M, Schmidt J, Ludwig T, Gierszewski D, Jans T, Engels G, Weiβrich B, Romanos M, Dölken L, Heuschmann P, Härtel C, Gágyor I, Figge MT, Kurzai O, Liese J (2022) Feasibility of

SARS-CoV-2 surveillance testing among children and childcare workers at German Day Care Centers: A nonrandomized controlled trial. *JAMA Netw Open* 5(1), e2142057.

Fuchs F, Aldejohann AM, Hoffmann AM, Walther G, Kurzai O, Hamprecht AG (2022) *In vitro* activity of nitroxoline in antifungal-resistant *Candida* species isolated from the urinary tract. *Antimicrob Agents Chemother* 66(6), e0226521.

Gierszewski D, Kurotschka PK, Krauthausen M, Fröhlich W, Forster J, Pietsch F, Streng A, Rücker V, Wallstabe J, Hartmann K, Jans T, Engels G, Romanos M, Heuschmann P, Härtel C, Kurzai O, Liese J, Gágyor I (2022) Parents' and childcare workers' perspectives toward SARS-CoV-2 test and surveillance protocols in pre-school children day care centers: A qualitative study within the German Wü-KiTa-CoV project. *Front Med (Lausanne)* 9, 897726.

Gierszewski D, Kurotschka PK, Krauthausen M, Fröhlich W, Forster J, Pietsch F, Streng A, Rücker V, Wallstabe J, Hartmann K, Jans T, Engels G, Romanos M, Heuschmann P, Härtel C, Kurzai O, Liese J, Gágyor I (2022) Corrigendum: Parents' and childcare workers' perspectives toward SARS-CoV-2 test and surveillance protocols in pre-school children day care centers: A qualitative study within the german Wü-KiTa-CoV project. *Front Med (Lausanne)* 9, 973518.

Hinrichs C, Wiese-Posselt M, Graf B, Geffers C, Weikert B, Enghard P, Aldejohann A, Schrauder A, Knaust A, Eckardt KU, Gastmeier P, Kurzai O (2022) Successful control of *Candida auris* transmission in a German COVID-19 intensive care unit. *Mycoses* 65(6), 643-649.

Koehler P, von Stillfried S, Garcia Borrega J, Fuchs F, Salmanton-García J, Pult F, Böll B, Eichenauer DA, Shimabukuro-Vornhagen A, Kurzai O, Boor P, Kochanek M, Cornely OA (2022) *Aspergillus* tracheobronchitis in COVID-19 ARDS patients - a cohort study. *Eur Respir J* 59(5), 2103142.

Kohlenberg A, Monnet DL, Plachouras D, Candida auris survey collaborative group; Candida auris survey collaborative group includes the following national experts. (2022) Increasing number of cases and outbreaks caused by *Candida auris* in the EU/EEA, 2020 to 2021. *Euro Surveill* 27(46), 2200846.

Noster J, Köppel M, Desnos-Ollivier M, Aigner M, Bader O, Dichtl K, Göttig S, Haas A, Kurzai O, Pranada A, Stelzer Y, Walther G, Hamprecht A (2022) Bloodstream infections caused by *Magnusiomyces capitatus* and *Magnusiomyces clavatus*: epidemiological, clinical and microbiological features of two emerging yeast species. *Antimicrob Agents Chemother* 66(2), e0183421.

Rogers TR, Verweij PE, Castanheira M, Dannaoui E, White PL, Arendrup MC (2022) Molecular mechanisms of acquired antifungal drug resistance in principal fungal pathogens and EUCAST guidance for their laboratory detection and clinical implications. *J Antimicrob Chemother* 77(8), 2053-2073. (Review)

Rohde J, Himmel W, Hofinger C, Lâm TT, Schrader H, Wallstabe J, Kurzai O, Gágyor I (2022) Diagnostic accuracy and feasibility of a rapid SARS-CoV-2 antigen test in general practice - a prospective multicenter validation and implementation study. *BMC Prim Care* 23(1), 149.

Rohner S, Morell M, Wohlsein P, Stürznickel J, Reiter EB, Jahnke A, Prenger-Berninghoff E, Ewers C, Walther G, Striewe LC, Virgilio Failla A, Siebert U (2022) Fatal aspergillosis and evidence of unrelated hearing loss in a harbor porpoise (*Phocoena phocoena*) from the German Baltic Sea. *Front Mar Sci* 9, 958019.

