Valérie R. Louis, PhD

Research associate

Disciplines: Environmental health, Epidemiology,

Research areas: Malaria, Climate change and health

Background

Valérie studied biomedical engineering at the University de Technologie de Compiègne (UTC) and obtained a Master of Science at the Georgia Institute of Technology in Atlanta, Georgia, USA. After working five year as a lab technician in the Malaria Branch at the Centers for Diseases Control and Prevention in Atlanta, she got a PhD in Environmental Sciences at the University of Maryland, College Park. Her interests lay at the crossroad of epidemiology, environmental aspects and human health. She joined the Institute of Public Health at Heidelberg University in 2004.

Teaching

Valerie teaches environmental health in several courses of the Heidelberg Institute of Public Health and is a guest lecturer on these topics at other universities. She is the co-coordinator of two TropEd accredited short courses, “Climate Change and Human Health” with Rainer Sauerborn since its inception in 2007 and “Health and Human Rights” with Huzeifa Bodal since 2008.

Research

Valérie’s current work focuses on malaria, in particular bed net use in rural Burkina Faso.
She is interested in geographical epidemiology and the use of Geographic Information Systems for Public Health applications. With strong analytical skills and ability to manage large databases, she has been involved in a number of collaborative projects over the years and is recently taking part in a project evaluating the impact of climate change on the global burden of disease for dengue and malaria.

Selected publications

1. Yamamoto S, **Louis** VR, Sié A, Sauerborn R. Household risk factors for clinical malaria in a semi-urban area of Burkina Faso: a case-control study. **Trans R Soc Trop Med Hyg**. 2010 Jan;104(1):61-5. Epub 2009 Aug 28.

2. Müller O, Yé M, **Louis** VR, Sié A. Malaria in sub-Saharan Africa. **Lancet**. 2009 Jan 10;373(9658):122.

3. Barniol J, Niemann S, **Louis** VR, Brodhun B, Dreweck C, Richter E, Becher H, Haas W, Junghanss T. Transmission dynamics of pulmonary tuberculosis

between autochthonous and immigrant sub-populations. **BMC Infect Dis**. 2009 Dec 4;9:197.

4. Yamamoto SS, **Louis** VR, Sié A, Sauerborn R. The effects of zooprophylaxis and other mosquito control measures against malaria in Nouna, Burkina Faso. **Malar J**. 2009 Dec 9

5. Tipke M, **Louis** VR, Yé M, De Allegri M, Beiersmann C, Sié A, Mueller O, Jahn A. Access to malaria treatment in young children of rural Burkina Faso. **Malar J.** 2009 Nov 24;

6. Yé Y, **Louis** VR, Simboro S, Sauerborn R. Effect of meteorological factors on clinical malaria risk among children: an assessment using village-based meteorological stations and community-based parasitological survey. **BMC Public Health**. 2007 Jun 8;7(147):101.

7. **Louis** VR , Russek-Cohen E, O'Brien SJ, Pearson AD, and R.R. Colwell. Ecological modeling of Campylobacter cases in England and Wales (1990-1999). **Appl. Environ. Microbiol**. 2005; 71(1):85-92.