

# Curriculum Vitae

## Rainer Sauerborn



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## **EDUCATION**

- 4-9/2105 UNIVERSITÉ PARIS SORBONNE CITÉ  
"MOOC Factory, Centre de Santé Publique Virchow-Villermé"  
**Developing Massive Online Courses**, training on the job
- 07/2005 STANFORD UNIVERSITY, SCHOOL OF MANAGEMENT  
Executive course on **Leadership and Change Management**
- 1997 MEDICAL LICENCING BOARD NORDBADEN, GERMANY  
**Specialty Licence „Tropical Medicine“** (Zusatzbezeichnung Tropenmedizin)
- 1990-94 HARVARD SCHOOL OF PUBLIC HEALTH, BOSTON, USA  
**Dr. P.H. (Doctor of Public Health 6/94)** in the Dept. of Population and International Health. Concentration in Health Economics  
*Dissertation:* Household strategies to cope with the economic costs of illness. A study of rural communities in Burkina Faso.  
*Honors:* Scholarship of the DAAD (German Academic Exchange Service)
- 1989-90 HARVARD SCHOOL OF PUBLIC HEALTH, BOSTON, MA  
**M.P.H. (Master of Public Health) 6/90)** Concentration in Epidemiology
- 1983-89 HEIDELBERG MEDICAL SCHOOL, GERMANY, DPT. OF PEDIATRICS,  
**Pediatric Specialty Training Certificate** (4/89) of the German Pediatric Association Pediatric residency with a focus on infectious diseases, neonatal care and tropical pediatrics
- 07/1985-12/1986 LONDON UNIVERSITY, INSTITUTE OF CHILD HEALTH  
**M.Sc. in Mother and Child Health** (12/96)  
*Dissertation:* Predictors of low birth weight for use by trained traditional birth attendants
- 08-09/1979 INSTITUT FÜR ÖFFENTLICHES GESUNDHEITSWESEN UND TROPENHYGIENE,  
UNIVERSITY OF HEIDELBERG, GERMANY  
**Diploma: "Medicine in Developing Countries"** (9/79)
- 01/1978 ÄRZTEKAMMER BADEN-WÜRTTEMBERG  
**License to practice as a physician**
- 1975/1976 GERMAN CANCER RESEARCH INSTITUTE, HEIDELBERG, GERMANY  
**Ph.D.** in Experimental carcinogenesis (12/76)  
*Dissertation:* Pulse cytophotometric measurement of the DNA-distribution in DMBA-induced cancer of mouse epidermis as well as of healthy and 14-o-TPA stimulated mouse epidermis.  
*Honors:* Magna cum laude

1970-76 BONN (70-73) & HEIDELBERG (73-76) MEDICAL SCHOOLS  
**M.D. (12/76)** - MD-PhD Program

### **PROFESSIONAL EXPERIENCE**

4/2015-12/2015 CENTRE DE SANTE PUBLIQUE VIRCHOW-VILLERME, UNIVERSITÉ SORBONNE-CITE, PARIS  
Development of Massive Online Open Course in Climate Change and Health for different audiences, research proposal development

06/2010-2014 INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC)  
"Lead Author", Chapter 11 "Human Health", Working Group II, for the 5<sup>th</sup> Assessment Report"

Since 06/2010 CENTER FOR DEVELOPMENTAL STUDIES, (ZEF), BONN UNIVERSITY  
Research Fellow

03/2009-today UMEA UNIVERSITY, SWEDEN  
DEPT. OF EPIDEMIOLOGY AND GLOBAL HEALTH, Centre for Global Health Research  
Guest Professor for "Global Health and Climate Change"

03/1996-today HEIDELBERG UNIVERSITY, GERMANY,  
DEPARTMENT OF TROPICAL HYGIENE & PUBLIC HEALTH,  
Chair (since 3/96) and Director of the Department (since 5/97)

2000-2004 "SCIENTIFIC ADVISORY BOARD FOR GLOBAL ENVIRONMENTAL CHANGES"  
(WBGU) OF THE FEDERAL GOVERNMENT OF GERMANY  
Appointed by Ministers of Science and Environment

07/1999-6/2011 SPECIAL RESEARCH CENTER (SONDERFORSCHUNGSBEREICH) SFB 544:  
"CONTROL OF TROPICAL INFECTIOUS DISEASES" OF THE DEUTSCHE FORSCHUNGSGEMEINSCHAFT<sup>1</sup>  
Initiated the project, Coordinator ("Sprecher") from 7/99 through 6/02, deputy speaker since 7/02 with Hans Georg Kräußlich taking over the coordinator role.

1997-today RESEARCH FOCUS (FORSCHUNGSSCHWERPUNKT) "TROPICAL MEDICINE HEIDELBERG" (GRANT OF THE FEDERAL MINISTRY OF SCIENCE AND TECHNOLOGY 1994-99)  
Speaker since 4/1997, reporting to an International Scientific Advisory Board

07/1991-02/1996 HARVARD INSTITUTE FOR INTERNATIONAL DEVELOPMENT (HIID)  
Institute Associate (tenure track), from 1993-1996 "Acting Coordinator" of the HIID Health Office

07/1993-02/1996 TUFTS UNIVERSITY, DEPARTMENT OF COMMUNITY MEDICINE  
Associate Clinical Professor  
Course director of "Introduction to Global Health" for MD/MPH students

01/1992-today RESEARCH COOPERATION BETWEEN THE "CENTRE DE RECHERCHE EN SANTE DE NOUNA" IN BURKINA FASO AND THE UNIVERSITY OF HEIDELBERG  
Coordinator

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<sup>1</sup> DFG is the equivalent of the National Science Foundation (NSF) of the US

- 06-09/1986 MEDICAL FACULTY OF OUAGADOUGOU UNIVERSITY, BURKINA FASO  
 Visiting scholar  
 1) Director of a study on anthropometric risk indicators in newborns. Supervision of two Burkinian and one German doctoral student  
 2) Co-founder of the Faculty partnership between the medical faculties of Ouagadougou and Heidelberg University.
- 09/1983-09/1989 HEIDELBERG MEDICAL SCHOOL, DEPARTMENT OF PEDIATRICS  
 Resident in clinical pediatrics and reader in Tropical Pediatrics and Organization of MCH -Services. Doctoral advisor for two medical students.
- 04-08/1983 KRANKENHAUS SALEM, HEIDELBERG  
 Resident in obstetrics and gynecology
- 09/1979-01/1983 DISTRICT HOSPITAL NOUNA, BURKINA FASO  
 District Medical Officer in the Nouna district of Burkina Faso. Responsible for the management as well as the medical, surgical and obstetric care at the 120 bed district hospital and 12 health clinics in the district (150.000 inhabitants). Duties included on-the-job training and supervision of the professional staff (63) of the health district, for training and supervision of community health workers, mass immunizations, EPI, control of diarrheal diseases, family planning, control of endemic diseases (guinea worm, schistosomiasis, leprosy and trachoma)
- 02-08/1979 DUMBARTON DISTRICT HOSPITAL, SCOTLAND  
 Senior House Officer in obstetrics
- 09/1977-01/1979 ST. JOSEPH KRANKENHAUS, LORSCH, GERMANY  
 Resident in general surgery and emergency medicine
- 01-08/1977 UNIVERSITY HOSPITAL, HEIDELBERG, GERMANY  
 Clinical rotations through internal medicine, surgery and pediatrics.

## **TEACHING EXPERIENCE**

### **1. Medical Students (graduate teaching)**

- 1996-today**      **HEIDELBERG MEDICAL SCHOOL**  
**Graduate teaching (medical students), under the HeiCuMed program**
- Developed as convener a three week full time module on Public Health for medical students (module leader): Health economics, prevention, health services delivery, health systems
  - Public Health of Infectious diseases
- 1993-02/1996**      **TUFTS UNIVERSITY, MD-MPH program**
- As associate clinical professor, taught the module **"International Health"** for students in the MPH/MD program.

### **2. Postgraduate teaching (M.Sc. and doctoral levels)**

- Launch: 10/2015**      **MOOC (massive open online course) "The Health Argument in Climate Negotiation"**  
2 d executive course for policy-makers – platform "Iversity, Berlin"
- Launch 11/2015**      **MOOC "Climate change and Health: impacts, adaptation and co-benefits"**  
5 wks for all audiences – platform "Iversity, Berlin"
- Launch 2/2016**      **MOOC "Changement Climatique et Santé dans le Context de l'Afrique"**  
In collaboration with the Nouna Health Research Center, Ouaga University and the Burkinian meteorological office.  
Platform FUN (France Université Numérique)
- Start 10/2105**      **Maitrise en Santé Publique (MPH), Ouagadougou, Burkina Faso**  
**Co-director of MPH**  
Ouagadougou University School of Public Health
- 2009-10**      **"Research methods for the study of climate change and health" (three weeks, 7 ECTS credits), Umeå University, Sweden.**  
Course director,  
accredited with Umeå University, open to doctoral students and post-doc with a research project on the topic
- Since 2008**      **"Climate change and health: impacts and adaptation strategies" - Short course (two weeks, 3 ECTS credits), Heidelberg University**  
Course director,  
accredited with TropEd and ACQUIN, standalone module and part of the Master in International Public Health
- Since 2007**      **"Leadership and change management in health care" - Short course (two weeks, 3 ECTS credits), Heidelberg University**  
Course director,  
accredited with TropEd and ACQUIN, standalone module and part of the Master in International Public Health
- Since 2006**      **"Financing health care in developing countries (focus insurance)" - Short course (two weeks, 3 ECTS credits), Heidelberg University**  
Course director,  
accredited with TropEd and ACQUIN, standalone module and part of the Master in International Public Health

**2002-2011 Graduate doctoral program "GK273 Epidemiology of infectious and non-communicable diseases and their interaction", HEIDELBERG UNIVERSITY**

**(Coordinator: Heiko Becher)**

Taught epidemiological and demographic field methods, health outcomes assessment. Supervised three doctoral students from the Grad. College.