Seidel D, Simon M, Sprute R, Lubnow M, Evert K, Speer C, Seeßle J, Khatamzas E, Merle U, Behrens C, Blau IW, Enghard P, Haas CS, Steinmann J, Kurzai O, Cornely OA (2022) Results from a national survey on COVID-19-associated mucormycosis in Germany: 13 patients from six tertiary hospitals. *Mycoses* 65(1), 103-109.

Seif M, Kakuschke TK, Ebel F, Bellet MM, Trinks N, Renga G, Pariano M, Romani L, Tappe B, Espie D, Donnadieu E, Hünniger K, Häder A, Sauer M, Damotte D, Alifano M, White PL, Backx M, Nerreter T, Machwirth M, Kurzai O, Prommersberger S, Einsele H, Hudecek M, Löffler J (2022) CAR T cells targeting *Aspergillus fumigatus* are effective at treating invasive pulmonary aspergillosis in preclinical models. *Sci Transl Med* 14(664), eabh1209.

Tappe B, Lauruschkat C, Strobel L, Kurzai O, Rebhan S, Kraus S, Lauruschkat C, Garcia JP, Bussemer L, Possler L, Held M, Huenniger K, Kniemeyer O, Schäuble S, Brakhage AA, Panagiotou G, White L, Einsele H, Löffler J, Wurster S (2022) COVID-19 patients share common, corticosteroid-independent features of impaired host immunity to pathogenic molds. *Front Immunol* 13, 954985.

Thielemann N, Herz M, Kurzai O, Martin R (2022) Analyzing the human gut mycobiome - A short guide for beginners. *Comput Struct Biotechnol J* 20, 608-614. (Review)

Thomas-Rüddel D, Schlattmann P, Pletz M, Kurzai O, Bloos F (2022) Risk factors for invasive *Candida* infection in critically ill patients - a systematic review and meta-analysis. *Chest* 161(2), 345. (Review)

Zoran T, Seelbinder B, White PL, Price JS, Kraus S, Kurzai O, Linde J, Häder A, Loeffler C, Grigoleit GU, Einsele H, Panagiotou G, Loeffler J, Schäuble S (2022) Molecular profiling reveals characteristic and decisive signatures in patients after allogeneic stem cell transplantation suffering from invasive pulmonary aspergillosis. *J Fungi (Basel)* 8(2), 171.

Aldejohann AM, Herz M, Martin R, Walther G, Kurzai O (2021) Emergence of resistant *Candida glabrata* in Germany. *JAC Antimicrob Resist* 3(3), dlab122.

Aldejohann AM, Theuersbacher J, Haug L, Lamm OS, Walther G, Kurzai O, Hillenkamp J, Kampik D (2021) First case of *Kluyveromyces marxianus* (*Candida kefyr*) late onset keratitis after lamellar endothelial corneal graft. *Med Mycol Case Rep* 32, 21-24.

Barber AE*, Sae-Ong T*, Kang K, Seelbinder S, Li J, Walther G, Panagiotou G# & Kurzai O# (2021) *Aspergillus fumigatus* pan-genome analysis identifies genetic variants associated with human infection. *Nat Microbiol* 6(12), 1526-1536.

Böttcher S, Hartung S, Meyer F, Rummler S, Voigt K, Walther G, Hochhaus A, von Lilienfeld-Toal M, Jahreis S (2021) Human mucosal-associated invariant T cells respond to Mucorales species in a MR1-dependent manner. *Med Mycol* 59(5), 505-509.

Brasch J, Gräser Y, Beck-Jendroscheck V, Voss K, Torz K, Walther G, Schwarz T (2021) „Indische“ *Trichophyton mentagrophytes*-Stämme mit reduzierter Itraconazol-Empfindlichkeit in Deutschland. *J Dtsch Dermatol Ges* 19(12), 1723-1728. (Review)

Brasch J, Gräser Y, Beck-Jendroscheck V, Voss K, Torz K, Walther G, Schwarz T (2021) "Indian" strains of *Trichophyton mentagrophytes* with reduced itraconazole susceptibility in Germany. *J Dtsch Dermatol Ges* 19(12), 1723-1727. (Review)

Eichner FA, Gelbrich G, Weißbrich B, Dölken L, Kurzai O, Deckert J, Ertl G, Barth M, Hein G, Neuhauser H, Morbach C, Störk S, Heuschmann P (2021) [Seroprevalence of COVID-19 and psychosocial effects in the general population: Results of the STAAB-COVID-one program]. *Gesundheitswesen* 83(12), 965-975.

