

PUBLICATION LIST

Peer-reviewed articles:

1. **Meneau I, Coste AT, Sanglard D.** Identification of *Aspergillus fumigatus* multidrug transporter genes and their potential involvement in antifungal resistance. *Med Mycol.* 2016 Mar 1. pii: myw005.
2. **Sanglard D, Coste AT,** Activity of Isavuconazole and Other Azoles against *Candida* Clinical Isolates and Yeast Model Systems with Known Azole Resistance Mechanisms. *Antimicrob Agents Chemother.* 2015 Oct 19;60(1):229-38.
3. **Sara Amorim-Vaz, Van Du T. Tran, Sylvain Pradervand, Marco Pagni, Alix T. Coste*, and Dominique Sanglard*,** RNA enrichment method for quantitative transcriptional analysis of pathogens *in vivo* applied to the fungus *Candida albicans*. *mBio*, 2015 Sep 22;6(5):e00942-15. *contributed equally to this work.
4. **Eric Delarze, Françoise Ischer, Dominique Sanglard, Alix T. Coste.** Adaptation of a *Gaussia princeps* Luciferase reporter system in *Candida albicans* for *in vivo* detection in the *Galleria mellonella* infection model. *Virulence*, 2015;6(7):684-93.
5. **Sara Amorim-Vaz, Eric Delarze, Françoise Ischer, Dominique Sanglard, Alix T. Coste.** Examining the virulence of *Candida albicans* transcription factor mutants using *Galleria Mellonella* and mouse infection models. *Front Microbiol.* 2015 May 5;6:367.
6. **Andrea Lohberger, Alix T. Coste, Dominique Sanglard.** Distinct roles of *Candida albicans* drug resistance transcription factors TAC1, MRR1, and UPC2 in virulence. *Eukaryotic Cell.* 2014 Jan;13(1):127-42.
7. **Eddouzi J, Parker JE, Vale-Silva LA, Coste A, Ischer F, Kelly S, Manai M, Sanglard D.** Molecular mechanisms of drug resistance in clinical *Candida* species isolated from Tunisian Hospitals. *Antimicrob Agents Chemother.* 2013 Jul;57(7):3182-93
8. **P. Vandeputte, S. Pradervand, F. Ischer, A. Coste, S. Ferrari, K. Harshman, and D. Sanglard.** Identification and functional characterization of Rca1, a transcription factor involved in both antifungal susceptibility and host response in *Candida albicans*. *Eukaryot Cell.* 2012 Jul;11(7):916-31.
9. **L. A. Vale-Silva, A. T. Coste, F. Ischer, J.E Parker, S. L. Kelly, E. Pinto, D. Sanglard.** Azole resistance by loss of function of the sterol $\Delta^5,^6$ -desaturase gene (*ERG3*) in *Candida albicans* does not necessarily decrease virulence. *Antimicrob Agents Chemother.* 2012 Apr;56(4):1960-8.
10. **I. Rubino, A. Coste, D. Le Roy, T. Roger, K. Jatou, M. Boeckh, M. Monod, J.-P. Latgé, T. Calandra and P.-Y. Bochud.** Species-Specific Recognition of *Aspergillus fumigatus* by TLR1 and TLR6. *J Infect Dis.* 2012 Mar;205(6):944-54.
11. **P. Vandeputte, F. Ischer, D. Sanglard, A. T. Coste.** *In vivo* systematic analysis of *C. albicans* Zn2-Cys6 transcription factors mutants for mice organ colonization. *Plos One*, 2011;6(10):e26962.
12. **Kofla G, Turner V, Schulz B, Storch U, Froelich D, Rognon B, Coste AT, Sanglard D, Ruhnke M.** Doxorubicin induces drug efflux pumps in *Candida albicans*. *Med Mycol.* 2011 Feb;49(2):132-42.
13. **Maccallum DM, Coste A, Ischer F, Jacobsen MD, Odds FC, Sanglard D.** Genetic dissection of azole resistance mechanisms in *Candida albicans* and their validation in a mouse model of disseminated infection. *Antimicrob Agents Chemother.* 2010 Apr;54(4):1476-83.
14. **A.T. Coste, J. Crittin, C. Bauser, B. Rohde and D. Sanglard.** Functional analysis of cis- and trans- acting elements of the *Candida albicans* *CDR2* promoter with a novel promoter reporter system. *Eukaryot Cell.* 2009 Aug;8(8):1250-67.
15. **Coste AT, Ramsdale M, Ischer F, Sanglard D.** Divergent functions of three *Candida albicans* zinc-cluster transcription factors (CTA4, ASG1 and CTF1) complementing pleiotropic drug resistance in *Saccharomyces cerevisiae*. *Microbiology.* 2008 May;154(Pt 5):1491-501.
16. **Gobert AP, Coste A, Guzman CA, Vareille M, Hindré T, de Sablet T, Girardeau JP, Martin C.** Modulation of chemokine gene expression by Shiga-toxin producing *Escherichia coli* belonging to various origins and serotypes. *Microbes Infect.* 2008 Feb;10(2):159-65.
17. **Coste A, Selmecki A, Forche A, Diogo D, Bougnoux ME, d'Enfert C, Berman J, Sanglard D.** Genotypic evolution of azole resistance mechanisms in sequential *C. albicans* isolates. *Eukaryot Cell.* 2007 Oct;6(10):1889-904.
18. **Pardini G., De Groot P.W., Coste A.T., Karababa M., Klis F.M., de Koster C.G., Sanglard D.** The CRH family coding for cell wall glycosylphosphatidylinositol proteins with a predicted transglycosidase domain affects cell wall organization and virulence of *Candida albicans*. *J Biol Chem.* 2006 Dec 29;281(52):40399-411
19. **B. Rognon, Z. Kozovska, A.T. Coste, G. Pardini and D. Sanglard.** Identification of promoter elements responsible for the regulation of *MDR1* from *Candida albicans*, a Major Facilitator transporter involved in azole resistance. *Microbiology*, 2006 Dec;152(Pt 12):3701-22.
20. **A.T. Coste, V. Turner, F. Ischer, J. Morschhäuser, A. Forche, A. Semelcki, J. Berman, J. Bille J. and D. Sanglard.** A mutation in Tac1p, a transcription factor regulating *CDR1* and *CDR2*, is coupled with loss of heterozygosity at Chromosome 5 to mediate antifungal resistance in *Candida albicans*. *Genetics*, 2006 Apr;172(4) : 2139-56
21. **M. Karababa, E. Valentino, G. Pardini, A. T. Coste, J. Bille and D. Sanglard.** *CRZ1*, a target of the calcineurin pathway in *Candida albicans*. *Mol. Microbiol.* 2006, Mar;59(5):1429-51
22. **A.T. Coste, M. Karababa, F. Ischer, J. Bille, D. Sanglard.** *TAC1*, transcriptional activator of CDR genes, is a new