**2005-today M.Sc. of International Public Health, HEIDELBERG UNIVERSITY  
Course director**

*Team development of curriculum, based on M.Sc. Community Health and Health Management, taught from 1986 through 2004.*

*Supervision of 29 M.Sc. theses between 1996 and 2007.*

The course covers the field of public health viewed from an international angle. It is built in a modular way: a base module of 20 ECTS is compulsory for all, thereafter the course splits in two tracks:

- 1) **European track** (within the TropEd network of 29 European Universities): exchange of at least 15 ECTS of mutually accredited courses with a European partner university, M.Sc. (20 ECTS) at Heidelberg University
- 2) **Heidelberg track** - this allows the student to take the entire course at Heidelberg University. 20 ECTS points of short two weeks teaching module can be picked from a menu of currently 11 courses.

Students in both tracks need to write a dissertation (20 ECTS).

The course is offered on with a tuition, which is gradually covering the full costs of teaching.

**2002-2004 M.Sc. of Health Economics – course director  
HEIDELBERG UNIVERSITY and NEW ECONOMICS UNIVERSITY,  
HANOI**

**Developed and taught 20% of new course**

Leading to a Heidelberg University M.Sc. degree

- ⇒ This is a full time one-year course on health economics, taught by Heidelberg University faculty, funded by The World Bank. Our and our Vietnamese partners' perspective is to perpetuate the course as a joint degree building on modern technology of distant teaching.

**1991-  
02/1996 HARVARD SCHOOL OF PUBLIC HEALTH**

*Guest lecturer:*

(i) "Geographical information systems - a tool for decision making for health planners and managers" in the executive summer course "Management of Health Care in Developing Countries" (course director: Paul Campbell).

(ii) "Combining qualitative and quantitative field methods" in the course "Epidemiological Field Methods" (course director: Uwe Brinkmann).

(iii) "Malaria - its economic impact on households", in the course "Biology, epidemiology and economy of malaria" (course director: Andrew Spielman).

(iv) "The impact of illness on the household economy", in the course "Health and the Household Economy in Developing Countries" (course director: Peter Berman).

09/1994-  
02/1996

**HARVARD INSTITUTE FOR INTERNATIONAL DEVELOPMENT**

(i) **Course Director of the "Executive Summer Course in Health Care Financing in Developing Countries"** (6 weeks). The curriculum development, the first course was scheduled for summer 1996, but not held because of my departure to Heidelberg.

(ii) Curriculum development of the health care modules for the IDB Executive Summer Course **"Social Sector Policy in Latin America"**. The modules deal with:

- Assessment of the efficiency and equity effects of health systems
- The optimal roles of the public and private sectors within health systems
- The contribution of the health sector for production and economic growth
- National Health Accounts
- The Disability Adjusted Life Years (DALY) approach for prioritizing health care interventions based on cost-effectiveness

1995, 1998

**HEALTH SERVICES ACADEMY, ISLAMABAD, PAKISTAN**

**Health economics** module in the MPH program

1986-89

**PEDIATRIC HOSPITAL OF HEIDELBERG UNIVERSITY, SCHOOL OF NURSING**

**Bedside teaching** for MD students; lecturing in tropical pediatrics, international health and health system research. Co-supervisor of two doctoral candidates.

1983-today

**HEIDELBERG INSTITUTE OF TROPICAL HYGIENE AND PUBLIC HEALTH**

Lecturer in the course **"Medical care in developing countries"**. Subjects: Global health policy, immunization, management of district health care, monitoring and evaluation

1983-1985

**PEDIATRIC HOSPITAL OF HEIDELBERG UNIVERSITY, SCHOOL OF NURSING**

Course in anatomy, physiology and clinical medicine

**RESEARCH and TEACHING GRANTS**

**1) Acquired grants (as Principal Investigator)**

**Summary:**

After appointment as Chair in Heidelberg (1998-2014) 36,0 million € = 2,1 m €/year  
At Harvard University HIID (1992-1997) 6,8 million \$ = 1,4 m \$/year  
At Heidelberg University Hospital (1985-1993) 1,7 million DM = 0,19 DM/year  
(during pediatric specialty training)

Year	x 1,000 €	Funding source	Project -#	Project description
2015- 2020	307	BMBF/DZIF	HepEpiAfr	Epidemiology of chronic viral Hepatitis in Nouna, Burkina Faso
2015- 2018	250	BMBF/DZIF	TI-APS	Infrastructural measure: Strengthening research capacity of African DZIF partners (PI Jürgen May)- continuation grant
2014- 2018	1,300	EU-JPI	HOPE	Household Preferences for reducing greenhouse gas Emission on four European High Income Countries
2013- 2016	480	Lauten- schläger Foundation	EMIRA	Ecological Malaria Management in Burkina Faso
2013- 2015	487	World Bank	PBF-base	Scientific evaluation of a nationwide policy introducing performance-based incentives into mother and child care -2

2013-2015	52	World Bank	PBF-pilot	Scientific evaluation of a nationwide policy introducing performance-based incentives into mother and child care -1
2012-2015	220	DAAD	PAGEL 56267632	Master and Doctoral program in Public Health with and at Ouagadougou University, Burkina Faso
2010-2015	305	EU-FP7	ISSC	An integrated surveillance system for infectious disease in rural China: generating evidence for early detection of disease outbreaks in resource-poor settings (WP leader with Hengjin Dong) 7th Framework Program EU
2012-2015	600	Federal Ministry of Research (BMBF), Helmholtz Society	DZIF (German Center for Infectious Disease Research)	(i) Infrastructural measure: Strengthening research capacity of African DZIF partners (PI Jürgen May) (ii) Sub-project 8.4. Malaria co-infections (PI Jürgen May)
2009-2014	3000	EU-FP7	QUALMAT	Improving the quality of maternity care through 1) performance-based incentives and 2) decision support systems (partners: Karolinska Institute, Sweden; Gent University, Belgium; Nouna Health Research Center, Burkina Faso; Navrongo Health Research Center, Ghana; Muhimbili University, Tanzania).
2011/2	220	BMBF/ Helmholtz Society	DZIF	Pilot project: Analyzing capacity and capacity needs of four African Research (partners: Nouna, Burkina; Kumasi, Ghana; Lambaréné (Tübingen) and Mbeya (München))
2010-2013	240	French Ministry of Research	PALUCLIM	Biological larvicidal control measures on surface water collection, guided by risk maps from remote sensing of land cover and land use
2011	2.5	UNESCO	CLIMIMO	Climate change, migration and mortality in 13 research sites of the INDEPTH network in Africa and Asia
1999-2011	1.500 /y	DFG	SFB 544	Control of tropical infectious diseases (Founding coordinator and shared coordinatorship with Michael Lanzer, Molecular Parasitology). Ad personam projects within the SFB: ➤ Project D2: Community-based health insurance 1999-2011 ➤ Project D5: Economic evaluation of interventions delivered at the community level (with C. Schmidt (PI) and R. Baltussen) 1999-2002 ➤ Project Z1: Speaker of the SFB 1999-2002
2010	85	WHO	CRA_MalDe n	Climate attributable changes of the burden of disease form Malaria and Dengue – Global Burden of Disease Program (from Umeå professorship)
2005	300* /2y	BMBF <sup>2</sup>	Sustainable megacities of the future	Joint project* with Prof. B. Eitel as Principal Investigator, project pilot phase under the "Megacities of Tomorrow" BMBF Focus (Schwerpunktprogramm), with BASF, City Council of Heidelberg, Dept of Environment, and other private and public institution of the Metropolitan Area of Rhein-Neckar.
2005	750	State Ministry of Research Baden-W.	CRSN-3	Follow up grant on CRSN-2 (together with Prof. Kräußlich). The focus of this grant is on creating clinical research capacity in conjunction with the local district hospital and to create the capacity to integrate environmental/climate data in the demographic surveillance.