Fuchs F, Hof H, Hofmann S, Kurzai O, Meis JF, Hamprecht A (2021) Antifungal activity of nitroxoline against *Candida auris* isolates. *Clin Microbiol Infect* 27(11), 1697.e7.

Groll AH, Gordon K, Buchheidt D, Willinger B, Heinz WJ, Kurzai O, Rickerts V, Cornely OA - Medical Mycology at German Academic Medical Centers (MMGAMC) Study Group (2021) State of Medical Mycology at German Academic Medical Centres: A survey of the German-Speaking Mycological Society (DMYKG) and the Paul-Ehrlich-Society for Chemotherapy (PEG). *Mycoses* 64(10), 1177-1182.

Jiao C, Sharma S, Dugar G, Peeck NL, Bischler T, Wimmer F, Yu Y, Barquist L, Schoen C, Kurzai O, Sharma CM, Beisel CL (2021) Noncanonical crRNAs derived from host transcripts enable multiplexable RNA detection by Cas9. *Science* 372(6545), 941-948.

Krone M, Gütling J, Wagener J, Lâm TT, Schoen C, Vogel U, Stich A, Wedekink F, Wischhusen J, Kerkau T, Beyersdorf N, Klingler S, Backes S, Dölken L, Gasteiger G, Kurzai O, Schubert-Unkmeir A (2021) Performance of three SARS-CoV-2 immunoassays, three rapid lateral flow tests, and a novel bead-based affinity surrogate test for the detection of SARS-CoV-2 antibodies in human serum. *J Clin Microbiol* 59(8), e0031921.

Loos D^{*}, Zhang L, Beemelmanns C, Kurzai O, Panagiotou G[#] (2021) DAriEL: A user-friendly web server for fungal ITS amplicon sequencing data. *Front Microbiol* 12, 720513.

Mottola A, Ramírez-Zavala B, Hünniger K, Kurzai O, Morschhäuser J (2021) The zinc cluster transcription factor Czf1 regulates cell wall architecture and integrity in *Candida albicans*. *Mol Microbiol* 116(2), 483-497.

Roth M, Holtmann C, Daas L, Kakkassery V, Kurzai O, Geerling G, Bäurle S, Bayoudh W, Brücher V, Cvetkova-Fischer N, Dias Blak M, Bornstein A, Fischer C, Fuest M, Grisanti S, Herwig-Carl M, Kroll S, Lenk J, Lommatsch C, MacKenzie C, Matthaei M, Mehlan J, Messmer E, Müller V, Pawlik V, Ranjbar M, Renner-Wilde A, Rickmann A, Saeger M, Schargus M, Schwarz L, Seitz B, Steindor F, Unterlauf JD, Viestenz A, von Lilienfeld-Toal M, Walther G (2021) Results from the German fungal keratitis registry: Significant differences between cases with and without a history of contact lens use. *Cornea* 40(11), 1453-1461.

Sattler J, Noster J, Brunke A, Plum G, Wiegel P, Kurzai O, Meis JF, Hamprecht A (2021) Comparison of two commercially available qPCR kits for the detection of *Candida auris*. *J Fungi (Basel)* 7(2), 154.

Schneitler S, Bub F, Benthen S, Lepper PM, Kurzai O, Becker SL, Roth S (2021) Floating fungus balls in a blood culture bottle. *Clin Microbiol Infect* 27(12), 1790-1791.

Springer J, Held J, Mengoli C, Schlegel PG, Gamon F, Träger J, Kurzai O, Einsele H, Loeffler J, Eyrich M (2021) Diagnostic performance of (1→3)-β-D-glucan alone and in combination with *Aspergillus* PCR and galactomannan in serum of pediatric patients after allogeneic hematopoietic stem cell transplantation. *J Fungi (Basel)* 7(3), 238.

Vaezi A, Walther G, Kurzai O, Mahdi D, Dadashzadeh M, Nasri E, Diba K, Badali H, Fakhim H

(2021) Frequency of occurrence, seasonal variation and antifungal susceptibility of opportunistic Mucorales isolated from hospital soils in Iran. *Mycoses* 64(7), 780-787.

