

Publications

Chang TH, Cardona Gloria Y, Hellmann MJ, Richardo T, Greve CL, Le Roy D, Roger T, Bork F, Bugl S, Jakob J, Sonnberger J, Kasper L, Hube B, Pusch S, Gow NAR, Sørlie M, Tøndervik A, Moerschbacher BM, Weber ANR (2025) Transkingdom mechanism of MAMP generation by chitotriosidase feeds oligomeric chitin from fungal pathogens and allergens into TLR2-mediated innate immune sensing. *Front Immunol* 16, 1497174.

Jia LJ[#], Bernal FA, Soehnlein J, Sonnberger J, Heineking I, Rafiq M, Cseresnyes Z, Kage F, Schmidt F, Zaher R, Hortschansky P, Chaudhary S, Gong X, Schirawski J, Figge MT, Hube B, Brakhage AA[#] (2025) Convergent evolution of a fungal effector enabling phagosome membrane penetration. *bioRxiv* [Preprint]

Lee S, Tsavou A, Zarnowski R, Pforte R, Allert S, Krüger T, Kniemeyer O, Brakhage AA, Bui TTT, Andes DR, Richardson JP, Hube B, Naglik JR (2025) *Candida albicans* biofilm extracellular vesicles deliver candidalysin to epithelial cell membranes and induce host cell responses. *Infect Immun*, e0040424.

Makambi WK, Chiu VL, Kasper L, Hube B, Karlsson AJ (2025) Role of amino acid substitutions on proteolytic stability of histatin 5 in the presence of secreted aspartyl proteases and salivary proteases. *Protein Sci* 34(1), e70011.

Rosati D, Valentine M, Bruno M, Pradhan A, Dietschmann A, Jaeger M, Leaves I, van de Veerdonk FL, Joosten LAB, Roy S, Stappers MHT, Gow NAR, Hube B, Brown AJP, Gresnigt MS, Netea MG (2025) Lactic acid in the vaginal milieu modulates the *Candida*-host interaction. *Virulence* 16(1), 2451165.

Schille TB, Sprague JL, Naglik JR, Brunke S, Hube B (2025) Commensalism and pathogenesis of *Candida albicans* at the mucosal interface. *Nat Rev Microbiol*,

Alonso-Roman R, Mosig AS, Figge MT, Papenfort K, Eggeling C, Schacher FH, Hube B[#], Gresnigt MS (2024) Organ-on-chip models for infectious disease research. *Nat Microbiol* 9(4), 891-904. (Review)

Jaeger M, Dietschmann A, Austermeier S, Dinçer S, Porschitz P, Vornholz L, Maas RJA, Sprenkeler EGG, Ruland J, Wirtz S, Azam T, Joosten LAB, Hube B, Netea MG, Dinarello CA, Gresnigt MS (2024) Alpha1-antitrypsin impacts innate host-pathogen interactions with *Candida albicans* by stimulating fungal filamentation. *Virulence* 15(1), 2333367.

Kaden T, Alonso-Román R, Stallhofer J, Gresnigt MS, Hube B, Mosig AS (2024) Leveraging organ-on-chip models to investigate host-microbiota dynamics and targeted therapies for inflammatory bowel disease. *Adv Healthc Mater*, e2402756. (Review)

Kaden T^{*}, Alonso-Roman R^{*}, Akbarimoghaddam P^{*}, Mosig AS, Graf K, Raasch M, Hoffmann B, Figge MT[#], Hube B[#], Gresnigt MS[#] (2024) Modeling of intravenous caspofungin administration using an intestine-on-chip reveals altered *Candida albicans* microcolonies and pathogenicity. *Biomaterials* 307, 122525.

Katsipoulaki M, Stappers MHT, Malavia-Jones D, Brunke S, Hube B, Gow NAR (2024) *Candida albicans* and *Candida glabrata*: global priority pathogens. *Microbiol Mol Biol Rev* 88(2), e0002123. (Review)

King WR, Singer J, Warman M, Wilson D, Hube B, Lager I, Patton-Vogt J (2024) The glycerophosphocholine acyltransferase Gpc1 contributes to phosphatidylcholine biosynthesis, long-term viability, and embedded hyphal growth in *Candida albicans*. *J Biol Chem* 300(1), 105543.

Liang SH, Sircaik S, Dainis J, Kakade P, Penumutthu S, McDonough LD, Chen YH, Frazer C, Schille TB, Allert S, Elshafee O, Hänel M, Mogavero S, Vaishnav S, Cadwell K, Belenky P, Perez JC, Hube B, Ene IV, Bennett RJ (2024) The hyphal-specific toxin candidalysin promotes fungal gut commensalism. *Nature* 627(8004), 620-627.

Müller R, König A, Groth S, Zarnowski R, Visser C, Handrianz T, Maufrais C, Krüger T, Himmel M, Lee S, Priest EL, Yildirim D, Richardson JP, Blango MG, Bougnoux ME, Kniemeyer O, d'Enfert C, Brakhage AA, Andes DR, Trümper V, Nehls C, Kasper L, Mogavero S, Gutschmann T, Naglik JR, Allert S, Hube B (2024) Secretion of the fungal toxin candidalysin is dependent on conserved precursor peptide sequences. *Nat Microbiol* 9(3), 669-683.

Pekmezović M, Hube B, Gresnigt MS (2024) Pathogenicity strategies of *Candida* species during interactions with epithelial cells. In: Brakhage AA, Kniemeyer O, Zipfel PF (eds.) *The Mycota - Human and Animal Relationships* 3. 6, pp. 35-49. Springer, Cham. ISBN: 978-3-031-64852. (Review)

Schimanski J, Gresnigt MS, Brunner E, Werz O, Hube B, Garscha U (2024) Hyphal-associated protein expression is crucial for *Candida albicans*-induced eicosanoid biosynthesis in immune cells. *Eur J Immunol* 54(3), e2350743.

Sekeresova Kralova J, Donic C, Dassa B, Livyatan I, Jansen PM, Ben-Dor S, Fidel L, Trzebanski S, Narunsky-Haziza L, Asraf O, Brenner O, Dafni H, Jona G, Boura-Halfon S, Stettner N, Segal E, Brunke S, Pilpel Y, Straussman R, Zeevi D, Bacher P, Hube B, Shlezinger N, Jung S (2024) Competitive fungal commensalism mitigates candidiasis pathology. *J Exp Med* 221(5), e20231686.

Sprague JL, Schille TB, Allert S, Trümper V, Lier A, Großmann P, Priest EL, Tsavou A, Panagiotou G, Naglik JR, Wilson D, Schäuble S, Kasper L^{*}, Hube B[#] (2024) *Candida albicans* translocation through the intestinal epithelial barrier is promoted by fungal zinc acquisition and limited by NFκB-mediated barrier protection. *PLOS Pathog* 20(3), e1012031.

Stanca SE, Mogavero S, Fritzsche W, Krafft C, Hube B, Popp J (2024) Isotope labeled 3D-Raman confocal imaging and atomic force microscopy study on epithelial cells interacting with the fungus *Candida albicans*. *Nanomedicine* 59, 102750.

Tesfamariam M, Vij R, Trümper V, Hube B, Brunke S (2024) Shining a light on *Candida*-induced epithelial damage with a luciferase reporter. *mSphere* 9(11), e0050924.

Valentine M^{*}, Rudolph P^{*}, Dietschmann A, Tsavou A, Mogavero S, Lee S, Priest EL, Zhurgenbayeva G, Jablonowski N, Timme S, Eggeling C, Allert S, Dolk E, Naglik JR, Figge MT, Gresnigt MS[#], Hube B[#] (2024) Nanobody-mediated neutralization of candidalysin prevents epithelial damage and inflammatory responses that drive vulvovaginal candidiasis pathogenesis. *mBio* 15(3), e0340923.

Wickramasinghe DN, Lyon CM, Lee S, Hepworth OW, Priest EL, Maufrais C, Ryan AP, Permal E, Sullivan D, McManus BA, Hube B, Butler G, d'Enfert C, Naglik JR, Richardson JP (2024) Variations in candidalysin amino acid sequence influence toxicity and host responses. *mBio* 15(8), e0335123.

Case NT, Westman J, Hallett MT, Plumb J, Farheen A, Maxson ME, MacAlpine J, Liston SD, Hube B, Robbins N, Whitesell L, Grinstein S, Cowen LE (2023) Respiration supports intraphagosomal filamentation and escape of *Candida albicans* from macrophages. *mBio* 14(6), e0274523.

Götze S, Vij R, Burow K, Thome N, Urvat 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.

Lange T, Kasper L, Gresnigt MS, Brunke S, Hube B (2023) "Under Pressure" - How fungi evade, exploit, and modulate cells of the innate immune system. *Semin Immunol* 66, 101738. (Review)

Martini GR, Tikhonova E, Rosati E, DeCelie MB, Sievers LK, Tran F, Lessing M, Bergfeld A, Hinz S, Nikolaus S, Kümpers J, Matysiak A, Hofmann P, Saggau C, Schneiders S, Kamps AK, Jacobs G, Lieb W, Maul J, Siegmund B, Seegers B, Hinrichsen H, Oberg HH, Wesch D, Bereswill S, Heimesaat MM, Rupp J, Kniemeyer O, Brakhage AA, Brunke S, Hube B, Aden K, Franke A, Iliev ID, Scheffold A, Schreiber S, Bacher P (2023) Selection of cross-reactive T cells by commensal and food-derived yeasts drives cytotoxic TH1 cell responses in Crohn's disease. *Nat Med* 29(10), 2602-2614.

Schwarz C, Eschenhagen P, Schmidt H, Hohnstein T, Iwert C, Grehn C, Roehmel J, Steinke E, Stahl M, Lozza L, Tikhonova E, Rosati E, Stervbo U, Babel N, Mainz JG, Wisplinghoff H, Ebel F, Jia LJ, Blango MG, Hortschansky P, Brunke S, Hube B, Brakhage AA, Kniemeyer O, Scheffold A, Bacher P (2023) Antigen specificity and cross-reactivity drive functionally diverse anti-*Aspergillus fumigatus* T cell responses in cystic fibrosis. *J Clin Invest* 133(5), e161593.

