

## Curriculum vitae

### PERSONAL DATA

Full name Jennifer Irene Keiser  
Work address Department of Medical Parasitology and Infection Biology, Swiss Tropical and Public Health Institute (Swiss TPH), Socinstr. 57, CH-4051 Basel, Switzerland. Phone: +41 61 284-8218; e-mail: jennifer.keiser@unibas.ch  
Place, date of birth Munich, 5 October 1969  
Marital status Married, 2 children; born: 23 July 2000 and 12 September 2002

### EDUCATION AND DEGREES

2000–2003 **Postdoctoral Research in Demography and Epidemiology**  
Office of Population Research, Princeton University, Princeton, NJ, USA  
1997–1999 **PhD in Zoology**, Swiss TPH/University of Basel, Switzerland. Thesis: "Pharmacological investigations on current and new drugs for the treatment of human African trypanosomiasis"  
1990–1995 **MSc in Pharmacy**, University of Basel, Basel, Switzerland  
1990 **Abitur**, Gymnasium Ottobrunn, Ottobrunn, Germany  
1988 **High school diploma**, Mexia High School, Texas, USA

### POSTS HELD

10/2007– **Assistant Professor and Unit Leader**  
Unit: Helminth Drug Development; Swiss TPH, Basel, Switzerland  
10/2004–09/2007 **Project leader and Group leader**, Swiss TPH, Basel, Switzerland  
01/2004–09/2004 **Research Fellow**, Swiss TPH, Basel, Switzerland  
05/2000–12/2003 **Visiting Research Fellow (part time)**, Princeton University, Princeton, NJ, USA  
Maternity leaves: 7/2000-12/2000 and 9/2002-2/2003  
12/1999–05/2000 **Research Fellow**, Swiss TPH, Basel, Switzerland  
01/1997–11/1999 **PhD Student**, Swiss TPH, Basel, Switzerland & Karolinska Institut, Stockholm, Sweden  
03/1996–12/1996 **Pharmacist**, Weiher Schloss Apotheke, Bottmingen, Switzerland

### STUDENTS SUPERVISION (Principle supervision)

Current group: 5 postdoctoral students; 6 PhD students, 2 lab technicians.

Completed: 9 PhD students (plus 3 PhD students co-supervised), 11 MSc students and 2 research fellows.

### TEACHING ACTIVITIES

#### University of Basel

Specialised MSc in Epidemiology; Specialised MSc in Infection Biology;

- Interdisciplinary Research in Epidemiology and Infection Biology (2 ECTS; together with J. Utzinger and M. Tanner)
- Drug Discovery and Development for Tropical Diseases (2 ECTS; together with R. Brun)

Bachelor curriculum: Infection Biology and Epidemiology (Blockkurs)

Medizinische Fakultät: Themenblock Körper, Subjekt, Umwelt (student and thesis supervision)

## CURRENT RESEARCH FUNDING (SELECTED, >CHF 50,000)

Period	Funding agency	Title	Amount (CHF)
04/2014-04/2019	European Research Council (5 year personal career development grant)	Anthelmintic Research and Optimization	2,300000
07/2014-06/2017	Swiss National Science Foundation	Optimization strategies for old anthelmintic drugs: combination chemotherapy and pharmacokinetic studies	679,208
04/2015-04/2020	National Institutes of Health (NIH R01)	Optimization of Antischistosomal Chemotypes" Co- (PI))	650,000
11/2016-10/2018	Bill and Melinda Gates Foundation	Optimizing Drug Therapy against Soil-Transmitted Helminthiasis	1,600000

## SCIENTIFIC PUBLICATIONS

• As of January 2017, I have published 233 original articles and reviews in the peer-reviewed literature, including major interdisciplinary journals and in the top tier of specialized journals in pharmacy & pharmacology, parasitology, medical chemistry and tropical medicine. These articles reflect the interdisciplinarity of my research. I have published articles in the top ranking journals including the New England Journal of Medicine (impact factor (IF) of 59.55), JAMA (IF=37.68), the Lancet (IF= 45.21) and the Lancet Infectious Diseases (IF=19.44). In 136 of the 231 articles (59%), I serve as first and senior author. Collectively, these 231 publications result in an h-index of 42. Moreover, I have co-authored chapters of major tropical medicine or pharmaceutical textbooks (e.g. Rudolph's Pediatrics, Goodman & Gilman or Manual of Clinical Microbiology), editorials, expert commentaries, letters to the editor and book reviews.