Wagenhäuser I, Knies K, Rauschenberger V, Eisenmann M, McDonogh M, Petri N, Andres O, Flemming S, Gawlik M, Papsdorf M, Taurines R, Böhm H, Forster J, Weismann D, Weißbrich B, Dölken L, Liese J, Kurzai O, Vogel U, Krone M (2021) Clinical performance evaluation of SARS-CoV-2 rapid antigen testing in point of care usage in comparison to RT-qPCR. *EBioMedicine* 69, 103455.

Walther G, Zimmermann A, Theuersbacher J, Kaerger K, von Lilienfeld-Toal M, Roth M, Kampik D, Geerling G, Kurzai O (2021) Eye infections caused by filamentous fungi: Spectrum and antifungal susceptibility of the prevailing agents in germany. *J Fungi (Basel)* 7(7), 511.

Weber JK, Scharf S, Walther G, Flüh G, MacKenzie CR, Kondakci M, Henrich B, Kohns Vasconcelos M (2021) Detection of invasive *Trichosporon asahii* in patient blood by a fungal PCR array. *Access Microbiol* 3(12), 000285.

Arendrup MC, Friberg N, Mares M, Kahlmeter G, Meletiadis J, Kurzai O, Guinea J, Subcommittee on Antifungal Susceptibility Testing (AFST) of the ESCMID European Committee for Antimicrobial Susceptibility Testing (EUCAST) (2020) How to interpret MICs of antifungal compounds according to the revised clinical breakpoints v. 10.0 European committee on antimicrobial susceptibility testing (EUCAST). *Clin Microbiol Infect* S1198-743X(20), 30347-5. (Review)

Barber AE, Scheufen S, Walther G, Kurzai O, Schmidt V (2020) Low rate of azole resistance in cases of avian aspergillosis in Germany. *Med Mycol* 58(8), 1187-1190.

Brasch J, Beck-Jendroschek V, Walther G, Rubbel D (2020) Clinical isolates of *Trichophyton rubrum* are completely inhibited by photochemical treatment with a γ -cyclodextrin formulation of curcuminoids. *Mycoses* 63(4), 369-375.

Chow NA, Muñoz JF, Gade L, Berkow EL, Li X, Welsh RM, Forsberg K, Lockhart SR, Adam R, Alanio A, Alastruey-Izquierdo A, Althawadi S, Araúz AB, Ben-Ami R, Bharat A, Calvo B, Desnos-Olivier M, Escandón P, Gardam D, Gunturu R, Heath CH, Kurzai O, Martin R, Litvintseva AP, Cuomo CA. (2020) Tracing the evolutionary history and global expansion of *Candida auris* using population genomic analyses. *mBio* 11(2), e03364-19.

Hagemann JB, Furitsch M, Wais V, Bunjes D, Walther G, Kurzai O, Essig A (2020) First case of fatal *Rhizomucor miehei* endocarditis in an immunocompromised patient. *Diagn Microbiol Infect Dis* 98(2), 115106.

Plachouras D, Lötsch F, Kohlenberg A, Monnet DL, Kurzai O, Candida auris survey collaborative group (2020) *Candida auris*: epidemiological situation, laboratory capacity and preparedness in the European Union and European Economic Area*, January 2018 to May 2019. *Euro Surveill* 25(12), 2000240.

von Jagow B, Kurzai O, Kakkassery V (2020) Case report: Beyond the blood-retina barrier: Intravitreal caspofungin for fungal endophthalmitis. *Optom Vis Sci* 97(7), 473-476.

Wagner L, Stielow JB, de Hoog GS, Bensch K, Schwartze VU, Voigt K, Alastruey-Izquierdo A, Kurzai O, Walther G (2020) A new species concept for the clinically relevant *Mucor circinelloides* complex. *Persoonia* 44, 67-97.

Barber AE*, Weber M, Kaerger K, Linde J, Gölz H, Duerschmied D, Markert A, Guthke R, Walther G, Kurzai O (2019) Comparative genomics of serial *Candida glabrata* isolates and the rapid acquisition of echinocandin resistance during therapy. *Antimicrob Agents Chemother* 63(2), e01628-18.

Burow K, Grawunder A, Harpke M, Pietschmann S, Ehrhardt R, Wagner L, Voigt K, Merten D, Büchel G, Kothe E (2019) Microbiomes in an acidic rock-water cave system. *FEMS Microbiol Lett* 366(13), fnz167.