Seelbinder B[#], Lohinai Z^{*}, Vazquez-Urbe R, Brunke S, Chen X, Mirhakkak M, Lopez-Escalera S, Dome B, Megyesfalvi Z, Berta J, Galffy G, Dulka E, Wellejus A, Weiss GJ, Bauer M, Hube B, Sommer MOA, Panagiotou G (2023) *Candida* expansion in the gut of lung cancer patients associates with an ecological signature that supports growth under dysbiotic conditions. *Nat Commun* 14(1), 2673.

Sonnberger J, Kasper L, Lange T, Brunke S, Hube B (2023) "We've got to get out"-Strategies of human pathogenic fungi to escape from phagocytes. *Mol Microbiol* 121(3), 341-358. (Review)

Unger L, Skoluda S, Backman E, Amulic B, Ponce-Garcia FM, Etiaba CN, Yellagunda S, Krüger R, von Bernuth H, Bylund J, Hube B, Naglik JR, Urban CF (2023) *Candida albicans* induces neutrophil extracellular traps and leucotoxic hypercitrullination via candidalysin. *EMBO Rep* 24(11), e57571.

Wu Y, Du S, Bimler LH, Mauk KE, Lortal L, Kichik N, Griffiths JS, Osicka R, Song L, Polsky K, Kasper L, Sebo P, Weatherhead J, Knight JM, Kheradmand F, Zheng H, Richardson JP, Hube B, Naglik JR, Corry DB (2023) Toll-like receptor 4 and CD11b expressed on microglia coordinate eradication of *Candida albicans* cerebral mycosis. *Cell Rep* 42(10), 113240.

Allert S, Schulz D, Kämmer P, Großmann P, Wolf T, Schäuble S, Panagiotou G, Brunke S, Hube B (2022) From environmental adaptation to host survival: Attributes that mediate pathogenicity of *Candida auris*. *Virulence* 13(1), 191-214.

Alonso-Roman R, Last A, Mirhakkak MH, Sprague JL, Möller L, Großmann P, Graf K, Gratz R,

- Mogavero S, Vylkova S, Panagiotou G, Schäuble S, Hube B, Gresnigt MS (2022) *Lactobacillus rhamnosus* colonisation antagonizes *Candida albicans* by forcing metabolic adaptations that compromise pathogenicity. *Nat Commun* 13(1), 3192.
- Lapaquette P, Ducreux A, Basmaciyan L, Paradis T, Bon F, Bataille A, Winckler P, Hube B, d'Enfert C, Esclatine A, Dubus E, Bringer MA, Morel E, Dalle F (2022) Membrane protective role of autophagic machinery during infection of epithelial cells by *Candida albicans*. *Gut Microbes* 14(1), 2004798.
- Li XV, Leonardi I, Putzel GG, Semon A, Fiers WD, Kusakabe T, Lin WY, Gao IH, Doron I, Gutierrez-Guerrero A, DeCelie MB, Carriche GM, Mesko M, Yang C, Naglik JR, Hube B, Scherl EJ, Iliev ID (2022) Immune regulation by fungal strain diversity in inflammatory bowel disease. *Nature* 603(7902), 672-678.
- Mogavero S, Höfs S, Lauer AN, Müller R, Brunke S, Allert S, Gerwien F, Groth S, Dolk E, Wilson D, Gutschmann T, Hube B (2022) Candidalysin is the hemolytic factor of *Candida albicans*. *Toxins (Basel)* 14(12), 874.
- Richardson JP, Brown R, Kichik N, Lee S, Priest E, Mogavero S, Maufrais C, Wickramasinghe DN, Tsavou A, Kotowicz NK, Hepworth OW, Gallego-Cortés A, Ponde NO, Ho J, Moyes DL, Wilson D, D'Enfert C, Hube B, Naglik JR (2022) Candidalysins are a new family of cytolytic fungal peptide toxins. *mBio* 13(1), e0351021.
- Siscar-Lewin S, Hube B, Brunke S (2022) Emergence and evolution of virulence in human pathogenic fungi. *Trends Microbiol* 30(7), 693-704. (Review)
- Sprague JL, Kasper L, Hube B (2022) From intestinal colonization to systemic infections: *Candida albicans* translocation and dissemination. *Gut Microbes* 14(1), 2154548. (Review)
- Westman J, Plumb J, Licht A, Yang M, Allert S, Naglik JR, Hube B, Grinstein S, Maxson ME (2022) Calcium-dependent ESCRT recruitment and lysosome exocytosis maintain epithelial integrity during *Candida albicans* invasion. *Cell Rep* 38(1), 110187.
- Yao X, Höppener C, Schneidewind H, Hoepfener S, Tang Z, Buchholz A, König A, Mogavero S, Diegel M, Dellith J, Turchanin A, Plass W, Hube B, Deckert V (2022) Targeted suppression of peptide degradation in Ag-based surface-enhanced raman spectra by depletion of hot carriers. *Small* 18(52), e2205080.
- Alonso-Monge R, Gresnigt MS, Román E, Hube B, Pla J (2021) *Candida albicans* colonization of the gastrointestinal tract: A double-edged sword. *PLOS Pathog* 17(7), e1009710.
- Austermeier S, Pekmezović M, Porschitz P, Lee S, Kichik N, Moyes DL, Ho J, Kotowicz NK, Naglik JR, Hube B, Gresnigt MS (2021) Albumin neutralizes hydrophobic toxins and modulates *Candida albicans* pathogenicity. *mBio* 12(3), e0053121.
- Blagojevic M, Camilli G, Maxson M, Hube B, Moyes DL, Richardson JP, Naglik JR (2021) Candidalysin triggers epithelial cellular stresses that induce necrotic death. *Cell Microbiol* 23(10), e13371.
- d'Enfert C, Kaune AK, Alaban LR, Chakraborty S, Cole N, Delavy M, Kosmala D, Marsaux B, Fróis-Martins R, Morelli M, Rosati D, Valentine M, Xie Z, Emritloll Y, Warn PA, Bequet F, Bougnoux ME, Bornes S, Gresnigt MS, Hube B, Jacobsen ID, Legrand M, Leibundgut-Landmann S, Manichanh

C, Munro CA, Netea MG, Queiroz K, Roget K, Thomas V, Thorat C, Van den Abbeele P, Walker AW, Brown AJP (2021) The impact of the Fungus-Host-Microbiota interplay upon *Candida albicans* infections: current knowledge and new perspectives. *FEMS Microbiol Rev* 45(3), fuaa060. (Review)

Ferreira-Gomes M, Wich M, Böde S, Hube B, Jacobsen ID, Jungnickel B (2021) B cell recognition of *Candida albicans* hyphae via TLR 2 promotes IgG1 and IL-6 secretion for TH17 differentiation. *Front Immunol* 12, 698849.

Fischer J, Gresnigt MS, Werz O, Hube B, Garscha U (2021) *Candida albicans*-induced leukotriene biosynthesis in neutrophils is restricted to the hyphal morphology. *FASEB J* 35(10), e21820.

Graf K, Hube B, Brunke S (2021) Experimental evolution of *Candida* by serial passaging in host cells. *Methods Mol Biol* 2260, 145-154.

Last A, Maurer M, Mosig AS, Gresnigt MS, Hube B (2021) *In vitro* infection models to study fungal-host interactions. *FEMS Microbiol Rev* 45(5), fuab005. (Review)

Liu J, Willems HME, Sansevere EA, Allert S, Barker KS, Lowes DJ, Dixon AC, Xu Z, Miao J, DeJarnette C, Tourneau H, Palmer GE, Richardson JP, Barrera FN, Hube B, Naglik JR, Peters BM (2021) A variant ECE1 allele contributes to reduced pathogenicity of *Candida albicans* during vulvovaginal candidiasis. *PLOS Pathog* 17(9), e1009884.

Mirhakkak M, Schäuble S, Klassert T, Brunke S, Brandt P, Loos D, Uribe R, de Oliveira Lino FS, Ni Y, Vylkova S, Slevogt H, Hube B, Weiss G, Sommer M, Panagiotou G[#] (2021) Metabolic modeling predicts specific gut bacteria as key determinants for *Candida albicans* colonization levels. *ISME J* 15(5), 1257-1270.

Mogavero S, Hube B (2021) *Candida albicans* Interaction with oral epithelial cells: Adhesion, invasion and damage assays. *Methods Mol Biol* 2260, 133-143. (Review)

Mogavero S, Sauer FM, Brunke S, Allert S, Schulz D, Wisgott S, Jablonowski N, Elshafee O, Krüger T, Kniemeyer O, Brakhage AA, Naglik JR, Dolk E, Hube B (2021) Candidalysin delivery to the invasion pocket is critical for host epithelial damage induced by *Candida albicans*. *Cell Microbiol* 23(10), e13378.

Papon N, Naglik JR, Hube B, Goldman GH (2021) Fungal pathogenesis: A new venom. *Curr Biol* 31(8), R391-R394. (Review)

Pekmezovic M, Hovhannisyan H, Gresnigt MS, Iracane E, Oliveira-Pacheco J, Siscar-Lewin S, Seemann E, Qualmann B, Kalkreuter T, Müller S, Kamradt T, Mogavero S, Brunke S, Butler G, Gabaldón T, Hube B (2021) *Candida* pathogens induce protective mitochondria-associated type I interferon signalling and a damage-driven response in vaginal epithelial cells. *Nat Microbiol* 6(5), 643-657.

Pekmezovic M, Kaune AK, Austermeier S, Hitzler SUJ, Mogavero S, Hovhannisyan H, Gabaldón T, Gresnigt MS, Hube B (2021) Human albumin enhances the pathogenic potential of *Candida glabrata* on vaginal epithelial cells. *PLOS Pathog* 17(10), e1010037.

