

Curriculum Vitae, Rainer Sauerborn

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EDUCATION

- 4-12/2015 UNIVERSITÉ SORBONNE PARIS-CITÉ
"Centre de Santé Publique Virchow-Villermé - "MOOC Factory"
MOOC didactics
Production of MOOC "Climate change and health climate policy" for COP21
- 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 & International Health. Concentration in Health Economics
Thesis: 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
Pediatric Specialty Training Certificate/ Facharzt für Pädiatrie (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 HEIDELBERG UNIVERSITY TROPICAL HYGIENE & PUBLIC HEALTH
Diploma: "Medicine in Developing Countries" (9/79)
- 01/1978 STATE LICENCING BOARD (ÄRZTEKAMMER) BADEN-WÜRTTEMBERG
License to practice as a physician (Approbation)

- 1975 GERMAN CANCER RESEARCH INSTITUTE (DKFZ), HEIDELBERG, GERMANY – one-year exclusive PhD work
Ph.D./Dr.med. 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
- 1973-76 HEIDELBERG UNIVERSITY MEDICAL SCHOOL
MD board exam/Staatsexamen
- 1970-72 BONN UNIVERSITY MEDICAL SCHOOL
Preclinical exam (Physikum)

PROFESSIONAL EXPERIENCE

- 12/2023- today CHEERS* CONSULTING COMPANY Ltd/GmbH, HRB #749512
 *Climate Change & Health, Evaluation Early Warning & Response System
 Shareholder with five colleagues (equal shares): Prof. Till Bärnighausen (HD), Dr. Sandra Barteit (HD), Prof. Osman Sankoh (Sierra Leone), Dr. Ali Sié (Burkina Faso) and Prof. Tin Tin Su (Malaysia)
- 10/2016- today HEIDELBERG UNIVERSITY, Germany
as "Senior Professor of Climate Change and Health"
 These are post-retirement age professorships, which are awarded by the Rector of the University to give the awardee the freedom to focus on his/her own research and teaching agenda without administrative or teaching duties.
- 03/1996- 10/2016 INSTITUTE OF PUBLIC HEALTH, HEIDELBERG UNIVERSITY
 In 2017 renamed HIGH = Heidelberg Institute of Global Health
Chair and Director (since 3/96 and (4/1997 respectively)
 Since 10/2016 Inst. led by Humboldt Professor Till Bärnighausen
- 4/2017- 12/2018 HARVARD CHAN SCHOOL OF PUBLIC HEALTH, BOSTON, US
Visiting Professor of Climate Change and Health
 Joint project development in "Climate Change and Child Undernutrition",
 Joint Development of Harvard X MOOC: "Climate Change and Health"
 Taught EH550 course for master/doctoral students and postdocs on
 "Research Methods in Climate Change and Health"

- 4/2015-12/2015 UNIVERSITÉ SORBONNE PARIS-CITÉ, formerly « Paris Descartes », Centre Virchow-Villermé de Santé Publique
Visiting Chair of Public Health
 Development of 3 MOOCs (Massive Online Open Courses) in Climate Change & Health for different audiences. Creation of research group: The role of health in climate policy and legislation. Taught lectures in "Changement climatique et santé" in postgraduate courses.
- 2009-2014 UMEA UNIVERSITY, SWEDEN
 Centre for Global Health Research
Guest Professor for "Global Health and Climate Change"
 Founded and led the research group "Climate change and health", taught postgraduate course on "Research Methods for Climate Change & Health Studies"
- 06/2010-2014 **INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC)**
 Lead Author, Chapter 11 "Human Health", Working Group II, for the 5th Assessment Report"
- 2000-2004 **SCIENTIFIC ADVISORY BOARD FOR GLOBAL ENVIRONMENTAL CHANGES (WBGU) OF THE FEDERAL GOVERNMENT OF GERMANY**
 Appointed by the Federal Ministers of Science and of the Environment
- 07/1999-6/2011 **SPECIAL RESEARCH CENTER (SONDERFORSCHUNGSBEREICH) SFB 544: "CONTROL OF TROPICAL INFECTIOUS DISEASES", DEUTSCHE FORSCHUNGSGEMEINSCHAFT¹**
 Initiated the consortium of 18 single projects, coordinator (Sprecher) from 7/99 through 6/02, deputy speaker since 7/02 with Hans Georg Kräusslich taking over the coordinator role. Project on "Community-based health insurance in Nouna, rural Burkina Faso".
- 1997-1999 **RESEARCH FOCUS (FORSCHUNGSSCHWERPUNKT) "TROPICAL MEDICINE HEIDELBERG"**
 Coordinator (Sprecher) since 4/1997, reporting to an International Scientific Advisory Board
 Consortium of 7 single projects at Heidelberg University, funded by the Ministry of Science and Technology (1994-99).
- 07/1991-02/1996 **HARVARD INSTITUTE OF INTERNATIONAL DEVELOPMENT (HIID)**
 Institute Associate (tenure track), from 1993-1996, Coordinator of the HIID Health Office (together with anthropologist Jim Trostle)
- 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 **MINISTRY OF HEALTH, BURKINA FASO and the MEDICAL FACULTY, HEIDELBERG UNIVERSITY**
 Coordinator for capacity building, research and teaching cooperation