Guinea J, Verweij PE, Meletiadis J, Mouton JW, Barchiesi F, Arendrup MC, Arikan-Akdagli S, Barchiesi F, Castanheira M, Chryssanthou E, Friberg N, Guinea J, Järv H, Klimko N, Kurzai O, Lagrou K, Lass-Flörl C, Mares M, Matos T, Meletiadis J, Moore CB, Mouton JW, Muehlethaler K, Rogers TR, Andersen CT, Velegraki A (2019) How to: EUCAST recommendations on the screening procedure E.Def 10.1 for the detection of azole resistance in *Aspergillus fumigatus* isolates using four-well azole-containing agar plates. *Clin Microbiol Infect* 25(6), 681-687. (Review)

Hamprecht A, Barber AE, Mellinghoff SC, Thelen P, Walther G, Yu Y, Neurgaonkar P, Dandekar T, Cornely OA, Martin R, Kurzai O (2019) *Candida auris* in germany and previous exposure to foreign healthcare. *Emerg Infect Dis* 25(9), 1763-1765.

Hassan MIA*, Cseresnyes Z*, Al-Zaben N, Dahse HM, Vilela de Oliveira RJ, Walther G, Voigt K**, Figge MT**; *shared first authors; ** authors contributed equally (2019) The geographical region of origin determines the phagocytic vulnerability of *Lichtheimia* strains. *Environ Microbiol* 21(12), 4563-4581.

Nesseler A, Schauerte N, Geiger C, Kaerger K, Walther G, Kurzai O, Eisenberg T (2019) *Sporothrix humicola* (Ascomycota: Ophiostomatales) - A soil-borne fungus with pathogenic potential in the eastern quoll (*Dasyurus viverrinus*). *Med Mycol Case Rep* 25, 39-44.

Pérez-Hansen A, Lass-Flörl C, Lackner M, Aigner M, Alastruey-Izquierdo A, Arikan-Akdagli S, Bader O, Becker K, Boekhout T, Buzina W, Cornely OA, Hamal P, Kidd SE, Kurzai O, Lagrou K, Lopes Colombo A, Mares M, Masoud H, Meis JF, Oliveri S, Rodloff AC, Orth-Höller D, Guerrero-Lozano I, Sanguinetti M, Segal E, Taj-Aldeen SJ, Tortorano AM, Trovato L, Walther G, Willinger B (2019) Antifungal susceptibility profiles of rare ascomycetous yeasts. *J Antimicrob Chemother* 74(9), 2649-2656.

Roth M, Daas L, Renner-Wilde A, Cvetkova-Fischer N, Saeger M, Herwig-Carl M, Matthaei M, Fekete A, Kakkassery V, Walther G, von Lilienfeld-Toal M, Mertens C, Lenk J, Mehlan J, Fischer C, Fuest M, Kroll S, Bayoudh W, Viestenz A, Frings A, MacKenzie CR, Messmer EM, Seitz B, Kurzai O, Geerling G (2019) Das Deutsche Pilz-Keratitis-Register: Erste Ergebnisse einer multizentrischen Erhebung [The german keratomycosis registry: Initial results of a multicenter survey]. *Ophthalmologe* 116(10), 957-966.

Springer J, Walther G, Rickerts V, Hamprecht A, Willinger B, Teschner D, Einsele H, Kurzai O, Loeffler J (2019) Detection of *fusarium* species in clinical specimens by probe-based real-time PCR. *J Fungi (Basel)* 5(4), 105.

von Lilienfeld-Toal M, Wagener J, Einsele H, Cornely OA, Kurzai O (2019) Invasive fungal infection. *Dtsch Arztebl Int* 116(16), 271-278. (Review)

Wagener J, Kurzai O (2019) *Candida auris* – Steckbrief eines neuen Pilzes. *Deutsches Ärzteblatt*

Wagner L, de Hoog S, Alastrauey-Izquierdo A, Voigt K, Kurzai O, Walther G (2019) A revised species concept for opportunistic *Mucor* species reveals species-specific antifungal susceptibility profiles. *Antimicrob Agents Chemother* 63(8), e00653-19.

Wagner L, Stielow JB, de Hoog GS, Bensch K, Schwartze VU, Voigt K, Alastrauey-Izquierdo A, Kurzai O, Walther G (2019) A new species concept for the clinically relevant *Mucor circinelloides* complex. *Persoonia - Molecular Phylogeny and Evolution of Fungi* 42, 67-97.