## PRESENTATIONS

Below is a list of invited presentations given over the past 5 years

- Kolloquium Infektiologie und Mikrobiologie Universitätsspital Zürich. "Combination chemotherapy for soil-transmitted helminthiasis". Zurich, Switzerland, 01.12.2016.
- H3D 2016 Symposium. "Schistosomiasis and praziquantel: from dose-finding to pharmacokinetic studies". Cape Town, South Africa, 17.11.2016.
- 125 anniversary of *Opisthorchis felineus* discovery in Western Siberia. Insight into the problem in the XXI century. "Dose-finding and pharmacokinetic studies with praziquantel against *Opisthorchis viverrini*". Tomsk, Russia, 5.11.2016.
- Annual meeting of the Soil-Transmitted Helminthiasis Advisory Committee. "New drugs and drug combinations". Basel, Switzerland, 19.10.2016.
- Soil-transmitted helminth drug combination meeting hosted by the Bill and Melinda Gates Foundation. "Combination chemotherapy for soil-transmitted helminthiasis". Seattle, Washington, USA, 16.3.2016
- 9<sup>th</sup> Swiss Pharma Day. "Towards better treatment options for neglected helminths infections: from drug discovery to development". Bern, Switzerland, 31.8.2016.
- Keystone Symposium Drug Discovery for Parasitic Disease. Keynote: "Drug repurposing for schistosomiasis: from bench to field". Lake Tahoe, California, USA, 24.1.2016
- Interscience Conference of Antimicrobial Agents and Chemotherapy (ICAAC). Keynote: "Praziquantel for school-aged and preschoolers: from dose-finding to pharmacokinetic studies". San Diego, California, USA, 18.09.2015.
- European Congress for Tropical Medicine and Hygiene. Keynote: "Oxantel pamoate for the treatment of soil-transmitted helminthiasis and next steps". Basel, Switzerland 08.09.2015.
- World Health Organisation. Informal consultation on treatment of schistosomiasis in preschool-age children and pediatric praziquantel formulations. "Praziquantel for preschoolers: from dose-finding to pharmacokinetic studies". Geneva, Switzerland 28.09.2015.

- British Society for Parasitology. "Towards better drugs for trematode infections: field successes from pharmacokinetics to clinical trials". Liverpool, UK. 18.04.2014.
- Paul Ehrlich Gesellschaft für Chemotherapie. "Tribendimidine for the treatment of liver fluke infections". Weimar, Germany, 16.10.2014.
- World Health Organisation. "The MMV Box and schistosomiasis". Geneva, Switzerland, 9.03.2014.
- Anthelmintics: Discovery to Resistance. Invited opening keynote: "Tackling Trichuris: from bench to field". San Francisco, California, US, 06.02.2014.
- Merck Serono Town Hall meeting. Keynote: "Neglected tropical diseases: from burden to control". Darmstadt, Germany, 13.12.2013
- European Congress for Tropical Medicine and Hygiene. Symposium organizer: Progress towards alternative anthelmintic drugs. Presentation: "A randomized controlled trial to assess the efficacy of oxantel pamoate-albendazole against *Trichuris trichiura* and concomitant hookworm infection". Copenhagen, Denmark, 11.09.2013
- 61st Meeting of the American Society of Tropical Medicine and Hygiene. "Mefloquine-praziquantel for the treatment of *Schistosoma haematobium* infections in school-aged children in Côte d'Ivoire". 15 November 2012, Atlanta, Georgia, USA.
- University of Geneva Career Day. Invited keynote lecture: "Working in an academic environment: Swiss Tropical and Public Health Institute". 21 May 2012, Geneva, Switzerland.
- Advisory Board Meeting Paediatric Praziquantel. Invited keynote lecture: "Concomitant infections and co-administration in children". 28 March 2012, Geneva, Switzerland.
- 60th Meeting of the American Society of Tropical Medicine and Hygiene. "Mefloquine revisited". 5 December 2011, Philadelphia, USA (symposium organizer).
- 23rd Meeting of the World Association for the Advancement of Veterinary Parasitology. Invited keynote lecture "Food-borne trematodiasis: drug discovery, global burden and integrated control". 23rd August 2011, Buenos Aires, Argentina.
- British Society for Parasitology. "Progress towards alternative antischistosomal drugs". 13 April 2011, Nottingham, UK.

## **OTHER ACTIVITIES**

### **External peer-reviewing**

• I have refereed 300+ articles for different journals, including high impact factor journals (e.g. the Lancet, New England Journal of Medicine) in the fields of chemistry, infectious diseases; medicine, general & internal microbiology; pharmacology & pharmacy; parasitology and tropical medicine and done external peer-reviewing of many grant applications (e.g. MRC, Wellcome Trust). I have evaluated several external PhD theses (e.g. Tina Hanssen, University of Copenhagen (2014)).

### **International advisory boards (current)**

- Advisor and consortium board member Praziquantel Pediatric Formulation (Consortium formed by Merck Serono, Astellas, TI Pharma) and tribendimidine consortium (Path, Chinese partners).
- Advisor and consortium board member TOPIC (Tomsk Opisthorchiasis Consortium)

### **Editorial boards**

• I am an academic editor of *PLoS Neglected Tropical Diseases*, *PLoS One*, *International Journal of Parasitology* and *Advances in Parasitology*.