<sup>2</sup> BMBF=Federal Ministry of Research and Education of Germany

2004	1.100	World Bank	M.Sc. IPH	Development and teaching of a new track "International Health Care Management" within the accredited M.Sc. in International Public Health (M.Sc. IPH)
2002	750	State Ministry of Research Baden-W.	CRSN-2	Follow up grant on CRSN-1. The focus of this grant is on creating clinical research capacity in conjunction with the local district hospital and to create the capacity to integrate environmental/climate data in the demographic surveillance.
2002	1.300 <sup>3</sup>	DFG	GK793	Research Training Group GK 793 "Epidemiology of communicable and non communicable diseases and their interaction" (Speaker: Heiko Becher of the Dept. of Tropical Hygiene and Public Health). This is a post graduate research program in which funds 15 doctoral fellows, of whom 2 are supervised by Rainer Sauerborn.
2002	800/3y	EU-FP6	MAMOP	Improving the management of childhood malaria: an experiment to bridge the gap between mothers and health care providers. With Karolinska Institute, Nouna Health Research Center, Burkina Faso and Muhimbili University, Tanzania.
2001	97/1y	EU-FP6	LINK_HS R-TAP	Establishing and reinforcing links between EU-financed health systems research and technical assistance projects for health sector reform policy development in countries from the south: 7 partners from EU and developing countries.
2000	250/2y	World Bank	M. Sc. in Health Economics(Hanoi)	A Heidelberg teaching expert: M.Sc. Health Economics: Curriculum development and first round of teaching in Hanoi, Vietnam.
2000-2004	120	BMBF	WBGU	Research assistant (1/2 position for 4 years) to the RS as member of the „Scientific Council to the Federal Government on Global environmental Change" ("Wissenschaftliche Beirat der Bundesregierung zu globalen Umweltveränderungen (WBGU)")
1999	750	Land of Baden-Württem.	Cooperation with CRSN <sup>4</sup> ,	Infrastructure and running costs for a multi-disciplinary Nouna Health Research Center as Partner of the SFB
1998	440	EU, FP5		Strategies to improve the use of research for health sector reform (concerted action with 11 partners)
1995	3.300	World Bank		Technical Assistance to the Palestinian Health Authority
1995	280	EU	-	Community-based Prepayment and Health Insurance Schemes in Rural Burkina Faso and Ghana: an Intervention Study. Partners: London School of Hygiene and Trop. Med., Ghana Ministry of Health, Burkina Faso Ministry of Health.
1995	64	World Bank	48-092-0001-1-30	6-week course "Econometric modeling of health care demand" - instructor: Paul Gertler
1985	427	EU	TSD-053-D(B)	Solenzo Gesundheitssystemforschung, Burkina Faso
1994	775	German Ministry of Science & Technology	01KA9301	The impact of improving mothers' home treatment and mothers' access to health services on infant mortality (Burkina Faso)
1994	54	UNICEF	94-043	"Child Survival Bridge Project" , Cameroon

3 This is the sum for the ENTIRE postgraduate program, in which RS tutors 2 of 15 doctoral students, GK coordinator is Heiko Becher of the Institute of Public health (Deputy Director)

4 CRSN=Centre de Recherche en Santé de Nouna, Burkina Faso



1993	1.912	USAID	631-0056-C-00-7096-00, a	"Maternal and Child Health Project", Cameroon, project extension (1 year)
1993	507	EU	TS3 CT 92-0078	Idem, project extension (2 years)
1989	585	EU	TS2-0306 D(MB)	Burkina intervention study to assess health impact of health policy changes, Burkina Faso
1985	640	EU	TSD-053-D(B)	Solenzo Health System Research Project, Burkina Faso

## **CONSULTING**

No further consulting accepted since 1998

- 1997 Etude de faisabilité pour un observatoire de santé au Mali. Bamako Mali. (for the Projet de Santé Publique et d'Hydraulique Rural (funded by World Bank, UNICEF, USAID and KfW). March 1997.
- 1996 Teaching of Health Economics Module at the Health Services Academy, Islamabad, Pakistan.
- 1995 Participation in a team of EC-consultants assisting the Ministry of Health of Palestine in the Development of a Strategy for future health research in Palestine, *Gaza, Palestine*, September 18-21, 1995 (for the EC).
- 1995 Curriculum development for the post-graduate course in "Health Economics" of the new MPH course of the "Health Services Academy, Islamabad" of the Ministry of Health, *Islamabad, Pakistan*. July 20 – August 8, 1995 (for GTZ).
- 1995 Member of expert panel for the review of research proposals in the field of vaccine development and applications submitted to the European Community. *Brussels, Belgium*, June 19-23, 1995 (for the EC).
- 1995 Modeling the elasticity of demand for health care in urban Bolivia (with Marina Cárdenas and Paul Gertler), UDAPSO-project, *Cambridge, USA* (for USAID).
- 1994 Design and implementation of a Geographical Information System for the Social Sector of Bolivia. UDAPSO project, *La Paz, Bolivia* (for USAID).
- 1992 Design of a Health Management Information System for the MCH project, *Yaoundé, Cameroon* (for USAID).
- 1991 Co-financing and Co-management of provincial health services through "Provincial Health Funds" in Cameroon, MCH-project, *Yaoundé, Cameroon*, (for USAID).
- 1986 Development of anthropometric predictors of low birth-weight for the MOH, Burkina Faso (for the EC).

## **AWARDS**

- INDEPTH mentorship award 2009
- Chevalier de l'Ordre National du Burkina Faso, 2004 (equivalent to the German «Bundesverdienstkreuz »)
- Scholarship of the DAAD (German Academic Exchange Service), special award for epidemiology (1989-91)
- Magna cum laude (Ph.D. thesis)
- Scholarship of the "Studienstiftung des Deutschen Volkes" (1970-76) – comparable to the Rhodes fellowship program of the US, since 2001 Mentor of Studienstiftung scholars

## **LANGUAGES**

	Fluent	Good	Basic
German	mother tongue		
English	X		
French	X		
Spanish	X		
Latin		Reading	
Bambara*		X	
Turkish		X	
Swedish		X	

\*language spoken in Mali and large parts of Burkina Faso

## **COMPUTER SKILLS**

Statistics/Econometrics	SPSS, Stata, SAS, Epi-Info
Demography	Mortpak (indirect estimation of mortality and fertility), Stata
GIS	ArcView
Qualitative research	Ethnograph, AtlasTi, NVivo
Relational database	Microsoft Access
Spreadsheet	Excel for Windows
Project planning	Microsoft Project, On Target
Staff management	Manage Pro
Word processing	Microsoft Word
Bibliographic software	Reference manager,
Graphics	Draw, Corel, Micrografix Designer Suite
Presentations	Microsoft Power Point
Concept development	Mind Manager

## **MEMBERSHIP IN SCIENTIFIC ADVISORY BOARDS**

**Leopoldina – Nationale Akademie der Wissenschaften, German National Academy of Science**, Member of The Scientific Committee „Health“, since 2013.

**Institut Pasteur, School of Public Health (with CNAM)**, since 1/2007.

**Wellcome Trust, UK**, 2/2002 through 2/2004, and since 2011.

**Sanofi**, France, Scientific Advisory Council on "Climate Change and Health" (2105)

**Ministère de l'Ecologie et du Développement Durable, Gouvernement Français :** Conseil Scientifique: Gestion des Impacts du Changement Climatique (GICC) since 2005.

**German Federal Government;** Scientific Advisory Board for „Global Environmental Change and Health“ (**Wissenschaftlicher Beirat der Bundesregierung für Globale Umweltveränderungen - WBGU**) (appointment by Federal Cabinet decision) 2000-2004.

**National Committee for Global Change Research, NKGCF, German Science Foundation (DFG)** 2001-2005.

**Micro Insurance Academy, New Dehli.** Member of the Advisory Board, since 8/2007.

**Turkish-German Health Foundation,** Member of the Scientific Advisory Board, since 2002.

**INDEPTH Research Network** (Intl. Network of Research sites with Demographic Evaluation of Populations and Their Health), Scientific Advisory Council, 2002-2007.

**Emerging Diseases in Europe Network (EDEN)** Scientific Advisory Board Member, Coordination: Oxford University, 2005-2007.

**Earth System Science Program (ICSU),** Member of writing team of science plan for project: Human Health and Global Change. 11/2003-10/2005

**Wellcome Trust.** Program review for public health/epidemiology, 2003-2004.

**Université Pierre et Marie Curie, Paris** Conseil Scientifique de l'Ecole Doctorale de Santé Publique, since 2001.

## ***MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS***

Leopoldina – Nationale Akademie der Wissenschaften,  
International Health Economics Association (IHEA)  
International Union for the Scientific Study of Populations (IUSSP)  
American Public Health Association (APHA)  
International Society for Quality of Care (ISQua)  
International Physicians for the Prevention of Nuclear War (IPPNW)  
New York Academy of Sciences  
Turkish-German Health Foundation  
German Association for Tropical Medicine (DTG)  
German Association for Tropical Pediatrics  
Gesellschaft Deutscher Naturforscher und Ärzte  
International Society of Travel Medicine

## ***PERSONAL INFORMATION***

Born on March 1, 1952 in Waldniel/Niederrhein, Germany  
Married to Eser Sauerborn MD, since 1986  
Four children: Djan, born 1986 (boy), Mayda, born 1989 (girl), Timur, born 1992 (boy) and Ela, born 1993 (girl)  
Hobbies: listening to classical music, playing the piano, ethnic cooking, jogging, gardening, hiking, x-country skiing, cycling, world history, philosophy

## **TUTORING OF DOCTORAL STUDENTS AND HABILITATIONS**

### **1. SUPERVISED DOCTORAL STUDENTS**

#### **1.1. COMPLETED DISSERTATIONS (30)**

22,5 % summa cum laude (Heidelberg University average: 1%)