Radosa S, Sprague JL, Lau SH, Tóth R, Linde J, Krüger T, Sprenger M, Kasper L, Westermann M, Kniemeyer O, Hube B, Brakhage AA, Gácsér A, Hillmann F (2021) The fungivorous amoeba

Protostelium aurantium targets redox homeostasis and cell wall integrity during intracellular killing of *Candida parapsilosis*. *Cell Microbiol* 23(11), e13389.

Schaefer S, Pham TTP, Brunke S, Hube B, Jung K, Lenardon MD, Boyer C (2021) Rational design of an antifungal polyacrylamide library with reduced host-cell toxicity. *ACS Appl Mater Interfaces* 13(23), 27430-27444.

Siscar-Lewin S, Gabaldón T, Aldejohann AM, Kurzai O, Hube B, Brunke S (2021) Transient mitochondria dysfunction confers fungal cross-resistance against phagocytic killing and fluconazole. *mBio* 12(3), e0112821.

Sprenger M, Brunke S, Hube B, Kasper L (2021) A TRP1-marker-based system for gene complementation, overexpression, reporter gene expression, and gene modification in *Candida glabrata*. *FEMS Yeast Res* 20(8), foaa066.

Vij R, Hube B, Brunke S (2021) Uncharted territories in the discovery of antifungal and antivirulence natural products from bacteria. *Comput Struct Biotechnol J* 19, 1244-1252. (Review)

Wich M, Greim S, Ferreira-Gomes M, Krüger T, Kniemeyer O, Brakhage AA, Jacobsen ID, Hube B, Jungnickel B (2021) Functionality of the human antibody response to *Candida albicans*. *Virulence* 12(1), 3137-3148.

Wu Y, Zeng Z, Guo Y, Song L, Weatherhead JE, Huang X, Zeng Y, Bimler L, Chang CY, Knight JM, Valladolid C, Sun H, Cruz MA, Hube B, Naglik JR, Luong AU, Kheradmand F, Corry DB (2021) *Candida albicans* elicits protective allergic responses via platelet mediated T helper 2 and T helper 17 cell polarization. *Immunity* 54(11), 2595-2610.e7..

Zhang S, Edwards TN, Mogavero S, Mathers AR, Hube B, Berman J, Bougnoux ME, D'Enfert C, Kaplan DH (2021) Adenosine triphosphate released by *Candida albicans* is associated with reduced skin infectivity. *J Invest Dermatol* 141(9), 2306-2310.

Commichau FM, Anstatt J, Krappmann S, Stegmann E, Banhart S, Papenfort K, Brunke S, Hube B, Bramkamp M, Herbert M, Sander J, Mueller JW, Wagner M, Daus ML (2020) Wettrüsten zwischen Pilz und Wirt. *BIOSpektrum* 26(3), 280-286. (Review)

Correia I, Wilson D, Hube B, Pla J (2020) Characterization of a *Candida albicans* mutant defective in all MAPKs highlights the major role of hog1 in the MAPK signaling network. *J Fungi (Basel)* 6(4), 230.

Costa ACBP, Back-Brito GN, Mayer FL, Hube B, Wilson D (2020) *Candida albicans* Mrv8, is involved in epithelial damage and biofilm formation. *FEMS Yeast Res* 20(5), foaa033.

Ho J, Wickramasinghe DN, Nikou SA, Hube B, Richardson JP, Naglik JR (2020) Candidalysin is a potent trigger of alarmin and antimicrobial peptide release in epithelial cells. *Cells* 9(3), 699.

Jung P, Mischo CE, Gunaratnam G, Spengler C, Becker SL, Hube B, Jacobs K, Bischoff M (2020) *Candida albicans* adhesion to central venous catheters: Impact of blood plasma-driven germ tube formation and pathogen-derived adhesins. *Virulence* 11(1), 1453-1465.

Kämmer P, McNamara S*, Wolf T, Conrad T, Allert S, Gerwien F, Hünninger K, Kurzai O, Guthke R, Hube B, Linde J, Brunke S (2020) Survival strategies of pathogenic *Candida* species in human

blood show independent and specific adaptations. *mBio* 11(5), e02435-20.

König A, Hube B, Kasper L (2020) The dual Function of the fungal toxin candidalysin during *Candida albicans*-macrophage interaction and virulence. *Toxins* 12(8), 469. (Review)

König A, Müller R, Mogavero S, Hube B (2020) Fungal factors involved in host immune evasion, modulation and exploitation during infection. *Cell Microbiol* 23(1), e13272. (Review)

Kumamoto CA, Gresnigt MS, Hube B (2020) The gut, the bad and the harmless: *Candida Albicans* as a commensal and opportunistic pathogen in the intestine. *Curr Opin Microbiol* 56, 7-15. (Review)

Ruben S, Garbe E, Mogavero S, Albrecht-Eckardt D, Hellwig D, Häder A, Krüger T, Gerth K, Jacobsen ID, Elshafee O, Brunke S, Hünninger K, Kniemeyer O, Brakhage AA, Morschhäuser J, Hube B, Vylkova S, Kurzai O, Martin R (2020) Ahr1 and Tup1 contribute to the transcriptional control of virulence-associated genes in *Candida albicans*. *mBio* 11(2), e00206-20.

Seelbinder B, Chen J, Brunke S, Vazquez-Urbe R, Santhanam R, Meyer AC, de Oliveira Lino FS, Chan KF, Loos D, Imamovic L, Tsang CC, Lam RP, Sridhar S, Kang K, Hube B, Woo PCY, Sommer MOA, Panagiotou G (2020) Antibiotics create a shift from mutualism to competition in human gut communities with a longer-lasting impact on fungi than bacteria. *Microbiome* 8(1), 133.

Sprenger M, Hartung TS, Allert S, Wisgott S, Niemiec MJ, Graf K, Jacobsen ID, Kasper L, Hube B (2020) Fungal biotin homeostasis is essential for immune evasion after macrophage phagocytosis and virulence. *Cell Microbiol* 22(7), e13197.

Westman J, Walpole GFW, Kasper L, Xue BY, Elshafee O, Hube B, Grinstein S (2020) Lysosome fusion maintains phagosome integrity during fungal infection. *Cell Host Microbe* 28(6), 798-812.

Arastehfar A, Boekhout T, Butler G, De Cesare GB, Dolk E, Gabaldón T, Hafez A, Hube B, Hagen F, Hovhannisyan H, Iracane E, Kostrzewa M, Lackner M, Lass-Flörl C, Llorens C, Mixão V, Munro C, Oliveira-Pacheco J, Pekmezovic M, Pérez-Hansen A, Sanchez AR, Sauer FM, Sparbier K, Stavrou AA, Vanechoutte M, Vatanhenassan M (2019) Recent trends in molecular diagnostics of yeast infections: from PCR to NGS. *FEMS Microbiol Rev* 43(5), 517-547. (Review)

Bacher P, Hohnstein T, Beerbaum E, Röcker M, Blango MG, Kaufmann S, Röhmel J, Eschenhagen P, Grehn C, Seidel K, Rickerts V, Lozza L, Stervbo U, Nienen M, Babel N, Milleck J, Assenmacher M, Cornely OA, Ziegler M, Wisplinghoff H, Heine G, Worm M, Siegmund B, Maul J, Creutz P, Tabeling C, Ruwwe-Glösenkamp C, Sander LE, Knosalla C, Brunke S, Hube B, Kniemeyer O, Brakhage AA, Schwarz C, Scheffold A (2019) Human anti-fungal Th17 immunity and pathology rely on cross-reactivity against *Candida albicans*. *Cell* 176(6), 1340-1355.

Chu H, Duan Y, Lang S, Jiang L, Wang Y, Llorente C, Liu J, Mogavero S, Bosques-Padilla F, Abalde JG, Vargas V, Tu XM, Yang L, Hou X, Hube B, Stärkel P, Schnabl B (2019) The *Candida albicans* exotoxin Candidalysin promotes alcohol-associated liver disease. *J Hepatol* 72(3), 391-400.

Correia I, Prieto D, Román E, Wilson D, Hube B, Alonso-Monge R, Pla J (2019) Cooperative role of MAPK pathways in the interaction of *Candida albicans* with the host Epithelium. *Microorganisms* 8(1), 48.

Drummond RA, Swamydas M, Oikonomou V, Zhai B, Dambuza IM, Schaefer BC, Bohrer AC,

Mayer-Barber KD, Lira SA, Iwakura Y, Filler SG, Brown GD, Hube B, Naglik JR, Hohl TM, Lionakis MS (2019) CARD9+ microglia promote antifungal immunity via IL-1 β - and CXCL1-mediated neutrophil recruitment. *Nat Immunol* 20(5), 559-570.

Fischer D, Gessner G, Fill TP, Barnett R, Tron K, Dornblut K, Kloss F, Stallforth P, Hube B, Heinemann SH, Hertweck C, Scherlach K, Brunke S (2019) Disruption of membrane integrity by the bacteria-derived antifungal jagaricin. *Antimicrob Agents Chemother* 63(9), e00707-19.

Graf K, Last A, Gratz R, Allert S, Linde S, Westermann M, Gröger M, Mosig AS, Gresnigt MS, Hube B (2019) Keeping *Candida* commensal: How lactobacilli antagonize pathogenicity of *Candida albicans* in an *in vitro* gut model. *Dis Model Mech* 12(9), dmm039719.

Ho J, Yang X, Nikou SA, Kichik N, Donkin A, Ponde NO, Richardson JP, Gratacap RL, Archambault LS, Zwirner CP, Murciano C, Henley-Smith R, Thavaraj S, Tynan CJ, Gaffen SL, Hube B, Wheeler RT, Moyes DL, Naglik JR (2019) Candidalysin activates innate epithelial immune responses via epidermal growth factor receptor. *Nat Commun* 10(1), 2297.