¹ 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 Universities.
- 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**
 Head District Medical Officer (Médecin-Chef) of the Nouna district in Burkina Faso, West Africa. Responsible for the management as well as the internal medicine, pediatric, surgical and obstetric care of both 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, training and supervision of community health workers, mass immunizations, Expanded Program of Immunization (EPI), school health, control of diarrheal diseases, malaria as well of endemic infectious diseases (guinea worm, schistosomiasis, leprosy and trachoma). Care and rehabilitation of malnourished children at the District Nutrition Rehabilitation and Education Center.
- 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. Massive open online courses (MOOCs) on climate change and health (7)

- 2023-4 **MOOC: Climate change in small island states**
With colleagues from Maldives National University (MNU), Université Paris-Cité and Liège University, Belgium
- 2020-21
launch:
6/2021 **MOOC: "Climate change and health for doctors"**
on OpenEdX platform, hosted at Heidelberg University
(8 sessions, 4 lecturers) in collaboration with the Centre de Santé Publique Virchow-Villermé, Université Paris-Cité (formerly Université Descartes)
- 2020-21**
launch:
11/2021 **MOOC: "Research methods to study climate impact on health using datasets from Sub Saharan Africa and Asia"**
on OpenEdX platform, hosted at Heidelberg University
(29 sessions, 16 lecturers, 5 from SubSaharan Africa)
- 4/2019** **MOOC: Climate Change and Health, responsible for Module 5 "Research on climate change and health: data sets and methods"**
on HarvardX platform, with Harvard Medical School, Harvard School of Public Health and Harvard Global Health Institute
- Launch
2/2017** **MOOC: "Changement Climatique et Santé dans le Context de l'Afrique"**
Platform FUN (France Université Numérique)
Offered by Nouna Health Research Center, Ouaga University and the Burkinian Meteorological Office, with technical and didactic support of Heidelberg Institute for Public Health and the Centre de Santé Publique Virchow-Villermé, Université Paris-Cité
- Launch
02/2016** **MOOC: "Climate change and Health: impacts, adaptation and co-benefits"**
5 wks for all audiences – platform "iversity, Berlin"
with technical and didactic support of the Centre de Santé Publique Virchow-Villermé, Université Paris-Cité
- Launch
10/2015** **MOOC: "Why health is key for climate policy makers"**
2-day executive course for policy-makers – platform "iversity, Berlin"
particularly addressing delegations of the Paris Climate Conference COP21, 12/2015. With technical and didactic support of the

2. In-person courses at postgraduate level (master, doctoral)

- 3-5/2018** **EH550 Research Methods to Study the Impact of Climate Change on Health**
Harvard Chan School of Public Health, Boston, USA. Dept. of Environmental Health.
Course for master, doctoral level students and post docs- 2.5 credits.