66% magna cum laude

Average time till degree: 3,9 years

#	Name, first name	Country of origin	Discipline of candidate	Degree	Date of award	Durat'n (years)	Grade awarded
37	Dalaba, Maxwell	Ghana	Economics	Dr.Sc.	2016	3.5	Magna cum laude
36	Haq, Aminul	Bangladesh	Sociology	Dr.Sc.	2015	3.5	<b>Summa cum laude</b>
35	Stahl, Christian	Germany	Economics	Dr.Sc.	2015	4	Cum laude
34	Anja Kluge	Germany	Political Sciences	Dr. rer. Pol.	2015	5	Magna cum laude
33	Cofie, Patience	Ghana	Journalism	Dr.Sc.	2015	6	Cum laude
32	Ding, Yan	China	Management	Dr.Sc.	2015	3.5	Magna cum laude
31	Aji, Budi	Indonesia	Sociology	Dr.Sc.	2014	5	Magna cum laude
30	Shafiu, Mohammed	Nigeria	Pharmacy	Dr.Sc.	2014	4	<b>Summa cum laude</b>
29	Prytherch, Helen	U.K.	Public Health	Dr.Sc.	2013	3	<b>Summa cum laude</b>
28	Robyn, Jake	USA	Sociology	Dr.Sc.	2013	4	Magna cum laude
27	Hii, Yien Ling <sup>o</sup>	Singapore	Statistics	Ph.D.	2013	4	Swedish doctor: passed
26	Parmer, Divya	India	Economcis	Dr.Sc.	2012	4	Magna cum laude
25	Dambach, Peter	Germany	Geography	Dr.Sc.	2012	3	<b>Summa cum laude</b>
24	Yrjoe-Koskinen, Jaakko	Finland	Medicine	Dr.Sc.	2012	5	Magna cum laude
23	Shafik, Amal	Egypt	Dentistry	Dr.Sc.	2012	4	Magna cum laude
22	Ahmad Malak	Pakistan	Medicine	Dr.med.	2011	3	Magna cum laude
21	Yamamoto, Shelby	Canada	Env'tl health	Dr.Sc.	2010	4	Magna cum laude
20	Pfeiffer, Karolin	Germany	Medicine	Dr.med	2009	5	Magna cum laude
19	Gnawali, Devendra	Nepal	Economics	Dr.Sc.	2009	2.5	Cum laude
18	Loukanova, Svetla	Bulgaria	Medicine	Dr.med	2008	3	Magna cum laude
17	Carrera, Percivil	Phillippines	Law	Dr.Sc.	2007	3	Magna cum laude
16	Akunne, Anayo	Nigeria	Pharmacy	Dr.Sc.	2006	3.5	Magna cum laude
15	De Allegri, Manuela	Italy	Sociology	Dr.Sc.	2005	3	<b>Summa cum laude</b>
14	Yé, Yazoumé	Burkina Faso	Geography	Dr.Sc.	2005	3	Magna cum laude
13	Zoungrana, Alfonse	Burkina Faso	Medicine	Dr.Méd*	2005	3	Distinction
12	Mujinja Phare	Tanzania	Ecnomics	Dr.Sc.	2005	4	Magna cum laude
11	Wladarsch, Evelyn	Germany	Ethnology	Dr. phil**	2004	4	<b>Summa cum laude</b>
10	Pokhrel, Subhash	Nepal	Ecnomics	Dr.Sc.	2004	2.5	<b>Summa cum laude</b>
9	Hayat, Budi	Indonesia	Ecnomics	Dr.Sc.	2004	3	<b>Summa cum laude</b>
8	Horchler, Sonja	Germany	Sociology	Dr.Sc.	2004	4	Magna cum laude
7	Mietens, Annette	Germany	Medicine	Dr.med.	2004	3	Cum laude
6	Usfar, Avita	Indonesia	Nutrition	Dr.Sc.	2003	3	Magna cum laude
5	Mugisha, Fred	Uganda	Statisticis	Dr.Sc.	2002	2.5	Magna cum laude
4	Sameen, Siddiqi	Pakistan	Medicine	Dr.med.	2002	4	Magna cum laude
3	Kowalewski, Marga	Germany	Medicine	Dr.med.	2001	3	Magna cum laude
2	Roll, Clemens	Germany	Medicine	Dr.med.	2000	4	Magna cum laude
1	Benzler, Justus	Germany	Medicine	Dr.med.	2000	4	Magna cum laude

\* Doctorat en Médecine", Co-tutor with Prof. M. Sawadogo, Dean, Medical Faculty, Ouagadougou

\*\* Doctoral supervision with Prof. J. Wassmann, Institute of Ethnology, Heidelberg University

<sup>o</sup> co-supervised as guest professor at Umeå University with Drs. Nawi Ng and Joacim Rocklöv as supervisors

## 1.2. DISSERTATIONS CURRENTLY UNDER SUPERVISION (15)

	Name, first name	Country of origin	Discipline of candidate	Start	Planned defense	Degree
13	Kristine Bellesova*	Latvia	Nutritional Epidemiology	2014	2018	Ph.D.
12	Kawan, Rasmila	Nepal	Nursing	2016	2018	Dr.Sc.
11	Bilkis Banu*	Bangladesh	Education	2015	2018	Dr.Sc.
10	Vandenbergh, Alina	Germany	Medicine	2012	2016	Dr.med.
9	Chebby-Bunker, Aditi	New Zealand	Biology/MPH	2012	2016	Dr.Sc.
8	Lietz, Henrike*	Germany	Business/MPH	2012	2015	Dr.Sc.
7	Farzana, Yazmin*	Bangladesh	Medicine	2012	2016	Dr. med.
6	Saronga Happiness**	Tanzania	Public Health	2010	2015	Dr.Sc.
5	Patricia Codyre	Ireland	Computer Science	2010		
4	Fei, Yang <sup>o</sup>	China	Biostatistics	2011	2015	Dr.Sc.
3	Yé Maurice, M.Sc.**	Burkina Faso	Medicine	2010	2015	Dr.Sc.
2	Savadogo, Germain	Burkina Faso	Health Economics	2010	2015	Dr.Sc.
1	Popilian, Ramona	Germany/Romania	Medicine	2008	2016	Dr.med.

Dr.Sc. is the abbreviation for Dr. scientiarum humanarum

\*with Paul Wilkinson, London Scholl of Hygiene and Tropical Medicine

\*\*with cand habil Dr. Svetla Loukanova

<sup>o</sup> together with Prof. Hengjin Dong, Zheijang Unviersity, China

<sup>oo</sup>submitted to Faculty in 10/2013, under review

## 2. SUPERVISED HABILITATIONS

(Postdoctoral degree, required to be appointed to a professoral position in Germany, Austria, Switzerland and other countries)

### 2.1. CURRENT HABILITATION SUPERVISIONS (2)

	Name, first name	Country of origin	Field of candidate	Degree	Year of award
4	Dambach, Peter	Germany	Public Health	Dr. habil. in Public Health	2018
3	Louise, Valérie	France	Public Health	Dr. habil. in Public Health	2018
2	Horstick, Olaf	Germany	Public Health	Dr. habil. in Public Health	2017
1	Aurélia Souarès	France	Public Health	Dr. habil. in Public Health*	2017

### 2.1. COMPLETED HABILITATIONS (10)

	Name, first name	Country of origin	Field of candidate	Degree	Year of award
10	Svetla Loukanova	Bulgaria	Public Health	Dr. habil. in Public Health	2016
9	Zanger, Philipp	Germany	Public Health	Dr. habil. in Public Health	2014
8	De Allegri, Manuela	Italy	Health economics	Dr. habil. in Public Health	2013
7	Wilder-Smith, Annelies	Netherlands	Public Health	Dr. habil. in Public Health*	2011
6	Meissner, Peter	Germany	Tropical Medicine	Dr. habil. in Trop. Medicine	2010
5	Junghanss, Thomas	Germany	Tropical Medicine	Dr. habil. in Trop. Medicine	2007
4	Marx, Michael	Germany	Public Health		2006

3	Müller, Olaf	Germany	Public Health	Dr. habil. in Public Health	2004
2	Razum, Oliver	Germany	Public Health		2003
1	Jahn, Albrecht	Germany	Public Health		2001

\*Umhabilitation von der "National University of Singapore"

## 2.2. HABILITATION CURRENTLY UNDER SUPERVISION

#	Name, first name	Country of origin	Field of candidate	Degree	Expected year of award
3	Horstick, Olaf	Germany	Tropical Infectious Diseases	Dr. habil. in Public Health	2017
2	Louis, Valérie	France	Climate change and health	Dr. habil. in Public Health	2017
1	Souares, Aurélia	France	Health care delivery in poor countries	Dr. habil. in Public Health	2017

## 2.3. HABILITATION PROCESS STOPPED BECAUSE OF APPOINTMENT TO UK PROFESSORIAL POSITION (NOTTINGHAM)

	Phalkey, Revati	India	Public Health	Candidate got a professor position in UK in 2015
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## **PUBLICATIONS**

### **Reviewer for several journals and organizations**

Proceedings of the National Academy of Sciences (PNAS), Lancet, Health Economics, Social Science and Medicine, Malaria Journal, American Journal of Public Health, International Journal for Quality of Care, Tropical Medicine and International Health, Health Policy and Planning, Bulletin of the World Health Organization, Scandinavian Journal of Public Health, BMC Health Research Policy and Systems, Global Health Action. Experimental and Clinical Endocrinology & Diabetes.

Reviewer for the Federal Ministry of Research and Education (BMBF), the German Science Foundation (DFG), the Humboldt Foundation, the Wellcome Trust (UK), L'Agence Nationale de la Recherche (Paris), and Institut Pasteur (Paris).

Lead Author, Inter-Governmental Panel on Climate Change (IPCC), Fifth Assessment Report, Working Group II, "Impacts, Adaptation and Vulnerability", Chapter 11, "Human Health". 2009-2014.