Ikonomova SP, Moghaddam-Taaheri P, Wang Y, Doolin MT, Stroka KM, Hube B, Karlsson AJ (2019) Effects of histatin 5 modifications on antifungal activity and kinetics of proteolysis. *Protein Sci* 29(2), 480-493.

Ishchuk OP, Ahmad KM, Koruza K, Bojanovič K, Sprenger M, Kasper L, Brunke S, Hube B, Säll T, Hellmark T, Gullstrand B, Brion C, Freel K, Schacherer J, Regenber B, Knecht W, Piškur J (2019) RNAi as a tool to study virulence in the pathogenic yeast *Candida glabrata*. *Front Microbiol* 10, 1679.

Maurer M, Gresnigt MS, Last A, Wollny T, Berlinghof F, Pospich R, Cseresnyes Z, Medyukhina A, Graf K, Gröger M, Raasch M, Siwczak F, Nietzsche S, Jacobsen ID, Figge MT, Hube B, Huber O, Mosig AS (2019) A three-dimensional immunocompetent intestine-on-chip model as *in vitro* platform for functional and microbial interaction studies. *Biomaterials* 220, 119396.

Naglik JR, Gaffen SL, Hube B (2019) Candidalysin: Discovery and function in *Candida albicans* infections. *Curr Opin Microbiol* 52, 100-109. (Review)

Pekmezovic M, Mogavero S, Naglik JR, Hube B (2019) Host-pathogen interactions during female genital tract infections. *Trends Microbiol* 27(12), 982-996. (Review)

Siscar-Lewin S, Hube B, Brunke S (2019) Antivirulence and avirulence genes in human pathogenic fungi. *Virulence* 10(1), 935-947. (Review)

Swidergall M, Khalaji M, Solis N, Moyes D, Drummond R, Hube B, Lionakis M, Murdoch C, Filler S, Naglik J (2019) Candidalysin is required for neutrophil recruitment and virulence during systemic *Candida albicans* infection. *J Infect Dis* 220(9), 1477-1488.

Westman J, Hube B, Fairn GD (2019) Integrity under stress: Host membrane remodelling and damage by fungal pathogens. *Cell Microbiol* 21(4), e13016.

Allert S*, Förster TM*, Svensson C-M, Richardson JP, Pawlik T, Hebecker B, Rudolphi S, Juraschitz M, Schaller M, Blagojevic M, Morschhäuser J, Figge MT, Jacobsen ID, Naglik JR, Kasper L, Mogavero S, Hube B; *authors contributed equally (2018) *Candida albicans*-induced epithelial damage mediates translocation through intestinal barriers. *mBio* 9(3), e00915.

Brunke S, Hube B (2018) The needle and the damage done. *Nat Microbiol* 3(8), 860-861. (Review)

Crawford AC, Lehtovirta-Morley LE, Alamir O, Niemiec MJ, Alawfi B, Alsarraf M, Skrahina V, Costa ACBP, Anderson A, Yellagunda S, Ballou ER, Hube B, Urban CF, Wilson D (2018) Biphasic zinc compartmentalisation in a human fungal pathogen. *PLoS Pathog* 14(5), e1007013.

Gerwien F, Skrahina V, Kasper L, Hube B, Brunke S (2018) Metals in fungal virulence. *FEMS Microbiol Rev* 42(1), fux050. (Review)

Hube B, Kurzai O (2018) *Candida* species. In: Oxford University Press (ed.) Oxford Textbook of Medical Mycology Chapter 11, pp. 77-79. Oxford University Press. ISBN: 978019875. (Review)

Kasper L, König A, Koenig PA, Gresnigt MS, Westman J, Drummond RA, Lionakis MS, Groß O, Ruland J, Naglik JR, Hube B (2018) The fungal peptide toxin Candidalysin activates the NLRP3 inflammasome and causes cytolysis in mononuclear phagocytes. *Nat Commun* 9(1), 4260.

Richardson JP, Mogavero S, Moyes DL, Blagojevic M, Krüger T, Verma AH, Coleman BM, De La Cruz Diaz J, Schulz D, Ponde NO, Carrano G, Kniemeyer O, Wilson D, Bader O, Enoiu SI, Ho J, Kichik N, Gaffen SL, Hube B, Naglik JR (2018) Processing of *Candida albicans* Ece1p is critical for Candidalysin maturation and fungal virulence. *mBio* 9(1), e02178-17.

Richardson JP, Willems HME, Moyes DL, Shoaie S, Barker KS, Tan SL, Palmer GE, Hube B, Naglik JR, Peters BM (2018) Candidalysin drives epithelial signaling, neutrophil recruitment, and immunopathology at the vaginal mucosa. *Infect Immun* 86(2), e00645-17.

Schirbel A, Shouval DS, Hebecker B, Hube B, Sturm A, Werner L (2018) Intestinal epithelial cells and T cells differentially recognize and respond to *Candida albicans* yeast and hypha. *Eur J Immunol* 48(11), 1826-1837.

Sprenger M, Kasper L, Hensel M, Hube B (2018) Metabolic adaptation of intracellular bacteria and fungi to macrophages. *Int J Med Microbiol* 308(1), 215-227. (Review)

Templeton SP, Rivera A, Hube B, Jacobsen ID (2018) Editorial: Immunity to human fungal pathogens: Mechanisms of host recognition, protection, pathology, and fungal interference. *Front Immunol* 9, 2337. (Review)

Verma AH, Zafar H, Ponde NO, Hepworth OW, Sihra D, Aggor FEY, Ainscough JS, Ho J, Richardson JP, Coleman BM, Hube B, Stacey M, McGeachy MJ, Naglik JR, Gaffen SL, Moyes DL (2018) IL-36 and IL-1/IL-17 drive immunity to oral candidiasis via parallel mechanisms. *J Immunol* 201(2), 627-634.

Westman J, Moran G, Mogavero S, Hube B, Grinstein S (2018) *Candida albicans* hyphal expansion causes phagosomal membrane damage and luminal alkalinization. *mBio* 9(5), e01226-18.

Gerwien F, Safyan A, Wisgott S, Brunke S, Kasper L, Hube B (2017) The fungal pathogen *Candida glabrata* does not depend on surface ferric reductases for iron acquisition. *Front Microbiol* 8, 1055.

Jacobsen ID, Hube B (2017) *Candida albicans* morphology: still in focus. *Expert Rev Anti Infect Ther* 15(4), 327-330. (Review)

Köhler JR, Hube B, Puccia R, Casadevall A, Perfect JR (2017) Fungi that infect humans. *Microbiol Spectr* 5(3), FUNK-0014-2016. (Review)

Mailänder-Sánchez D, Braunsdorf C, Grumaz C, Müller C, Lorenz S, Stevens P, Wagener J, Hebecker B, Hube B, Bracher F, Sohn K, Schaller M (2017) Antifungal defense of probiotic *Lactobacillus rhamnosus* GG is mediated by blocking adhesion and nutrient depletion. *PLOS ONE* 12(10), e0184438.

Malavia D, Lehtovirta-Morley LE, Alamir O, Weiß E, Gow NAR, Hube B, Wilson D (2017) Zinc limitation induces a hyper-adherent goliath phenotype in *Candida albicans*. *Front Microbiol* 8, 2238.

Naglik JR, König A, Hube B, Gaffen SL (2017) *Candida albicans*-epithelial interactions and induction of mucosal innate immunity. *Curr Opin Microbiol* 40, 104-112. (Review)

Polke M, Sprenger M, Scherlach K, Albán-Proaño MC, Martin R, Hertweck C, Hube B, Jacobsen ID (2017) A functional link between hyphal maintenance and quorum sensing in *Candida albicans*. *Mol Microbiol* 103(4), 595-617.

Ramírez-Zavala B, Mottola A, Haubenreißer J, Schneider S, Allert S, Brunke S, Ohlsen K, Hube B, Morschhäuser J (2017) The Snf1-activating kinase Sak1 is a key regulator of metabolic adaptation and *in vivo* fitness of *Candida albicans*. *Mol Microbiol* 104(6), 989-1007.

Skrahina V, Brock M, Hube B, Brunke S (2017) *Candida albicans* Hap43 domains are required under iron starvation but not excess. *Front Microbiol* 8, 2388.

Verma AH, Richardson JP, Zhou C, Coleman BM, Moyes DL, Ho J, Huppler AR, Ramani K, McGeachy MJ, Mufazalov IA, Waisman A, Kane LP, Biswas PS, Hube B, Naglik JR, Gaffen SL (2017) Oral epithelial cells orchestrate innate type 17 responses to *Candida albicans* through the virulence factor candidalysin. *Sci Immunol* 2(17), pii: eaam8834.

Yu Y, Hube B, Kämper J, Meyer V, Krappmann S (2017) When green and red mycology meet: Impressions from an interdisciplinary forum on virulence mechanisms of phyto- and human-pathogenic fungi. *Virulence* 8(7), 1435-1444. (Review)

Allert S, Brunke S, Hube B (2016) *In vivo* transcriptional profiling of human pathogenic fungi during infection: reflecting the real life? *PLOS Pathog* 12(4), e1005471. (Review)

Böttcher B, Pöllath C, Staib P, Hube B, Brunke S (2016) *Candida* species rewired hyphae developmental programs for chlamyospore formation. *Front Microbiol* 7, 1697.

Brunke S, Mogavero S, Kasper L, Hube B (2016) Virulence factors in fungal pathogens of man. *Curr Opin Microbiol* 32, 89-95. (Review)

Cassone A, Vecchiarelli A, Hube B (2016) Aspartyl proteinases of eukaryotic microbial pathogens: From eating to heating. *PLOS Pathog* 12(12), e1005992. (Review)

Förster TM, Mogavero S, Dräger A, Graf K, Polke M, Jacobsen ID, Hube B (2016) Enemies and brothers in arms: *Candida albicans* and gram-positive bacteria. *Cell Microbiol* 18(12), 1709-1715. (Review)

Gabrielli E, Sabbatini S, Roselletti E, Kasper L, Perito S, Hube B, Cassone A, Vecchiarelli A,

Pericolini E (2016) *In vivo* induction of neutrophil chemotaxis by secretory aspartyl proteinases of *Candida albicans*. *Virulence* 7(7), 819-825.

