Curriculum Vitae

Anna de Breij was born on the 9th of December 1982 in The Hague, the Netherlands. In 2001 she passed her secondary school exam at the Gymnasium Haganum in The Hague and started studying Biology at the University of Leiden. During her studies she performed a first research internship at the department of Medical Microbiology of the Leiden University Medical Center (LUMC) under supervision of dr. E.J. Kuijper, where she developed a toxinotyping method for *Clostridium difficile*. In 2004, she obtained her bachelor's degree in Biology *cum laude*, and started the master Biomedical Sciences at the University of Leiden. Her second research internship at the department of Parasitology of the LUMC under supervision of dr. F. Hartgers focused on the influence of helminth infections on the immune response of children. In October 2005 she started her third internship at the department of Infectious Diseases of the LUMC under supervision of dr. L. Dijkshoorn and dr P.H. Nibbering, addressing the factors that are involved in the pathogenesis of *Acinetobacter baumannii*. After graduating *cum laude* in Biomedical Sciences in 2006, she started the study Medicine at the University of Leiden and obtained her master's degree in Medicine in 2008. Subsequently, she started as a researcher at the department of Infectious Diseases of the LUMC investigating compounds that enhance antibiotic activity to multidrug resistant bacteria in collaboration with the biopharmaceutical company Prosensa under supervision of dr. P. de Visser, dr. P.H. Nibbering and prof. dr. J.T. van Dissel. Furthermore, she continued working on the *Acinetobacter* project under supervision of dr. L. Dijkshoorn, dr. P.H. Nibbering and prof. dr. P.J. van den Broek, which culminated in the work described in this thesis. In October 2011 she pursued her career as postdoctoral researcher in the field of antimicrobial peptides and biofilm infections at the department of Infectious Diseases of the LUMC.

List of Publications

Koning RI, **de Breij A**, Oostergetel GT, Dijkshoorn L, Nibbering PH, Koster AJ. Cryo electron tomographic analysis of membrane vesicle formation by *Acinetobacter baumannii* ATCC19606^{T} at different growth stages. *Submitted*

Peleg AY, **de Breij A**, Adams MD, Cerqueira GM, Mocali S, Galardini M, Nibbering PH, Earl AM, Ward DV, Paterson DL, Seifert H, Dijkshoorn L. The clinical success of *Acinetobacter* species; genetic, metabolic and virulence attributes. *Submitted*

de Breij A, Haisma EM, Rietveld M, El Ghalbzouri A, van den Broek PJ, Dijkshoorn L, Nibbering PH. Three-dimensional human skin equivalent as a tool to study *Acinetobacter baumannii* colonization. Antimicrob Agents Chemother. 2012 ; 56(5): 2459-64.

de Breij A, Eveillard M, Dijkshoorn L, van den Broek PJ, Nibbering PH, Joly-Guillou ML. Differences in *Acinetobacter baumannii* strains and host innate immune response determine morbidity and mortality in experimental pneumonia. PLoS One. 2012; 7(2): e30673.

de Breij A, Dijkshoorn L, Lagendijk E, van der Meer J, Koster A, Bloemberg G, Wolterbeek R, van den Broek P, Nibbering P. Do biofilm formation and interactions with human cells explain the clinical success of *Acinetobacter baumannii*? PLoS One. 2010; 5(5):e10732.

de Breij A, Gaddy J, van der Meer J, Koning R, Koster A, van den Broek P, Actis L, Nibbering P, Dijkshoorn L. CsuA/BABCDE-dependent pili are not involved in the adherence of *Acinetobacter baumannii* ATCC19606(T) to human airway epithelial cells and their inflammatory response. Res Microbiol. 2009; 160(3): 213-8.

Hartgers FC, Obeng BB, Kruize YC, Duijvestein M, **de Breij A**, Amoah A, Larbi IA, van Ree R, Wilson MD, Rodrigues LC, Boakye DA, Yazdanbakhsh M. Lower expression of TLR2 and SOCS-3 is associated with *Schistosoma haematobium* infection and with lower risk for allergic reactivity in children living in a rural area in Ghana. PLoS Negl Trop Dis. 2008; 2(4):e227.