Reviewer for the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report, Working Group II: "Impacts, Adaptation and Vulnerability", Chapter 8, Health, 2006.

Reviewer for the Millennium Ecosystem Assessment under the auspices of WHO.

### **Editorial board work**

BMC Public Health, Associate editor  
Global health Action, Associate editor

### **Citation indexes (Google Scholar)**

	All	Since 2010
total citations	4874	2803
h-index	41	31
i10-index	93	77

## **1) Peer-reviewed journal articles**

### **2016**

169. Herlihy N, Bar-Hen A, Verner G, Fischer H, Sauerborn R, Depoux A, Flahault A, Schütte S (2016) Climate change and human health: what are the research trends? A scoping review protocol. BMC Public Health, accepted.
168. Dambach P, Schleicher M, Stahl H-G, Traoré I, Becker N, Kaiser A, Sié A, **Sauerborn R** (2016) Routine implementation costs of larviciding with *Bacillus thuringiensis* against malaria vectors in a district of rural Burkina Faso. Malaria Journal, 15:380, doi 10.1186/s12936-016-1438-8.
167. Verner G, Schütte S, Knop J, Sankoh O **Sauerborn R** (2016) Health in climate change research from 1990 to 2014: positive trends, but still underperforming. Global Health Action 9: 30723 - <http://dx.doi.org/10.3402/gha.v9.30723>.
166. Yasmin F, Banu B, Zakir SM, **Sauerborn R**, Ali L and Soares A (2016) Positive influence of short message service and voice call interventions on adherence and health outcomes



in case of chronic disease care: a systematic review. BMC Medical Informatics and Decision Making. 16:46 DOI 10.1186/s12911-016-0286-3

165. Bunker A, Wildenhain J, Vandenberg A, Henschke N, Rocklöv J, Hajat S, **Sauerborn R** (2016) The effects of air temperature on climate-sensitive mortality and morbidity outcomes in the elderly; a systematic review and meta-analysis of epidemiological evidence. Ebiomedicine, <http://dx.doi.org/10.1016/j.ebiom.2016.02.034>
164. Yé M, Diboulo E, Kagoné M, Sié A, **Sauerborn R**, Loukanova S (2016) Health worker preferences for performance-based payment schemes in rural health district in Burkina Faso. Glob Health Action 2016, 9: 29103 - <http://dx.doi.org/10.3402/gha.v9.29103>

## 2015

163. Phalkey R, Aranda-Jan C, Marx S, Höfle B, **Sauerborn R** (2015) A systematic review of current efforts to quantify the impacts of climate change on under nutrition. PNAS 112(33):E4522-9; doi: 10.1073/pnas.1409769112.
162. Ding Y, **Sauerborn R**, Xu B, Shaofa N, Yan W, Diwan V, Dong H (2015) A cost-effectiveness analysis of three components of a syndromic surveillance system for the early warning of epidemics in rural China. BMC Public Health (Accepted).
161. Mohammed S, Aji B, Bermejo JL, Souares A, Dong H, **Sauerborn R** (2015) User experience with a health insurance coverage and benefit-package access: implications for policy implementation towards expansion in Nigeria. Health Policy and Planning; doi: 10.1093/heapol/cvz068.
160. Lietz H, Lingani M, Sié A, **Sauerborn R**, Souares A\*, Tozan Y\*. Measuring population health: costs of alternative survey approaches in the Nouna Health and Demographic Surveillance System in rural Burkina Faso. Glob Health Action 8: 28330 - <http://dx.doi.org/10.3402/gha.v8.28330>.
159. Saronga HP, Dalaba MA, Dong H, Leshabari M, **Sauerborn R**, Sukums F, Blank A, Kaltschmidt J, Loukanova S (2015) Cost of installing and operating an electronic clinical decision support system for maternal health care: case of Tanzania rural primary health centres. BMC Health Serv Res 15:132; doi: 10.1186/s12913-015-0780-9.
158. Schoeps A, Lietz H, Sié A, Savadogo G, De Allegri M, Müller O, **Sauerborn R**, Becher H, Souares A (2015) Health insurance and child mortality in rural Burkina Faso. Glob Health Action 8:27327; doi: 10.3402/gha.v8.27327. eCollection 2015
157. Dalaba M, Akweongo P, Duysburgh E, Tonchev P, Savadogo G, Sarongo H, Williams J, **Sauerborn R**, Dong H, Loukanova S (2015) Cost effectiveness of clinical decision support system in improving maternal health care in Ghana. PLoS One 10(5): e0125920.
156. Dalaba MA, Akweongo P, Aborigo RA, Saronga HP, Williams J, Aninanya GA, Rainer **Sauerborn R** and Svetla Loukanova S (2015) Cost to households in treating maternal complications in northern Ghana: a cross sectional study. BMC Health Services Research 15:34; doi: 10.1186/s12913-014-0659-1.
155. Ding Y, Fei Y, Xu B, Yang J, Yan W, Diwan VK, **Sauerborn R**, Dong H (2015) Measuring costs of data collection at village clinics by village doctors for a syndromic surveillance system-a cross sectional survey from China. BMC Health Services Research 15:287; doi: 10.1186/s12913-015-0965-2.

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154. Stahl HC, Ahmadi F, Schleicher F, Schleicher U, **Sauerborn R**, Bermejo JL, Amirih ML,

- Sakhayee I, Bogdan C, Stahl KW (2014) A randomized controlled phase IIb wound healing trial of cutaneous leishmaniasis ulcers with 0.045% pharmaceutical chlorite (DAC N-055) with and without bipolar high frequency electro-cauterization versus intra-lesional antimony in Afghanistan. *BMC Infectious Diseases* 14:619.
153. Marx S, Phalkey R, Aranda C, Profe J, **Sauerborn R**, Höfle B (2014) Geographic information analysis and web-based geoportals to explore malnutrition in Sub-Saharan Africa: A systematic review of approaches. *BMC Public Health* 14:1189.
  152. Dambach P, Louis VR, Kaiser A, Ouédraogo S, Sié A, **Sauerborn R**, Becker N (2014) Efficacy of *Bacillus thuringiensis* var. *israelensis* against malaria mosquitoes in northwestern Burkina Faso. *Parasites & Vectors* 7:371.
  151. Dambach P, Traoré I, Becker N, Kaiser A, **Sauerborn R** (2014) EMIRA: Ecologic Malaria Reduction for Africa – Innovative tools for integrated malaria control. *Global Health Action* 7:25908-<http://dx.doi.org/10.3402/gha.v7.25908>.
  150. Aji B, Yamamoto S, **Sauerborn R** (2014) The economic impact of the insured patients with severe chronic and acute diseases: a qualitative approach. *Global Health Action* 7:22526.
  149. Haque MA, Louis VR, Phalkey R, **Sauerborn R**. (2014) Use of traditional medicines to cope with climate-sensitive diseases in a resource poor setting in Bangladesh. *BMC Public Health* 14:202.
  148. Mahendradhata Y, Soares A, Phalkey R, **Sauerborn R** (2014) Transitions of health care systems in low and middle-income countries toward patient-centeredness. *PLoS Medicine*. Sep 12;14(1):386; doi: 10.1186/1472-6963-14-386.
  147. Ahmadi F, Schleicher U, **Sauerborn R**, Bermejo JL, Amirih ML, Sakhayee I, Christian Bogdan C, Stahl KW (2014) A randomized phase IIb wound healing trial of cutaneous leishmaniasis ulcers with 0.045% pharmaceutical chlorite (DAC N-055) with and without bipolar high frequency electrocauterization versus intralesional antimony in Afghanistan. *BMC Infectious Diseases* (Section: Parasitological diseases). *BMC Infectious Diseases* 14:619.
  146. Yé M, Aninanya GA, Sié A, Kakoko D, Chatio S, Loukanova S, Williams J, **Sauerborn R** (2014) Establishing sustainable performance-based incentive schemes: views of rural health workers from qualitative research in three sub-Saharan countries. *Rural & Remote Health* 14: 2681. (online)
  145. Dalaba MA, Akweongo P, Williams J, Pius H; Saronga H, Tonchev P, **Sauerborn R**, Dong H, Loukanova S (2014) Costs associated with implementation of computer-assisted clinical decision support system for antenatal and delivery care: case study of Kassenanankana district of northern Ghana. *PLOS One* 9(9) e106416.
  144. Loukanova S, Prytherch H, Blank A, Duysburgh E, Tomson G, Gustafson LL, Sié A, Williams J, Leshabari M, Haefeli WE, **Sauerborn R**, Fonn S (2014) Nesting PhD Students in North-South Partnership Health Systems Implementation Projects. *Global Health Action* 7:24070, doi 10.302/g5a.v7.24070.
  143. Woodward A, Smith K, Campbell-Lendrum D, Chadee D, Honda Y, Liu Q, Olwoch J, Revich B, **Sauerborn R**, Chafe Z, Haines A (2014) Climate change and health – the latest report from the IPCC. *The Lancet* 283:1185-1189.
  142. Yamamoto S, Louis V, Sié A, **Sauerborn R** (2014) Biomass smoke in Burkina Faso: what is the relationship between particulate matter, carbon monoxide, and kitchen characteristics? *Environ Sci Pollut Res Int* 21(4):2581-91; doi: 10.1007/s11356-013-2062-6.