Gerwien F, Safyan A, Wisgott S, Hille F, Kämmer P, Linde J, Brunke S, Kasper L, Hube B (2016) A novel hybrid iron regulation network combines features from pathogenic and non-pathogenic yeasts. *mBio* 7(5), e01782-16.

Hebecker B, Vlaic S, Conrad T, Bauer M, Brunke S, Kapitan M, Linde J, Hube B, Jacobsen ID (2016) Dual-species transcriptional profiling during systemic candidiasis reveals organ-specific host-pathogen interactions. *Sci Rep* 6, 36055.

Höfs S, Mogavero S, Hube B (2016) Interaction of *Candida albicans* with host cells: virulence factors, host defense, escape strategies, and the microbiota. *J Microbiol* 54(3), 149-169. (Review)

Khandelwal NK, Kämmer P, Förster TM, Singh A, Coste AT, Andes DR, Hube B, Sanglard D, Chauhan N, Kaur R, d'Enfert C, Mondal AK, Prasad R (2016) Pleiotropic effects of the vacuolar ABC transporter *MLT1* of *Candida albicans* on cell function and virulence. *Biochem J* 473(11), 1537-1552.

Krappmann S, Meyer V, Hube B, Kämper J (2016) Interdisziplinäres Forum zu Virulenzmechanismen phyto- und humanpathogener Pilze. In: Springer Spektrum (ed.) BIOspektrum IFO-Fun 2016: Interdisciplinary forum on virulence mechanisms of phyto- and human-pathogenic fungi, Erlangen, 10/05/2016-10/07/2016, 7-2016, pp. 742. Springer-Verlag GmbH, Heidelberg. (Review)

Luo T, Krüger T, Knüpfer U, Kasper L, Wielsch N, Hube B, Kortgen A, Bauer M, Giamarellos-Bourboulis EJ, Dimopoulos G, Brakhage AA, Kniemeyer O (2016) Immunoproteomic analysis of antibody responses to extracellular proteins of *Candida albicans* revealed the importance of glycosylation for antigen recognition. *J Proteome Res* 15(8), 2394-2406.

Moyes DL*, Wilson D*, Richardson JP*, Mogavero S*, Tang SX, Wernecke J, Höfs S, Gratacap RL, Robbins J, Runglall M, Murciano C, Blagojevic M, Thavaraj S, Förster TM, Hebecker B, Kasper L, Vizcay G, Iancu SI, Kichik N, Häder A, Kurzai O, Luo T, Krüger T, Kniemeyer O, Cota E, Bader O, Wheeler RT, Gutschmann T, Hube B, Naglik JR (2016) Candidalysin is a fungal peptide toxin critical for mucosal infection. *Nature* 532(7597), 64-68.

Naranjo-Ortiz MA, Brock M, Brunke S, Hube B, Marcet-Houben M, Gabaldón T (2016) Widespread inter- and intra-Ddomain horizontal gene transfer of d-amino acid metabolism enzymes in eukaryotes. *Front Microbiol* 7, 2001.

Wilson D, Naglik JR, Hube B (2016) The missing link between *Candida albicans* hyphal morphogenesis and host cell damage. *PLOS Pathog* 12(10), e1005867. (Review)

Winter MB, Salcedo EC, Lohse MB, Hartooni N, Gulati M, Sanchez H, Takagi J, Hube B, Andes DR, Johnson AD, Craik CS, Nobile CJ (2016) Global identification of biofilm-specific proteolysis in *Candida albicans*. *mBio* 7(5), e01514-16.

Böttcher B, Palige K, Jacobsen ID, Hube B, Brunke S (2015) *Csr1/Zap1* maintains zinc homeostasis and influences virulence in *Candida dubliniensis* but is not coupled to morphogenesis. *Eukaryot Cell* 14(7), 661-670.

- Brunke S, Quintin J, Kasper L, Jacobsen ID, Richter ME, Hiller E, Schwarzmüller T, d'Enfert C, Kuchler K, Rupp S, Hube B, Ferrandon D (2015) Of mice, flies - and men? Comparing fungal infection models for large-scale screening efforts. *Dis Model Mech* 8), 473-486.
- Gabrielli E, Pericolini E, Luciano E, Sabbatini S, Roselletti E, Perito S, Kasper L, Hube B, Vecchiarelli A (2015) Induction of Caspase-11 by aspartyl proteinases of *Candida albicans* and implication in promoting inflammatory response. *Infect Immun* 83(5), 1940-1948.
- Hube B (2015) Virulence profile: Bernhard Hube. *Virulence* 6(5), 523-525. (Review)
- Hube B, Hay R, Brasch J, Veraldi S, Schaller M (2015) Dermatomycoses and inflammation: The adaptive balance between growth, damage, and survival. *J Mycol Med* 25(1), e44-e58.
- Kasper L, Miramón P, Jablonowski N, Wisgott S, Wilson D, Brunke S, Hube B (2015) Antifungal activity of clotrimazole against *Candida albicans* depends on carbon sources, growth phase, and morphology. *J Med Microbiol* 64, 714-723.
- Kasper L, Seider K, Hube B (2015) Intracellular survival of *Candida glabrata* in macrophages: immune evasion and persistence. *FEMS Yeast Res* 15(5), fov042.
- Pérez-Torrado R, Llopis S, Perrone B, Gómez-Pastor R, Hube B, Querol A (2015) Comparative genomic analysis reveals a critical role of de novo nucleotide biosynthesis for *Saccharomyces cerevisiae* virulence. *PLoS One* 10(3), e0122382.
- Pericolini E, Gabrielli E, Amacker M, Kasper L, Roselletti E, Luciano E, Sabbatini S, Kaeser M, Moser C, Hube B, Vecchiarelli A, Cassone A (2015) Secretory aspartyl proteinases cause vaginitis and can mediate vaginitis caused by *Candida albicans* in mice. *MBio* 6(3), e00724.
- Polke M, Hube B, Jacobsen ID (2015) *Candida* survival strategies. *Adv Appl Microbiol* 91, 139-235.
- Brunke S, Hube B (2014) Adaptive prediction as a strategy in microbial infections. *PLoS Pathog* 10(10), e1004356.
- Brunke S, Seider K, Fischer D, Jacobsen ID, Kasper L, Jablonowski N, Wartenberg A, Bader O, Enache-Angoulvant A, Schaller M, d'Enfert C, Hube B (2014) One small step for a yeast - Microevolution within macrophages renders *Candida glabrata* hypervirulent due to a single point mutation. *PLoS Pathog* 10(10), e1004478.
- Brunke S, Seider K, Richter ME, Bremer-Streck S, Ramachandra S, Kiehntopf M, Brock M, Hube B (2014) Histidine degradation via an aminotransferase increases the nutritional flexibility of *Candida glabrata*. *Eukaryot Cell* 13(6), 758-765.
- Ene IV, Brunke S, Brown AJ, Hube B (2014) Metabolism in Fungal Pathogenesis. *Cold Spring Harb Perspect Med* 4(12),
- Fischer D, Hube B, Brunke S (2014) Fine-scale chromosomal changes in fungal fitness. *J Curr Fungal Infect Rep* Vol. 8(2), 171-178. (Review)
- Hebecker B, Naglik JR, Hube B, Jacobsen ID (2014) Pathogenicity mechanisms and host response during oral *Candida albicans* infections. *Expert Rev Anti Infect Ther* 12(7), 867-879. (Review)

Hube B (2014) Clotrimazol bei *C. albicans*-Infektionen. Dem Wirkmechanismus auf der Spur. *Frauenarzt* (4/14), 370-372. (Review)

Jacobsen ID, Lüttich A, Kurzai O, Hube B, Brock M (2014) *In vivo* imaging of disseminated murine *Candida albicans* infection reveals unexpected host sites of fungal persistence during antifungal therapy. *J Antimicrob Chemother* 69(10), 2785-2796.

Kasper L, Seider K, Gerwien F, Allert S, Brunke S, Schwarzmüller T, Ames L, Zubiria-Barrera C, Mansour MK, Becken U, Barz D, Vyas JM, Reiling N, Haas A, Haynes K, Kuchler K, Hube B (2014) Identification of *Candida glabrata* genes involved in pH modulation and modification of the phagosomal environment in macrophages. *PLOS One* 9(5), e96015.

Mech F, Wilson D, Lehnert T, Hube B, Figge MT (2014) Epithelial invasion outcompetes hypha development during *Candida albicans* infection as revealed by an image-based systems biology approach. *Cytometry A* 85(2), 126-139.

Miramón P, Dunker C, Kasper L, Jacobsen ID, Barz D, Kurzai O, Hube B (2014) A family of glutathione peroxidases contributes to oxidative stress resistance in *Candida albicans*. *Med Mycol* 52(3), 223-239.

Quintin J, Voigt J, van der Voort R, Jacobsen ID, Verschueren I, Hube B, Giamarellos-Bourboulis EJ, van der Meer JW, Joosten LA, Kurzai O, Netea MG (2014) Differential role of NK cells against *Candida albicans* infection in immunocompetent or immunocompromised mice. *Eur J Immunol* 44(8), 2405-2414.

Ramachandra S, Linde J, Brock M, Guthke R, Hube B, Brunke S (2014) Regulatory networks controlling nitrogen sensing and uptake in *Candida albicans*. *PLOS One* 9(3), e92734.