Walther G, Wagner L, Kurzai O (2019) Updates on the taxonomy of mucorales with an emphasis on clinically important taxa. *J Fungi (Basel)* 5(4), 106. (Review)

Walther G, Wagner L, Kurzai O (2019) Outbreaks of mucorales and the species involved. *Mycopathologia* 185(5), 765-781. (Review)

Bloos F, Held J, Schlattmann P, Brillinger N, Kurzai O, Cornely OA, Thomas-Rüddel D (2018) (1,3)- β -D-glucan-based diagnosis of invasive *Candida* infection versus culture-based diagnosis in patients with sepsis and with an increased risk of invasive *Candida* infection (CandiSep): Study protocol for a randomized controlled trial. *Trials* 19(1), 472.

Geißel B, Loiko V, Klugherz I, Zhu Z, Wagener N, Kurzai O, van den Hondel CAMJJ, Wagener J (2018) Azole-induced cell wall carbohydrate patches kill *Aspergillus fumigatus*. *Nat Commun* 9(1), 3098.

Habbe KJ, Frings A, Schrader S, Roth M, MacKenzie C, Walther G, Kurzai O, Geerling G (2018) *Tintelnotia destructans*: Ein neuer Feind vor dem Tore [*Tintelnotia destructans*: new enemy at the gates]. *Ophthalmologe* 115(11), 948-950.

Jahreis S, Böttcher S, Hartung S, Rachow T, Rummler S, Dietl AM, Haas H, Walther G, Hochhaus A, von Lilienfeld-Toal M (2018) Human MAIT cells are rapidly activated by *Aspergillus* spp. in an APC-dependent manner. *Eur J Immunol* 48(10), 1698-1706.

Kohlenberg A, Struelens MJ, Monnet DL, Plachouras D, The Candida Auris Survey Collaborative Group (2018) *Candida auris*: Epidemiological situation, laboratory capacity and preparedness in European Union and European economic area countries, 2013 to 2017. *Euro Surveill* 23(13), 18-00136.

Leo F, Zeh M, Prothmann A, Kurzai O, Kurz S, Grohé C (2018) Tracheal, laryngeal and pulmonary mucormycosis followed by organizing pneumonia in a patient with adult onset still's disease. *Med Mycol Case Rep* 20, 28-32.

Ruhnke M, Behre G, Buchheidt D, Christopeit M, Hamprecht A, Heinz W, Heussel CP, Horger M, Kurzai O, Karthaus M, Löffler J, Maschmeyer G, Penack O, Rieger C, Rickerts V, Ritter J, Schmidt-Hieber M, Schuelper N, Schwartz S, Ullmann A, Vehreschild JJ, von Lilienfeld-Toal M, Weber T, Wolf HH (2018) Diagnosis of invasive fungal diseases in haematology and oncology: 2018 update of the recommendations of the infectious diseases working party of the German society for hematology and medical oncology (AGIHO). *Mycoses* 61(11), 796-813. (Review)

Weber M, Schaer J, Walther G, Kaerger K, Steinmann J, Rath PM, Spiess B, Buchheidt D, Hamprecht A, Kurzai O (2018) FunResDB-A web resource for genotypic susceptibility testing of *Aspergillus fumigatus*. *Med Mycol* 56(1), 117-120.

Wijayawardene NN, Pawłowska J, Letcher PM, Kirk PM, Humber RA, Schussler A, Wrzosek M, Muszewska A, Okrasinska A, Istel L, Gesiorska A, Mungai P, Lateef AA, Rajeshkumar KC, Singh RV, Radek R, Walther G, Wagner L, Walker C, Wijesundara DSA, Papizadeh M, Dolatabadi S, Shenoy BD, Tokarev YS, Lumyong S, Hyde KD (2018) Notes for genera: basal clades of Fungi (including Aphelidiomycota, Basidiobolomycota, Blastocladiomycota, Calcarisporiellomycota, Caulochytriomycota, Chytridiomycota, Entomophthoromycota, Glomeromycota, Kickxellomycota, Monoblepharomycota, Mortierellomycota. *Fungal Divers* Volume 92(Issue 1), 43-129.