141. Mohammed S, Souares A, Bermejo JL, **Sauerborn R**, Dong H (2014) Performance evaluation of a health insurance in Nigeria using optimal resource use: health care providers perspectives. *BMC Health Serv Res*; doi: 10.1186/1472-6963-14-127.
140. Saronga HP, Duysburgh E, Massawe S, Dalaba MA, Savadogo G, Tonchev P, Dong H, **Sauerborn R**, Loukanova S (2014) Efficiency of antenatal care and childbirth services in selected primary health care facilities in rural Tanzania: a cross-sectional study. *BMC Public Health*; doi: 10.1186/1472-6963-14-96.
139. Robyn PJ, Bärnighausen T, Savadogo G, Souares A, **Sauerborn R** (2014) Provider payment methods and health worker motivation in community-based health insurance: a mixed-methods study. *Social Science Medicine*; doi: 10.1016/j.socscimed.2014.01.034.
138. Parmer D, de Allegri M, Savadogo G, **Sauerborn R** (2014) Do community-based health insurance schemes fulfil the promise of equity? A study from Burkina Faso. *Health Policy and Planning*; doi: 10.1093/heapol/czs136.

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137. Mohammed S, L Bermejo JL, Souares A, **Sauerborn R**, Dong H (2013) Assessing responsiveness of health care services within a health insurance scheme in Nigeria: Users' perspectives. *BMC Health Services Research*; doi: 10.1186/1472-6963-13-502.
136. Mohammed S, Souares A, Bermejo JL, Babale SM, **Sauerborn R**, Dong H (2013) Satisfaction with the level and type of resource use of a health insurance scheme in Nigeria: Health management organizations' perspectives. *Intl. Journal of Health Policy and Planning*; doi:10.1002/hpm.2219.
135. Cofie P, de Allegri M, Pokhrel, Kouyaté B, Adjei S, **Sauerborn R** (2013) Effects of information, education and communication campaign on a community-based health insurance scheme in Burkina Faso. *Glob Health Action* 2013, 6: 20791 - <http://dx.doi.org/10.3402/gha.v6i0.20791>.
134. Fink G, Robyn PJ, Sié A, **Sauerborn R** (2013) Does health insurance improve health? Evidence from a randomized community-based controlled insurance rollout in Burkina Faso. *J. Health Economics* 32(6):1043-56.
133. Ding Y, Smith HJ, Fei Y, Xu, B, Nie S, Yan W, Diwan VK, **Sauerborn R**, Dong H (2013) Factors influencing the provision of public health services by village doctors in Hubei and Jiangxe provinces, China. *Bull WHO* 91:64-69.
132. Dalaba MA, Akweongo P, Savadogo G, Saronga H, Williams J, **Sauerborn R**, Dong H, Loukanova S (2013) Cost of maternal health services in selected primary care centres in Ghana: a step down allocation approach. *BMC Health Services Research* 13:287.
131. Haque A, Aji B, Malik AA, Yamamoto SS, Louis VR, **Sauerborn R** (2013) Health coping strategies of people vulnerable to climate change in a resource-poor rural setting in Bangladesh. *BMC Public Health* 13:565.
130. Aji B, De Allegri M, Souares A, **Sauerborn R** (2013) The impact of health insurance programs on out-of-pocket expenditures in Indonesia: An increase or a decrease? *International Journal of Environmental Research and Public Health*. *Int. J Environ Res Public Health* 10:2995-3013; doi: 10.3390/ijerph10072995.
129. Robyn, PJ, Bärnighausen T, Souares A, Savadogo G, Bicaba B, Sié A, **Sauerborn R** (2013) Does enrolment status in community-based insurance lead to poorer quality of care? *Intl*

128. Prytherch H, Kagoné M, Aninanya GA, Williams J, Kakoko DCV, Leshabari MT, Yé M, Marx M and **Sauerborn R** (2013) Motivation and incentives of rural maternal and neonatal health care providers: a comparison of qualitative findings from Burkina Faso, Ghana and Tanzania. *BMC Health Services Research* 13:149.
127. Blank A, Prytherch H, Kaltschmidt J, Krings A, Sukums F, Mensah N, Zakane A, Loukanova S, Gustafsson L, **Sauerborn R**, Haefeli EW (2013) Quality of prenatal and maternal care: bridging the know-do gap" (QUALMAT study): an electronic clinical decision support system for rural Sub-Saharan Africa. *BMC Medical Informatics and Decision Making* 13:44.

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126. Åström C, Rocklöv J, Hales S, Béguin A, Louis V, **Sauerborn R** (2012) Potential distribution of dengue fever under scenarios of climate change and economic development. *Ecohealth* 9:448-454.
125. Rocklöv J, **Sauerborn R**, Sankoh O (2012) Weather conditions and population level mortality in resource poor settings – understanding the past before projecting the future – editorial. *Global Health Action* 5:20010-<http://dx.doi.org/10.3402/gha.v5i10.20010>.
124. **Sauerborn R**, Ebi K (2012) Climate change and natural disasters: integrating science and practice to protect health. *Global Health Action* 5:1-7; doi: 10.3402/gha.v5i0.19295.
123. Prytherch H, Leshabari MT, Wiskow C, Aninanya GA, Kakoko DCV, Kagoné M, Burghardt J, Kynast-Wolf G, Marx M, **Sauerborn R** (2012) The challenges of developing an instrument to assess changes in health provider motivation at primary care level in rural Burkina Faso, Ghana and Tanzania. *Global Health Action* 5:19120- <http://dx.doi.org/10.3402/gha.V5i0.19120>.
122. Diboulo E, Sié A, Rocklöv J, Niamba L, Yé M, Bagagnan C, **Sauerborn R** (2012) Weather and Mortality: Retrospective analysis of 10 years of data from Nouna Health and Demographic Surveillance System (HDSS), Burkina Faso. *Global Health Action* 5:19078-<http://dx.doi.org/10.3402/gha.v5D.19078>.
121. Parmer D, Souares D, de Allegri M, Savadogo G, **Sauerborn R** (2012) Adverse selection in a community-based health insurance scheme in rural Africa: Implications for introducing targeted subsidies. *BMC Health Services Research* 12:181; doi: 10.1186/1472-6963-12-181.
120. Blomstedt Y, Souares A, Niamba L, Sié A, Weinehall W, **Sauerborn R** (2012) Measuring self-reported health in low-income countries: piloting three instruments in semi-rural Burkina Faso. *Global Health Action* 5:8488, 1-10.
119. Robyn, PJ, Bärnighausen T, Souares A, Savadogo G, Bicaba B, Sié A, **Sauerborn R** (2012) Health worker preferences for community-based health insurance payment mechanisms: a discrete choice experiment. *BMC Health Services Research* 12,159:1-15.
118. Prytherch H, Kakoko D, Leshabari MT, **Sauerborn R**, Marx, M (2012) Maternal and newborn health care providers in rural Tanzania: in-depth interviews exploring influences on motivation, performance and job satisfaction. *Rural and Remote Health* 12:2072, available at [www.rrh.org.au](http://www.rrh.org.au).
117. Nilsson M, Evengård B, **Sauerborn R**, Byass P (2012) Connecting the global climate change and public health agendas. *PLoS Medicine* 9(6)e1001227.
116. Dambach P, Machault V, Lacaux JP, Vignolles C, Sié A, **Sauerborn R** (2012) Utilization of

combined remote sensing techniques to detect environmental variables influencing malaria vector densities in rural West Africa. *Intl J Health Geography* 11(1)8.

115. Robyn, PJ, Bärnighausen T, Sié A, **Sauerborn R** (2012) Provider payment in community-based health insurance schemes in developing countries: a systematic review. *Health Policy and Planning*; doi: 10.1093/heapol/czs034.
114. Robyn, PJ, Fink G, Sié A, **Sauerborn R** (2012) Health insurance and health-seeking behavior: evidence from a randomised community-based insurance rollout in rural Burkina Faso. *Social Science and Medicine*; doi: 10.1016/j.socscimed.2011.12.018.
113. Haque A, Yamamoto S, Malik AA, **Sauerborn R** (2012) Households' perception of climate change and human health risk: a community perspective. *Environ Health*. 11:1. doi: 10.1186/1476-069X-11-1
112. Parmer D, Reinhold S, Souares A, Savadogo G, **Sauerborn R** (2012) Does community-based health insurance protect household assets? Evidence from rural Africa. *Health Services Research*. *Health Serv Research* 47(2):819-39.
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110. Béguin A, Hales S, Rocklöv J, Åström C, Louis V, **Sauerborn R** (2011) The opposing effects of climate change and socio-economic development on the global distribution of malaria. *Global Environmental Change* 21:1209-1214.

## 2010

109. Yrjö-Koskinen J, Kagoné M, Souares A, **Sauerborn R** (2010) The Influence of Organizational Culture on Information Use in Decision Making within Government Health Services in Rural Burkina Faso. *Nordic J African Studies* 19(4):250-273.
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107. Sié A, Louis V, Gbangou A, Müller O, Niamba L, Stieglbauer G, Yé M, Kouyaté B, **Sauerborn R**/Becher H (equal contribution senior authors) (2010) The Health and Demographic Surveillance System (HDSS) in Nouna, Burkina Faso, 1993\_2007. *Global Health Action* 3: 5284.
106. Malik AA, Yamamoto SS, Souares A, Malik Z and **Sauerborn R** (2010) Motivational determinants among physicians in Lahore, Pakistan. *BMC Health Serv Res* 10:201.
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103. Souares A, Savadogo G, **Sauerborn R** (2010) "Using community wealth ranking to identify the poor for subsidies: case study of community-based health insurance in Nouna, Burkina Faso". *Health & Social Care in the Community* 18(4):363-8.