Schwarzmüller T, Ma B, Hiller E, Istel F, Tscherner M, Brunke S, Ames L, Firon A, Green B, Cabral V, Marcet-Houben M, Jacobsen ID, Quintin J, Seider K, Frohner I, Glaser W, Jungwirth H, Bachellier-Bassi S, Chauvel M, Zeidler U, Ferrandon D, Gabaldón T, Hube B, d'Enfert C, Rupp S, Cormack B, Haynes K, Kuchler K (2014) Systematic phenotyping of a large-scale *Candida glabrata* deletion collection reveals novel antifungal tolerance genes. *PLOS Pathog* 10(6), e1004211.

Seider K, Gerwien F, Kasper L, Allert S, Brunke S, Jablonowski N, Schwarzmüller T, Barz D, Rupp S, Kuchler K, Hube B (2014) Immune evasion, stress resistance, and efficient nutrient acquisition are crucial for intracellular survival of *Candida glabrata* within macrophages. *Eukaryot Cell* 13(1), 170-183.

Voigt J, Hünninger K, Bouzani M, Jacobsen ID, Barz D, Hube B, Löffler J, Kurzai O (2014) Human natural killer cells acting as phagocytes against *Candida albicans* and mounting an inflammatory response that modulates neutrophil antifungal activity. *J Infect Dis* 209(4), 616-626.

Wartenberg A, Linde J, Martin R, Schreiner M, Horn F, Jacobsen ID, Jenull S, Wolf T, Kuchler K, Guthke R, Kurzai O, Forche A, d'Enfert C, Brunke S, Hube B (2014) Microevolution of *Candida albicans* in macrophages restores filamentation in a nonfilamentous mutant. *PLOS Genet* 10(12), e1004824.

Whittington A, Gow NAR, Hube B (2014) From commensal to pathogen: *Candida albicans*. In: Esser K, Kurzai O (eds.) *The Mycota Ed. 2. Vol. XII*, pp. 3-18. Springer Verlag.

- Wilson D, Mayer FL, Miramón P, Citiulo F, Slesiona S, Jacobsen ID, Hube B (2014) Distinct roles of *Candida albicans*-specific genes in host-pathogen interactions. *Eukaryot Cell* 13(8), 977-989.
- Brunke S, Hube B (2013) Two unlike cousins: *Candida albicans* and *C. glabrata* infection strategies. *Cell Microbiol* 15(5), 701-708. (Review)
- Hennicke F, Grumbt M, Lermann U, Ueberschaar N, Palige K, Böttcher B, Jacobsen ID, Staib C, Morschhäuser J, Monod M, Hube B, Hertweck C, Staib P (2013) Factors supporting cysteine tolerance and sulfite production in *Candida albicans*. *Eukaryot Cell* 12(4), 604-613.
- Lüttich A, Brunke S, Hube B, Jacobsen ID (2013) Serial passaging of *Candida albicans* in systemic murine infection suggests that the wild type strain SC5314 is well adapted to the murine kidney. *PLOS One* 8(5), e64482.
- Martin R, Albrecht-Eckardt D, Brunke S, Hube B, Hünninger K, Kurzai O (2013) A core filamentation response network in *Candida albicans* is restricted to eight genes. *PLOS One* 8(3), e58613.
- Mayer FL, Wilson D, Hube B (2013) Hsp21 potentiates antifungal drug tolerance in *Candida albicans*. *PLOS One* 8(3), e60417.
- Mayer FL, Wilson D, Hube B (2013) *Candida albicans* pathogenicity mechanisms. *Virulence* 4(2), 119-128. (Review)
- Miramón P, Kasper L, Hube B (2013) Thriving within the host: *Candida* spp. interactions with phagocytic cells. *Med Microbiol Immunol* 202(3), 183-195. (Review)
- Otto GP, Ludewig K, Jacobsen ID, Schaarschmidt B, Hube B, Bauer M (2013) Limitation of (1→3)-β-D-glucan monitoring in major elective surgery involving cardiopulmonary bypass. *Crit Care* 17(3), 437.
- Palige K, Linde J, Martin R, Böttcher B, Citiulo F, Sullivan DJ, Weber J, Staib C, Rupp S, Hube B, Morschhäuser J, Staib P (2013) Global transcriptome sequencing identifies chlamydospore specific markers in *Candida albicans* and *Candida dubliniensis*. *PLOS One* 8(4), e61940.
- Pietrella D, Pandey N, Gabrielli E, Pericolini E, Perito S, Kasper L, Bistoni F, Cassone A, Hube B, Vecchiarelli A (2013) Secreted aspartic proteases of *Candida albicans* activate the NLRP3 inflammasome. *Eur J Immunol* 43(3), 679-692.
- Wagener J, Schneider JJ, Baxmann S, Kalbacher H, Borelli C, Nuding S, Kuchler R, Wehkamp J, Kaeser MD, Mailänder-Sanchez D, Braunsdorf C, Hube B, Schild L, Forssmann WG, Korting HC, Liepke C, Schaller M (2013) A peptide derived from the highly conserved protein GAPDH is involved in tissue protection by different antifungal strategies and epithelial immunomodulation. *J Invest Dermatol* 133(1), 144-153.
- Wilson D, Hebecker B, Moyes DL, Miramón P, Jablonowski N, Wisgott S, Allert S, Naglik JR, Hube B (2013) Clotrimazole dampens vaginal inflammation and neutrophil infiltration in response to *Candida albicans* infection. *Antimicrob Agents Chemother* 57(10), 5178-5180.
- Cheng SC, Sprong T, Joosten LA, van der Meer JW, Kullberg BJ, Hube B, Schejbel L, Garred P, van Deuren M, Netea MG (2012) Complement plays a central role in *Candida albicans*-induced cytokine production by human PBMCs. *Eur J Immunol* 42(4), 993-991004.

Citiulo F, Jacobsen ID, Miramón P, Schild L, Brunke S, Zipfel PF, Brock M, Hube B, Wilson D (2012) *Candida albicans* scavenges host zinc via Pra1 during endothelial invasion. *PLoS Pathog* 8(6), e1002777.

Gow NA, Hube B (2012) Importance of the *Candida albicans* cell wall during commensalism and infection. *Curr Opin Microbiol* 15(4), 406-412. (Review)

Jacobsen ID, Grosse K, Hube B (2012) Embryonated chicken eggs as alternative infection model for pathogenic fungi. In: Brand AC, MacCallum DM (eds.) *Methods in Molecular Biology. Host-fungus interactions. Methods and Protocols*. 845, pp. 487-496. Humana Press (Springer).

Jacobsen ID, Wilson D, Wächtler B, Brunke S, Naglik JR, Hube B (2012) *Candida albicans* dimorphism as a therapeutic target. *Expert Rev Anti Infect Ther* 10(1), 85-93. (Review)

Llopis S, Querol A, Heyken A, Hube B, Jespersen L, Fernández-Espinar MT, Pérez-Torrado R (2012) Transcriptomics in human blood incubation reveals the importance of oxidative stress response in *Saccharomyces cerevisiae* clinical strains. *BMC Genomics* 13, 419.

Lüttich A, Brunke S, Hube B (2012) Isolation and amplification of fungal RNA for microarray analysis from host samples. In: Brand AC, MacCallum DM (eds.) *Methods in Molecular Biology. Host-fungus interactions. Methods and Protocols*. 845, pp. 411-421. Humana Press (Springer).

Mayer FL, Wilson D, Jacobsen ID, Miramón P, Große K, Hube B (2012) The novel *Candida albicans* transporter Dur31 is a multi-stage pathogenicity factor. *PLoS Pathog* 8(3), e1002592.

Mayer FL, Wilson D, Jacobsen ID, Miramón P, Slesiona S, Bohovych IM, Brown AJ, Hube B (2012) Small but crucial: the novel small heat shock protein Hsp21 mediates stress adaptation and virulence in *Candida albicans*. *PLOS One* 7(6), e38584.

Miramón P, Dunker C, Windecker H, Bohovych IM, Brown AJ, Kurzai O, Hube B (2012) Cellular responses of *Candida albicans* to phagocytosis and the extracellular activities of neutrophils are critical to counteract carbohydrate starvation, oxidative and nitrosative stress. *PLOS One* 7(12), e52850-e52850.

Puri S, Kumar R, Chadha S, Tati S, Conti HR, Hube B, Cullen PJ, Edgerton M (2012) Secreted aspartic protease cleavage of *Candida albicans* Msb2 activates Cek1 MAPK signaling affecting biofilm formation and oropharyngeal candidiasis. *PLOS One* 7(11), e46020-e46020.

Slesiona S, Gressler M, Mihlan M, Zaehle C, Schaller M, Barz D, Hube B, Jacobsen ID, Brock M (2012) Persistence versus escape: *Aspergillus terreus* and *Aspergillus fumigatus* employ different strategies during interactions with macrophages. *PLOS One* 7(2), e31223-e31223.

Tierney L, Linde J, Müller S, Brunke S, Molina JC, Hube B, Schöck U, Guthke R, Kuchler K (2012) An interspecies regulatory network inferred from simultaneous RNA-seq of *Candida albicans* invading innate immune cells. *Front Microbiol* 3, 85.

Wächtler B, Citiulo F, Jablonowski N, Förster S, Dalle F, Schaller M, Wilson D, Hube B (2012) *Candida albicans*-epithelial interactions: dissecting the roles of active penetration, induced endocytosis and host factors on the infection process. *PLOS One* 7(5), e36952.

Wilson D, Citiulo F, Hube B (2012) Zinc exploitation by pathogenic fungi. *PLoS Pathog* 8(12), e1003034. (Review)

Burmester A, Shelest E, Glöckner G, Heddergott C, Schindler S, Staib P, Heidel A, Felder M, Petzold A, Szafranski K, Feuermann M, Pedruzzi I, Priebe S, Groth M, Winkler R, Li W, Kniemeyer O, Schroeckh V, Hertweck C, Hube B, White TC, Platzner M, Guthke R, Heitman J, Wöstemeyer J, Zipfel PF, Monod M, Brakhage AA (2011) Comparative and functional genomics provide insights into the pathogenicity of dermatophytic fungi. *Genome Biol* 12(1), R7.