Lima DX, Souza-Motta CM, Wagner L, Voigt K, de Souza CAF, de Oliveira RJV, da Silva GA, de Azevedo Santiago ALCM, Walther G (2017) *Circinella simplex* - a misapplied name of *Mucor circinatus* sp. nov. *Phytotaxa* 329(3), 269.

Valiante V, Mattern DJ, Schüffler A, Horn F, Walther G, Scherlach K, Petzke L, Dickhaut J, Guthke R, Hertweck C, Nett M, Thines E, Brakhage AA (2017) Discovery of an Extended Austinoid Biosynthetic Pathway in *Aspergillus calidoustus*. *ACS Chem Biol* 12(5), 1227-1234.

Voigt K, Wolf T, Ochsenreiter K, Nagy G, Kaerger K, Shelest E, Papp T (2016) 15 Genetic and metabolic aspects of primary and secondary metabolism of the Zygomycetes In: Hoffmeister D. (eds) Biochemistry and Molecular Biology (ed.) The Mycota Vol. III: 3rd edition. III, pp. 361-385. Springer Verlag, Berlin, Heidelberg, New York. (Review)

Fliegerová K, Kaerger K, Kirk PM, Voigt K (2015) Rumen fungi In: Puniya AK, Singh R, Kamra DN (eds.) Rumen Microbiology: From Evolution to Revolution Chapter 7, pp. 97-112. Springer New Dehli, New Delhi, Heidelberg, New York, Dordrecht, London. ISBN: 978-81-322-2400.

Horn F, Linde J, Mattern DJ, Walther G, Guthke R, Brakhage AA, Valiante V (2015) Draft Genome Sequence of the Fungus *Penicillium brasiliense* MG11. *Genome Announc* 3(5), e00724-15.

Huyke J, Martin R, Walther G, Weber M, Kaerger K, Bougnoux ME, Elias J, Kurzai O (2015) Candida albicans bloodstream isolates in a German university hospital are genetically heterogenous and susceptible to commonly used antifungals. *Int J Med Microbiol* 305(7), 742-747.

Münchberg U, Wagner L, Rohrer C, Voigt K, Rösch P, Jahreis G, Popp J (2015) Quantitative assessment of the degree of lipid unsaturation in intact *Mortierella* by Raman microspectroscopy. *Anal Bioanal Chem* 407(12), 3303-3311.

Schwartz VU, Hoffmann K (2015) *Lichtheimia* (ex *Absidia*). In: Robert Russell Monteith Paterson, Nelson Lima (eds.) Molecular Biology of Food and Water Borne Mycotoxicogenic and Mycotic Fungi pp. 355-374. CRC Press Inc..

Dolatabadi S, de Hoog G.S., Meis J. F., Walther G (2014) Species boundaries and nomenclature of Rhizopus arrhizus (syn. R. oryzae) *Mycoses* 57(s3), 108-127.

Dolatabadi S, Walther G, Gerrits van den Ende A.H.G., de Hoog G.S. (2014) Diversity and delimitation of Rhizopus microsporus *Fungal Diversity* 64, 145-163.

Martínez-Ramírez JA, Walther G, Peters FT (2014) Studies on drug metabolism by fungi colonizing decomposing human cadavers. Part II: biotransformation of five model drugs by fungi isolated from post-mortem material. *Drug Testing and Analysis* [Epub ahead of print]

Münchberg U, Wagner L, Spielberg ET, Voigt K, Rösch P, Popp J (2013) Spatially resolved

investigation of the oil composition in single intact hyphae of *Mortierella* spp. with micro-Raman spectroscopy. *Biochim Biophys Acta* 1831(2), 341-349.

Wagner L, Stielow B, Hoffmann K, Petkovits T, Papp T, Vágvölgyi C, de Hoog GS, Verkley G, Voigt K (2013) A comprehensive molecular phylogeny of the Mortierellales (*Mortierellomycotina*) based on nuclear ribosomal DNA. *Persoonia* 30, 77-93.

Petkovits T, Nagy LG, Hoffmann K, Wagner L, Nyilasi I, Griebel T, Schnabelrauch D, Vogel H, Voigt K, Vágvölgyi C, Papp T (2011) Data partitions, Bayesian analysis and phylogeny of the zygomycetous fungal family *Mortierellaceae*, inferred from nuclear ribosomal DNA sequences. *PLOS One* 6(11), e27507.

*equal contribution #corresponding author