transcription factor involved in the regulation of *Candida albicans* ABC-transporters CDR1 and CDR2. Eukaryot Cell. 2004 Dec;3(6):1639-52

23. **M. Karababa***, **A.T. Coste***, **B. Rognon**, **J. Bille**, **D. Sanglard**. Comparison of gene expression profiles of *Candida albicans* azole-resistant clinical isolates and laboratory strains exposed to drugs inducing multidrug transporters. Antimicrob Agents Chemother. 2004 Aug;48(8):3064-79. . *contributed equally to this work
24. **F. Sierro**, **B. Dubois**, **A. Coste**, **D. Kaiserlian**, **J.-P. Kraehenbuhl**, **J.-C. Sirard**. Flagellin stimulation of intestinal epithelial cells triggers CCL20- mediated migration of dendritic cells. PNAS 2001 Nov 20; 98 (24) : 13722-7
25. **A. Coste**, **J. Cohen**, **M. Reinhardt**, **J.-P. Kraehenbuhl**, **J.-C. Sirard**. Nasal immunisation with *Salmonella typhimurium* producing rotavirus VP2 and VP6 antigens stimulates specific antibody response in serum and milk but fails to protect offspring. Vaccine 2001 Jul 20; 19(30):4167-74.
26. **Hervé C.**, **Coste A.**, **Rouault A.**, **Fraslin J.-M.**, **Gautier M.**, First evidence of lysogeny in *Propionibacterium freudenreichii subsp. Shermanii*. Appl Environ Microbiol 2001 Jan ; 67 (1) : 231-8.
27. **A. Coste**, **J.-C. Sirard**, **K. Johansen**, **J. Cohen**, **J.-P. Kraehenbuhl**. Nasal immunization of mice with virus-like particles protects offspring against rotavirus diarrhea. J Virol 2000 Oct; 74 (19): 8966-71.

Reviews and book chapters

28. **Alix T. Coste** and **Sara Amorim Vaz**. Animal Models to study pathogenic fungi virulence and antifungal efficacy. Book chapter in **From Genomics to Resistance and the Development of Novel Agents**. Edited by **Alix T. Coste** and Patrick Vandeputte. Caister Academic Press Ltd, April 2015, ISBN: 978-1-910190-01-2.
29. **Vandeputte P.**, **Ferrari S.**, **Coste A.T.** Antifungal resistance and new strategies to control fungal infections, Int J Microbiol. 2012; 2012:713687.
30. **Sanglard D**, **Coste A**, **Ferrari S**. Antifungal drug resistance mechanisms in fungal pathogens from the perspective of transcriptional gene regulation. FEMS Yeast Res. 2009 Oct;9(7):1029-50.

Book

31. **Antifungals: From Genomics to Resistance and the Development of Novel Agents**
 Edited by **Alix T. Coste** and **Patrick Vandeputte**.
 Caister Academic Press Ltd, April 2015, ISBN: 978-1-910190-01-2.
 Reviewed by Dr. David S. Perlin in Clinical Infectious Diseases epub July 6, 2015, and Dr. John H. Rex in ChemMedChem, 7(10), epub 25 april 2015.