Jacobsen ID, Grosse K, Berndt A, Hube B (2011) Pathogenesis of *Candida albicans* infections in the alternative chorio-allantoic membrane chicken embryo model resembles systemic murine infections. *PLOS One* 6(5), e19741-e19741.

Losse J, Svobodová E, Heyken A, Hube B, Zipfel PF, Józsi M (2011) Role of pH-regulated antigen 1 of *Candida albicans* in the fungal recognition and antifungal response of human neutrophils. *Mol Immunol* 48(15-16), 2135-2143.

Luo S, Blom AM, Rupp S, Hipler UC, Hube B, Skerka C, Zipfel PF (2011) The pH-regulated antigen 1 of *Candida albicans* binds the human complement inhibitor C4b-binding protein and mediates fungal complement evasion. *J Biol Chem* 286(10), 8021-8029.

Martin R, Moran GP, Jacobsen ID, Heyken A, Domey J, Sullivan DJ, Kurzai O, Hube B (2011) The *Candida albicans*-specific gene EED1 encodes a key regulator of hyphal extension. *PLOS One* 6(4), e18394.

Martin R, Wächtler B, Schaller M, Wilson D, Hube B (2011) Host-pathogen interactions and virulence-associated genes during *Candida albicans* oral infections. *Int J Med Microbiol* 301(5), 417-422. (Review)

Müller S, Fleck CB, Wilson D, Hummert C, Hube B, Brock M (2011) Gene acquisition, duplication and metabolic specification: the evolution of fungal methylisocitrate lyases. *Environ Microbiol* 13(6), 1534-1548.

Naglik JR, Moyes DL, Wächtler B, Hube B (2011) *Candida albicans* interactions with epithelial cells and mucosal immunity. *Microbes Infect* 13(12-13), 963-976. (Review)

Schild L, Heyken A, de Groot PW, Hiller E, Mock M, de Koster C, Horn U, Rupp S, Hube B (2011) Proteolytic cleavage of covalently linked cell wall proteins by *Candida albicans* Sap9 and Sap10. *Eukaryot Cell* 10(1), 98-9109.

Seider K, Brunke S, Schild L, Jablonowski N, Wilson D, Majer O, Barz D, Haas A, Kuchler K, Schaller M, Hube B (2011) The facultative intracellular pathogen *Candida glabrata* subverts macrophage cytokine production and phagolysosome maturation. *J Immunol* 187(6), 3072-3086.

Wächtler B, Wilson D, Haedicke K, Dalle F, Hube B (2011) From attachment to damage: defined genes of *Candida albicans* mediate adhesion, invasion and damage during interaction with oral epithelial cells. *PLOS One* 6(2), e17046.

Wächtler B, Wilson D, Hube B (2011) *Candida albicans* adhesion to and invasion and damage of vaginal epithelial cells: stage-specific inhibition by clotrimazole and bifonazole. *Antimicrob Agents Chemother* 55(9), 4436-4439.

Wilson D, Mayer F, Hube B (2011) Gene expression during the distinct stages of Candidiasis. In: Calderone RA, Clancy CJ (eds.) *Candida and Candidiasis*. 2. Ed.. pp. 283-298. ASM Press.

Brunke S, Seider K, Almeida RS, Heyken A, Fleck CB, Brock M, Barz D, Rupp S, Hube B (2010) *Candida glabrata* tryptophan-based pigment production via the Ehrlich pathway. *Mol Microbiol* 76(1), 25-47.

Cheng SC, Chai LY, Joosten LA, Vecchiarelli A, Hube B, Van Der Meer JW, Kullberg BJ, Netea MG (2010) *Candida albicans* releases soluble factors that potentiate cytokine production by human cells through a protease-activated receptor 1- and 2-independent pathway. *Infect Immun* 78(1), 393-399.

Dalle F, Wächtler B, L'Ollivier C, Holland G, Bannert N, Wilson D, Labruère C, Bonnin A, Hube B (2010) Cellular interactions of *Candida albicans* with human oral epithelial cells and enterocytes. *Cell Microbiol* 12(2), 248-271.

Hummert S, Hummert C, Schröter A, Hube B, Schuster S (2010) Game theoretical modelling of survival strategies of *Candida albicans* inside macrophages. *J Theor Biol* 264(2), 312-318.

Jacobsen ID, Brunke S, Seider K, Schwarzmüller T, Firon A, d'Enfert C, Kuchler K, Hube B (2010) *Candida glabrata* persistence in mice does not depend on host immunosuppression and is unaffected by fungal amino acid auxotrophy. *Infect Immun* 78(3), 1066-1077.

Jacobsen ID, Grosse K, Slesiona S, Hube B, Berndt A, Brock M (2010) Embryonated eggs as an alternative infection model to investigate *Aspergillus fumigatus* virulence. *Infect Immun* 78(7), 2995-3006.

Linde J, Wilson D, Hube B, Guthke R (2010) Regulatory network modelling of iron acquisition by a fungal pathogen in contact with epithelial cells. *BMC Syst Biol* 4, 148.

Naglik JR, Hube B (2010) Chapter 5: Secreted *Candida* proteins: Pathogenicity and host immunity. In: Ashbee R, Bignell EM (eds.) Pathogenic Yeasts. The Yeast Handbook pp. 97-120. ??.

Pietrella D, Rachini A, Pandey N, Schild L, Netea M, Bistoni F, Hube B, Vecchiarelli A (2010) The Inflammatory response induced by aspartic proteases of *Candida albicans* is independent of proteolytic activity. *Infect Immun* 78(11), 4754-4762.

Seider K, Heyken A, Lüttich A, Miramón P, Hube B (2010) Interaction of pathogenic yeasts with phagocytes: survival, persistence and escape. *Curr Opin Microbiol* 13(4), 392-400. (Review)

Wächtler B, Hube B (2010) Die Phasen des Invasionsprozesses von *Candida albicans*. *DERM* (5), 332-336.

Wilson D, Hube B (2010) Hgc1 mediates dynamic *Candida albicans*-endothelium adhesion events during circulation. *Eukaryot Cell* 9(2), 278-287.

Almeida RS, Wilson D, Hube B (2009) *Candida albicans* iron acquisition within the host. *FEMS Yeast Res* 9(7), 1000-1012.

Butler G, Rasmussen MD, Lin MF, Santos MA, Sakthikumar S, Munro CA, Rheinbay E, Grabherr M, Forche A, Reedy JL, Agrafioti I, Arnaud MB, Bates S, Brown AJ, Brunke S, Costanzo MC, Fitzpatrick DA, de Groot PW, Harris D, Hoyer LL, Hube B, Klis FM, Kodira C, Lennard N, Logue ME, Martin R, Neiman AM, Nikolaou E, Quail MA, Quinn J, Santos MC, Schmitzberger FF, Sherlock G, Shah P, Silverstein KA, Skrzypek MS, Soll D, Staggs R, Stansfield I, Stumpf MP,

Sudbery PE, Srikantha T, Zeng Q, Berman J, Berriman M, Heitman J, Gow NA, Lorenz MC, Birren BW, Kellis M, Cuomo CA (2009) Evolution of pathogenicity and sexual reproduction in eight *Candida* genomes. *Nature* 459(7247), 657-662.

Gropp K, Schild L, Schindler S, Hube B, Zipfel PF, Skerka C (2009) The yeast *Candida albicans* evades human complement attack by secretion of aspartic proteases. *Mol Immunol* 47(2-3), 465-475.

Hornbach A, Heyken A, Schild L, Hube B, Löffler J, Kurzai O (2009) The glycosylphosphatidylinositol-anchored protease Sap9 modulates the interaction of *Candida albicans* with human neutrophils. *Infect Immun* 77(12), 5216-5224.

Hort W, Lang S, Brunke S, Mayser P, Hube B (2009) Analysis of differentially expressed genes associated with tryptophan-dependent pigment synthesis in *M. furfur* by cDNA subtraction technology. *Med Mycol* 47(3), 248-258.

Naglik JR, Hube B (2009) Chapter 9. Secreted *Candida* proteins: Pathogenicity and host immunity. In: Ashbee R, Bignell EM (eds.) Pathogenic Yeasts. The Yeast Handbook pp. 97-120. ??.

Schaller M, Weindl G, Hube B (2009) Introduction: host responses. *Methods Mol Biol* 470, 291-292.

Wilson D, Thewes S, Zakikhany K, Fradin C, Albrecht A, Almeida R, Brunke S, Grosse K, Martin R, Mayer F, Leonhardt I, Schild L, Seider K, Skibbe M, Slesiona S, Waechter B, Jacobsen I, Hube B (2009) Identifying infection-associated genes of *Candida albicans* in the postgenomic era. *FEMS Yeast Res* 9(5), 688-700. (Review)

Almeida RS, Brunke S, Albrecht A, Thewes S, Laue M, Edwards JE, Filler SG, Hube B (2008) The hyphal-associated adhesin and invasin Als3 of *Candida albicans* mediates iron acquisition from host ferritin. *PLoS Pathog* 4(11), e1000217.

Bader O, Krauke Y, Hube B (2008) Processing of predicted substrates of fungal Kex2 proteinases from *Candida albicans*, *C. glabrata*, *Saccharomyces cerevisiae* and *Pichia pastoris*. *BMC Microbiol* 8, 116-116.

Hube B (2008) Was *Candida* wild macht. *Ärztliche Praxis DermatologieAllergologie* 5, 42-43. (Review)

Hube B (2008) Report on FunNet 2007: Forschung an humanpathogenen Pilzen bündeln und koordinieren. *Biospektrum* 1, 102. (Review)

Mora-Montes HM, Bader O, López-Romero E, Zinker S, Ponce-Noyola P, Hube B, Gow NA, Flores-Carreón A (2008) Kex2 protease converts the endoplasmic reticulum alpha1,2-mannosidase of *Candida albicans* into a soluble cytosolic form. *Microbiology* 154(Pt 12), 3782-3794.