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101. Yamamoto S, Souares A, Sié A, **Sauerborn R** (2010) Does recent contact with a health care provider make a difference in malaria knowledge? *J Trop Pediatr* 56(6):414-20.

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**White Books and Policy Papers for the Federal German Government, as member of the „Scientific Council to the „Federal Government of Germany on Global Environmental Changes“ (Wissenschaftlicher Beirat für Global Umweltveränderungen) (WBGU)**

*Note* Rainer Sauerborn was one of 9 members/authors of the Scientific Council of the Federal German Government on Global Environmental Change/ Wissenschaftlicher Beirat der Bundesregierung für Globalen Umweltwandel ([www.WBGU.de](http://www.WBGU.de)) (2000-2004)

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25. **Sauerborn R** (2007) Umweltveränderungen und globale Gesundheitsrisiken. In: Debiel T, Messner D, Nuscheler F. Globale Trends 2007 – Frieden, Umwelt, Entwicklung. Fischer Taschenbuch Verlag, pg.345-358.
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#### 4) Book reviews

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## **PRESENTATIONS**

### **2015**

**Sauerborn R.** Why should health be a key argument in climate negotiations? Can a MOOC help to bring the message across? Side Event "Healthy Lives on a Healthy Planet convened by Lancet, Rockefeller Foundation, WHO. **COP21, Paris**, Dec 11, 2015.

**Sauerborn R.** Research agenda on Climate Change and Health (keynote), Research symposium of the Potsdam Institute for Climate Impact Research (PIK), Jan 27, 2016

**Sauerborn R.** Public health as a driver and actor of mitigating climate change. Conference "Climate change and health risks: what are the risks and how to reduce them? Société Française Santé et Environnement, Hôtel de Ville, November 24-25, 2015.

**Sauerborn R.** Les co-bénéfices de santé pour les ménages, qui réduisent leurs empreinte de carbone. Atelier "Extension du domaine de la santé: intégrer le changement climatique en ville" Paris, Région Île de France, Hemicyclel, Paris IDF, October 16, 2015.

**Sauerborn R.** The scientific nexus of climate & health: a theme for the Institut Pasteur? Annual Symposium, Paris, October 15-16, 2015.

**Sauerborn R,** Sherlaw K-W, Knop J, Dupont H, Sié A. MOOCs on climate change and health: Disseminating knowledge about cc& health, while bridging the digital divide. Parallel session "Innovations in Research and Teaching in Planetary Health", hosted by Leopoldina German Academy of Sciences, World Health Summit 2015, Foreign Office, Berlin, October 10-13, 2015.

**Sauerborn R.** Leveraging the health arguments for climate negotiations at COP21. Plenary session hosted by Leopoldina German Academy of Sciences. World Health Summit 2015, Foreign Office, Berlin, October 10-13, 2015.

**Sauerborn R.** Communication climate change and health to populations and policy-makers. Symposium of the Université Franco-Allemande , Université Paris Sorbonne-Cité, September 10, 2015.

**Sauerborn R.** Public health benefits of climate change policies. Annual conference of the Swiss Public Health Society, Institute of Global Health, University of Geneva, September 17-18, 2015.

**Sauerborn R.** Household Preferences for reducing greenhouse gas emissions in four European high income countries. Conference "Tackling global societal changes through innovative climate research. JPI (Joint Program of Implementation), Brussels. June 16-17, 2015

*Presentations at the UNESCO scientific conference "Our common future under climate change" as preparation for COP21*

**Sauerborn R.** The role of climate change in global health. Workshop "Global Health Education", Institut Pasteur, Paris, June 25, 2015.

Sorgho R, Sié A, Simboro S, Franke J, **Sauerborn R.** Nutrition and climate change - effect of climate change on childhood stunting in Burkina Faso: NutriCLim: Proof of concept pilot study. Conference on French-German cooperation in the field of climate change, food security and water resources. French Embassy in Berlin, July 1-2, 2015.

**Sauerborn R.** Intelligent energy systems – a health challenge for India. Workshop of the Indian Institute for Tropical Meteorology, Pune, India, January 25, 2015.

*Presentations at the UNESCO scientific conference "Our common future under climate change" as preparation for COP21*

Kawan R, Sié A, Yamamoto S, **Sauerborn R**. Health co-benefits and co-harms of reducing indoor air-pollution in Sub Saharan Africa. UNESCO International Scientific Conference "Our common future under climate change", Paris, France, July 7-9, 2015.

Traore I, Sié A, Machault V, Vignolles C, **Sauerborn R**, Dambach P, Becker N. Adaptation to potential shifts in malaria breeding sites: biolarvicide application in Sub-Saharan Africa, guided by risk maps based on remote sensing. UNESCO International Scientific Conference on "Our common future under climate change", Paris, France, July 7-9, 2015.

Vignolles C, Viel C, Machault V, **Sauerborn R**, Dambach P, Sié A, Roger C, Tourre YM. The PALUCLIM project. Impacts of climatic factors on the production of malaria vectors in the rural Sahel: application to the Nouna region (Burkina Faso). UNESCO International Scientific Conference on "Our common future under climate change", Paris, France, July 7-9, 2015.

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Bunker A, Diboulo E, Marquins S, Egodi T, Sié A, Rocklov J, **Sauerborn R**. Temperature impact on Non-Communicable Diseases in Africa – a Blind Spot in Research. UNESCO International Scientific Conference on "Our common future under climate change", Paris, France, July 7-9, 2015.

Diboulo E, Sié A, Traoré I, Dambach P, Louis V, **Sauerborn R**. Time course of weather variables in malaria-related mortality in a Sub-Saharan African population. UNESCO International Scientific Conference on "Our common future under climate change", Paris, France, July 7-9, 2015.

**Sauerborn R**, Flahault A, Ganten D. How can knowledge about health consequences promote acceptance of climate action? UNESCO International Scientific Conference on "Our common future under climate change", Paris, France, July 7-9, 2015.

## 2014

**Sauerborn R**. Doing something for the climate may be beneficial for your health: the NCD-related co-benefits of climate policy. German-Indonesian symposium on non communicable diseases in global health. Heidelberg Institute of Public Health, Germany, November 30- December 1, 2014.

**Sauerborn R**. Indoor air pollution leads to 8 million deaths globally and contributes to climate change: the case for co-benefits. German-Indonesian symposium on non communicable diseases in global health. Heidelberg Institute of Public Health, Germany, November 30- December 1, 2014.

Vandenbergh, Alina, **Sauerborn R**. Heat stress and the elderly: what do German General Practitioners know, what should they? Intl Conference on climate change and health, Heidelberg University, December 4, 2014.

Sorgho R, Franke J, **Sauerborn R**. Malnutrition, food yields and weather variability in subsistence farming households – a pilot study from Burkina Faso. Intl. Conference on climate change and health, Heidelberg University, December 4, 2014.

Neuendorf F, **Sauerborn R**. Greenhouse gas footprint of teaching hospitals in the border region of France and Germany – a research concept. Intl. Conference on climate change and health, Heidelberg University, December 4, 2014.

Chebbi-Bunker A, Diboulo E, **Sauerborn R**. Quantifying health effects of climate change in

demographic surveillance systems. Intl. Conference on climate change and health, Heidelberg University, December 4, 2014.

## 2013-2011

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(to be added)

## 2010

112. **Sauerborn R.** Cancer: a global public health challenge: the case of HPV and cervical cancer. Hellen-Diller-Family Comprehensive Cancer Center, University of California at San Francisco (UCSF), May 28, 2010.
111. **Sauerborn R.** New approaches to PhD training in Germany and Sweden. Public Health Seminar, Center for Global Health and Development, Boston University, June 1<sup>st</sup>, 2010.
110. **Sauerborn R.** Triangular research cooperation with Sub-Saharan Africa. Conference "Germany and France towards a joint approach for the science and technology cooperation with developing countries": The example of Sub-Sahara Africa. Ministry of Science and Education (BMBF), Potsdam June 17-18, 2010.
109. **Sauerborn R.** Malaria in Europe: Hot Topic or hot air? 14<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Vienna, Austria, April 14-14, 2010.

## 2009

108. **Sauerborn R.** Getting research into policy and practice. "Health Systems Research (HSR) Lessons for the Future". Symposium in conjunction with the 25<sup>th</sup> anniversary of the Division of Global Health (ICHAR), Karolinska Institutet, Sept 25, 2009.
107. **Sauerborn R.** Climate Change and Human Health: Some Food for Thought and Action. James Grant School of Public Health, BRAC University, Savar, Bangladesh, February 23, 2009.
106. **Sauerborn R.** Integrating environmental and health information systems. GEOS workshop XXVII Health and the Environment, World Meteorological Organization (WMO) Geneva, July 7, 2009.
105. **Sauerborn R.** New infectious diseases in Europe: the possible impact of global warming. 14<sup>th</sup> Congress of the European Association of Hospital Pharmacists, Barcelona, March 25-27, 2009.
104. **Sauerborn R.** The double burden of disease: challenges for health systems. Jahrestagung der Dt. Gesellschaft für Tropenmedizin und Internationale Gesundheit. München 2009.