Naglik JR, Moyes D, Makwana J, Kanzaria P, Tsihklaki E, Weindl G, Tappuni AR, Rodgers CA, Woodman AJ, Challacombe SJ, Schaller M, Hube B (2008) Quantitative expression of the *Candida albicans* secreted aspartyl proteinase gene family in human oral and vaginal candidiasis. *Microbiology* 154(Pt 11), 3266-3280.

Thewes S, Moran GP, Magee BB, Schaller M, Sullivan DJ, Hube B (2008) Phenotypic screening, transcriptional profiling, and comparative genomic analysis of an invasive and non-invasive strain of *Candida albicans*. *BMC Microbiol* 8, 187-187.

Wozniok I, Hornbach A, Schmitt C, Frosch M, Einsele H, Hube B, Löffler J, Kurzai O (2008) Induction of ERK-kinase signalling triggers morphotype-specific killing of *Candida albicans* filaments by human neutrophils. *Cell Microbiol* 10(3), 807-820.

Zakikhany K, Thewes S, Wilson D, Martin R, Albrecht A, Hube B (2008) From attachment to invasion: infection associated genes of *Candida albicans*. *Nihon Ishinkin Gakkai Zasshi* 49(4), 245-251.

d'Enfert C, Hube B (2007) Introduction In: d'Enfert C, Hube B (eds.) *Candida. Comparative and functional genomics*. pp. 1-5. Caister Academic Press. ISBN: 9781904455134.

Fradin C, Mavor AL, Weindl G, Schaller M, Hanke K, Kaufmann SH, Mollenkopf H, Hube B (2007) The early transcriptional response of human granulocytes to infection with *Candida albicans* is not essential for killing but reflects cellular communications. *Infect Immun* 75(3), 1493-1501.

Hube B (2007) Report on FunNet 2007: Focussing and coordinating European research on human pathogenic fungi. *Mycology Newsletter* 1, 23. (Review)

Jackson BE, Wilhelmus KR, Hube B (2007) The role of secreted aspartyl proteinases in *Candida albicans* keratitis. *Invest Ophthalmol Vis Sci* 48(8), 3559-3565.

Thewes S, Kretschmar M, Park H, Schaller M, Filler SG, Hube B (2007) *In vivo* and *ex vivo* comparative transcriptional profiling of invasive and non-invasive *Candida albicans* isolates identifies genes associated with tissue invasion. *Mol Microbiol* 63(6), 1606-1628.

Thewes S, Reed HK, Grosse-Siestrup C, Groneberg DA, Meissler M, Schaller M, Hube B (2007) Haemoperfused liver as an *ex vivo* model for organ invasion of *Candida albicans*. *J Med Microbiol* 56(Pt 2), 266-270.

Weindl G, Naglik JR, Kaesler S, Biedermann T, Hube B, Korting HC, Schaller M (2007) Human epithelial cells establish direct antifungal defense through TLR4-mediated signaling. *J Clin Invest* 117(12), 3664-3672.

Zakikhany K, Naglik JR, Schmidt-Westhausen A, Holland G, Schaller M, Hube B (2007) *In vivo* transcript profiling of *Candida albicans* identifies a gene essential for interepithelial dissemination. *Cell Microbiol* 9(12), 2938-2954.

Albrecht A, Felk A, Pichova I, Naglik JR, Schaller M, de Groot P, Maccallum D, Odds FC, Schäfer W, Klis F, Monod M, Hube B (2006) Glycosylphosphatidylinositol-anchored proteases of *Candida albicans* target proteins necessary for both cellular processes and host-pathogen interactions. *J Biol Chem* 281(2), 688-694.

Brunke S, Hube B (2006) MfLIP1, a gene encoding an extracellular lipase of the lipid-dependent fungus *Malassezia furfur*. *Microbiology* 152(Pt 2), 547-554.

Fradin C, Hube B (2006) Transcriptional profiling of *Candida albicans* in human blood. *Microbe / ASM News* 1, 76-80. (Review)

- Hube B (2006) Infection-associated genes of *Candida albicans*. *Future Microbiol* 1(2), 209-218. (Review)
- Kaplanek P, de Boer A, Gross U, de Groot P, Hube B, Weig M (2006) *Candida* and Candidosis today: where are we, and where to go? The Interdisciplinary Forum on Candidosis (IFOCAN) 2005, Göttingen (Germany), 23-25 September 2005. *FEMS Yeast Res* 6(8), 1290-1294. (Review)
- Neuhof T, Seibold M, Thewes S, Laue M, Han CO, Hube B, von Döhren H (2006) Comparison of susceptibility and transcription profile of the new antifungal Hassallidin A with caspofungin. *Biochem Biophys Res Commun* 349(2), 740-749.
- Schaller M, Zakikhany K, Naglik JR, Weindl G, Hube B (2006) Models of oral and vaginal candidiasis based on in vitro reconstituted human epithelia. *Nat Protoc* 1(6), 2767-2773.
- Sigle HC, Schäfer-Korting M, Korting HC, Hube B, Niewerth M (2006) In vitro investigations on the mode of action of the hydroxypyridone antimycotics rilopirox and piroctone on *Candida albicans*. *Mycoses* 49(3), 159-168.
- Copping VM, Barelle CJ, Hube B, Gow NA, Brown AJ, Odds FC (2005) Exposure of *Candida albicans* to antifungal agents affects expression of SAP2 and SAP9 secreted proteinase genes. *J Antimicrob Chemother* 55(5), 645-654.
- d'Enfert C, Goyard S, Rodriguez-Arnaveille S, Frangeul L, Jones L, Tekaia F, Bader O, Albrecht A, Castillo L, Dominguez A, Ernst JF, Fradin C, Gaillardin C, Garcia-Sanchez S, de Groot P, Hube B, Klis FM, Krishnamurthy S, Kunze D, Lopez MC, Mavor A, Martin N, Moszer I, Onésime D, Perez Martin J, Sentandreu R, Valentin E, Brown AJ (2005) CandidaDB: a genome database for *Candida albicans* pathogenomics. *Nucleic Acids Res* 33(Database issue), D353-D357.
- Fradin C, De Groot P, MacCallum D, Schaller M, Klis F, Odds FC, Hube B (2005) Granulocytes govern the transcriptional response, morphology and proliferation of *Candida albicans* in human blood. *Mol Microbiol* 56(2), 397-415.
- Kunze D, Melzer I, Bennett D, Sanglard D, MacCallum D, Nörskau J, Coleman DC, Odds FC, Schäfer W, Hube B (2005) Functional analysis of the phospholipase C gene CaPLC1 and two unusual phospholipase C genes, CaPLC2 and CaPLC3, of *Candida albicans*. *Microbiology* 151(Pt 10), 3381-3394.
- Mavor AL, Thewes S, Hube B (2005) Systemic fungal infections caused by *Candida* species: epidemiology, infection process and virulence attributes. *Curr Drug Targets* 6(8), 863-874.
- Schaller M, Korting HC, Borelli C, Hamm G, Hube B (2005) *Candida albicans*-secreted aspartic proteinases modify the epithelial cytokine response in an in vitro model of vaginal candidiasis. *Infect Immun* 73(5), 2758-2765.
- Sigle HC, Thewes S, Niewerth M, Korting HC, Schäfer-Korting M, Hube B (2005) Oxygen accessibility and iron levels are critical factors for the antifungal action of ciclopirox against *Candida albicans*. *J Antimicrob Chemother* 55(5), 663-673.
- Fradin C, Thewes S, Zakikhany K, Albrecht A, Bader O, Kunze D, Hube B (2004) Transcriptional profiling of *Candida albicans* during infections. *Mikologia Lekarska* 11, 157-163. (Review)

Hube B (2004) From commensal to pathogen: stage- and tissue-specific gene expression of *Candida albicans*. *Curr Opin Microbiol* 7(4), 336-341. (Review)

Moran G, Stokes C, Thewes S, Hube B, Coleman DC, Sullivan D (2004) Comparative genomics using *Candida albicans* DNA microarrays reveals absence and divergence of virulence-associated genes in *Candida dubliniensis*. *Microbiology* 150(Pt 10), 3363-3382.

Naglik J, Albrecht A, Bader O, Hube B (2004) *Candida albicans* proteinases and host/pathogen interactions. *Cell Microbiol* 6(10), 915-926. (Review)

Schaller M, Boeld U, Oberbauer S, Hamm G, Hube B, Korting HC (2004) Polymorphonuclear leukocytes (PMNs) induce protective Th1-type cytokine epithelial responses in an *in vitro* model of oral candidosis. *Microbiology* 150(Pt 9), 2807-2813.

Schaller M, Hube B (2004) *Candida albicans*-Infektionsmodelle. *Bioforum* 11, 2-3. (Review)

Schaller M, Korting HC, Hube B (2004) Chapter 3. Virulence factors that promote invasion of *Candida albicans*. In: San-Blas G, Calderone RA (eds.) *Pathogenic Fungi: Host Interactions and Emerging Strategies for Control*. pp. 97-127. Caister Academic Press.

Munro C, Fradin C, Bader O, Hube B (0) Chapter 9. Postgenomic approaches to analyse *Candida albicans* pathogenicity. In: Brown A (ed.) *The Mycota Vol. XII, Fungal Genomics and Proteomics*, pp. 163-184. Springer Verlag.

Schaller M, Zakikhany K, Weindl G, Borelli C, Korting HC, Hube B (0) *In vitro*-Modelle auf der Basis von rekonstituierter humaner Haut/Schleimhaut zur Charakterisierung der Interaktion zwischen *C. albicans* und Wirtszellen. *Der Hautarzt* 59(12), (Review)

Thewes S, Hube B (0) Untersuchungen zur Invasivität von *Candida albicans*. *Epidemiologisches Bulletin, Robert Koch-Institut* 29, 230-231. (Review)

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