## 2008

103. **Sauerborn R.** All hands on deck: a research agenda for health risks of climate change and system responses. Umea University, Sweden, November 24, 2008.
102. **Sauerborn R.** Climate change destabilizes infectious diseases: challenges for research, capacity building and policy. Global Ministerial Forum on Research for Health, Bamako, November 16-19, 2008.
101. **Sauerborn R,** Vignolle C, Lacaux JP. Remote sensing for predicting malaria risk maps. INDEPTH Annual Conference, Dar Es Salaam, Sept 22-26, 2008.
100. **Sauerborn R.** Les effets sanitaires du changement climatique. Colloque de l'École Pasteur/CNAM de Santé. Paris, February 14-15, 2008.

99. **Sauerborn R.** Micro health insurance and micro credit: any synergies? DFG-Conference „Health Transition in India: Public Health, Governance and the Market“ in collaboration with the South Asia Institute, Heidelberg and the Institute for Developmental Studies, Kolkata, India. February 19-21, 2008.
94. **Sauerborn R.** Gefahr der Zunahme tropischer Infektionskrankheiten. Warnsignal Klima, Öffentliches Symposium, Max Planck Institut f. Meteorologie und Univ Hamburg, 26.-28.6. 2008.
98. Souares A, Sawadogo G, Gnawali D, **Sauerborn R.** Targeting the poor: utilization of community wealth ranking to subsidize health insurance enrolment. 7th Intl. Conference on Health Economics, Management and Policy, Athens, Greece, July 10-13, 2008.
97. Gnawali DP, De Allegri M, Pohkrel S, Sié A, , Souares A, Dong H, **Sauerborn R.** The impact of community-based health insurance on equity in utilization of modern health care in rural Burkina Faso. 7th Intl Conference on Health Economics, Management and Policy, 10-13 July 2008, Athens, Greece.
96. Souares A, Sawadogo G, Gnawali D, **Sauerborn R.** Does Community-based insurance improve access to drugs and health care in Africa? International Society for Pharmacoeconomics and Outcomes Research. 13<sup>th</sup> Annual Meeting, May 3-7, 2008, Toronto. (accepted)
95. Gnawali DP, De Allegri M, Pohkrel S, Sié A, Souares A, Dong H, **Sauerborn R.** Inequity in enrolment in community-based health insurance in rural Burkina Faso. 7th European Conference on Health Economics Rome, University of Rome, Italy, July 23-26, 2008.

## 2007

94. **Sauerborn R.** The optimal financing and organization of health care in low and middle income countries. ESF-IfW Conference on the Global Health Economy, “The Global organization of biomedical innovation: funding, intellectual property rights, incentives and the diffusion of new technology”. Kiel, Institute für Weltwirtschaft, Oct. 4-8, 2007.
93. **Sauerborn R,** Gbangou A, Wladarsch E, Sanon M, Dong H, van der Pol M. Time preference from an economist's and an anthropologist's perspective. 6th World Congress of the International Health Economics Association (IHEA), Copenhagen, July 8-11, 2007.
92. Gnawali DP, Pokhrel S, Sanon M, De Allegri M, **Sauerborn R.** Applying Propensity Score Matching to assess the impact of community-based health insurance on the demand for health care in rural Burkina Faso. 6th World Congress of the International Health Economics Association (IHEA), Copenhagen, July 8-11, 2007.
91. Dong H, Gnawali DP, De Allegri M, **Sauerborn R.** Drop-out analysis of community-based health insurance membership at Nouna, Burkina Faso. 6th World Congress of the International Health Economics Association (IHEA), Copenhagen, July 8-11, 2007.
90. Akunne A, **Sauerborn R.** Identification of critical attributes of function of health in a rural West African population. 6th World Congress of the International Health Economics Association (IHEA), Copenhagen, July 8-11, 2007.
89. Yamamoto S, Sié A, **Sauerborn R.** Household Characteristics and severe malaria in Nouna, Burkina Faso. 5th European Conference on Tropical Medicine and International Health, Amsterdam, May 24-28, 2007.
88. **Sauerborn R.** Global environmental change and infectious diseases – impact and adaptation. International Conference (IHDP) “Towards sustainable Global Health”, Bonn, May 9-11, 2007.
87. **Sauerborn R.** Ecology of infectious diseases in the anthropocene. Jahrestagung der Gesellschaft für Tropenökologie, Bonn, February 21-25, 2007.
86. **Sauerborn R,** De Savigny D. What are the global challenges for population health? Does research address them? 100. Jahrestagung der Deutschen Tropenmedizinischen Gesellschaft (DTG), Berlin, September 21-23, 2007.

## 2006

85. Yé Y, Sankoh O, **Sauerborn R**. Effect of Local Weather Conditions on Plasmodium Falciparum Infection Among Children In Savannah Regions. The 17th Global International Conference and Expo, Miami USA , April 19-21, 2006.
84. Yé Y, Louis V, Simboro S, **Sauerborn R**. Local Weather Conditions and Plasmodium falciparum Infection among Children in Savannah Regions. Development and Adaptation Days at COP-11, Montreal, Canada, December 3-4, 2005.
83. Yé Y, Hoshen M, **Sauerborn R**. Malaria risk prediction in holoendemic area: the potential of small-scale mathematical modelling. Fourth MIM Pan-African Malaria Conference, Yaoundé, Cameroon, November 13-18, 2005.
82. Yé Y, Louis V, Simboro S, **Sauerborn R**. Are weather parameters good predictors for Plasmodium falciparum infection among under five children at a local scale in tropical dry savannah region?' COHAB 2005, the First International Conference on Health and Biodiversity, Galway, Ireland, August 23 - 25, 2005.
81. Yé Y, Wahl T, Reitmaier P, Siegmund A, **Sauerborn R**. Incorporating environmental factors in modelling malaria transmission in under five in rural Burkina Faso. Fourth INDEPTH-Network fourth Annual General and Scientific Meeting, Hanoi, Vietnam, May 3-7, 2004.
80. **Sauerborn R**. Reaching the poor: Does community-based health insurance help? Global Forum for Health Research, Cairo, October 29 - November 2, 2006.
79. Sauerborn R. Health Insurance for the Poor: a Dream or a Possibility? The American University, Cairo. November 1<sup>st</sup>, 2006.
78. **Sauerborn R**. Climate change impact on infectious diseases - impacts and adaptation. Keynote lecture, Conference EcoHealth ONE, Madison, October 7-9, 2006.
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75. **Sauerborn R**. Modeling the effect of temperature and precipitation on the micro-epidemiology of malaria in West Africa. Göttingen University Remote Sensing Conference, October 4-6, 2006.

## 2005

74. **Sauerborn R**, Kouyaté, B, Somé F, Bridges J. Cluster-randomized trial of community-based insurance. Conférence internationale sur le financement de la santé dans les pays en développement. Clermont-Ferrand, December 1-3, 2005.
73. **Sauerborn R**, Somé F, Pfeiffer K. Poor quality of care: a constraint to the implementation of community-based insurance. Conférence internationale sur le financement de la santé dans les pays en développement. Clermont-Ferrand, December 1-3, 2005.
72. De Allegri M, Sanon M, Tiawara G, **Sauerborn R**. Understanding decision to enroll in community-based insurance in sub-Saharan Africa: the case of the Nouna health district, Burkina Faso. Conférence internationale sur le financement de la santé dans les pays en développement. Clermont-Ferrand, December 1-3, 2005.
71. De Allegri M, Pohkrel S, **Sauerborn R**, Bridges J. Using multilevel modeling to explore demand for voluntary health insurance in low income countries. 5th World Congress of the International Health Economics Association (iHEA), Barcelona, 2005.
70. Pohkrel S, De Allegri M, Bridges JF, **Sauerborn R**. Does demand side subsidy improve health care utilization: a case study from Nouna, Burkina Faso. 5th World Congress of the

International Health Economics Association (iHEA), Barcelona, 2005.

69. Pohkrel S, **Sauerborn R**. At what price would I say I'am sick: measuring health care costs' effect on illness perception. 5th World Congress of the International Health Economics Association (iHEA), Barcelona, 2005.

## 2004

68. Akunne AF, Bridges JFP, **Sauerborn R**. Visual Analogue Scales: Are The Elicited Preferences Analogue? ISPOR 7th Annual European Congress, Hamburg, Germany, 24-26 October, 2004.
67. De Allegri M, Sanon M, Bridges J, **Sauerborn R**. Preferences Matter: understanding demand For voluntary Health Insurance, ISPOR 7th Annual European Congress, Hamburg, Germany, October 24-26, 2004.

## 2003

66. **Sauerborn R**, Yé Y. Adding geo-science to demographic surveillance: a happy marriage? Workshop on „Environmental change and malaria risk: global and local implications“, Wageningen, NL, November 11-13, 2003.
65. Hidayat B, Thabrany H, Cashin C, **Sauerborn R**. Does health insurance coverage contribute on the demand for primary health care in Indonesia?: A policy implications for increasing access and expanding health insurance. 4th World Congress of the International Health Economics Association (iHEA), San Francisco, June 2003.
64. **Sauerborn R**, Mugisha F, Kouyaté B, Somé F, Dong H, Becher H, Gbangou A. Population- based data for estimating demand for health care under community-based insurance in Burkina Faso, 4th World Congress of the International Health Economics Association (iHEA), San Francisco, June 2003.
63. Pokhrel S, Cashin C and **Sauerborn R**. Modelling an episode of household decisions on Child Health Care. Poster presentation. 4th World Congress of the International Health Economics Association (iHEA), San Francisco, June 2003.

## 2002

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