- 2012-18 Mastère spécialisé de santé publique (Master in Public Health) Pasteur Institute / CNAM, Paris**
1-day module on climate change and global health
- Since 2015 Maitrise en Santé Publique (MPH), Ouagadougou University School of Public Health, Burkina Faso**
Co-developed the master course with the Burkinian counterpart, Prof. Nicolas Méda with a grant of the German Academic Exchange Service (DAAD)
First intake 10/2015, ongoing (2nd intake in 10/2016)
- Since 2010 "Research methods for the study of climate change and health" (three weeks, 5 ECTS credits), Umeå University, Sweden.**
Course director,
accredited (5 ECTS) 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, 3ECTS credits) Heidelberg University**
Course director,
accredited (3 ECTS) with TropEd and ACQUIN, stand-alone 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 (3 ECTS) with TropEd and ACQUIN, stand-alone 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.
- 2005-2017 M.Sc. of International Public Health, HEIDELBERG UNIVERSITY Course director**
Led development of modular curriculum structure and integration with European Master program "TropEd". Taught multiple courses/lectures. Supervised 40+ M.Sc. students.

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 2 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 marginal costs of the course are covered by tuition (16k€/y)

**2002-
2004**

**M.Sc. of Health Economics – course director
HEIDELBERG UNIVERSITY and HANOI NATIONAL ECONOMICS
UNIVERSITY**

Developed and taught 20% of new course

Leading to a Heidelberg University M.Sc. degree

This was a full time one-year course on health economics, taught by Heidelberg University faculty, funded by The World Bank. Continuation as Master course of Hanoi University was planned.

**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 effect of introducing user fees on health care utilization in low income countries", in "Health Care Financing"

(Course Director Bill Hsiao)

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

(vi) "Sampling and implementation of a household panel survey in Burkina Faso" in "Field population research methods" (Course directors: Gretchen Berggren, John Wyon, Nevin Scrimshaw)

1994-96

HARVARD INSTITUTE FOR INT'L 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 students.

**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

Courses in anatomy, physiology and clinical medicine

3. Graduate teaching for medical students

**1996-
2017**

HEIDELBERG MEDICAL SCHOOL
Graduate teaching (medical students), under the HeiCuMed program

- Developed and convened a three-week full-time module on Public Health for medical students (module leader): Health economics, prevention, health services delivery, health systems, global health
- 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.

4. Undergraduate teaching

9/2019

Future Academy of the Studienstiftung des Deutschen Volkes and St John's College, Cambridge. Cambridge, UK

Working Group: Health – the human face of climate change

- 2015** **Studium Generale, Heidelberg University**
-Lecture "Aging in low and middle-income countries"
- 2011** -Lecture "Climate change and health"

RESEARCH and TEACHING GRANTS

1) Acquired grants

Summary:

After appointment as Chair in Heidelberg (1998-2019) 52.1 million € = 2.6 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
2020-2022	10,000 (10 m €)	DFG/German Science Foundation	FOR2036	Climate Change and Health in Sub-Saharan Africa (Collaborative Grant comprising 9 PIs, from 5 German, 1 Swiss and 2 African research institutions) – RS Lead PI/coordinator. Project funded as of 7/2019 for 3 y (5m), thereafter prolongable for another 3 years)
2021-2024	346	German Fed Ministry of Environment	KLIOL	Reducing hospital greenhouse gas emissions through optimization of supply chains.
2017/8	60	ESA Contract No. 4000122223/17/NL/NR	MyFoodS	Monitoring Micro Yields for assessing Food Security and Malnutrition through remote sensing
2017-9	65	Humboldt Professorship Bärnighausen und eigene Bonusmittel	NUTRI-CLIM	Linking rainfall variability, households' food crop harvests, socio-economic factors and childhood malnutrition and survival in Nouna, Burkina Faso
2015-2020	307	BMBF/DZIF	HepEpiAfr	Epidemiology of chronic viral Hepatitis in Nouna, Burkina Faso, Co-PI
2015-2018	250	BMBF/DZIF	TI-APS	Infrastructural measure: Strengthening research capacity of African DZIF partners (PI Jürgen May)- Co-PI
2014-2018	1,300	EU-JPI	HOPE	Household Preferences for reducing greenhouse gas Emission on four European High-Income Countries, Lead PI/Coordinator
2013-2016	480	Lautenschläger Foundation	EMIRA	Ecological Malaria Management in Burkina Faso, PI
2013-2015	487	World Bank	PBF-base	Scientific evaluation of a nationwide policy introducing performance-based incentives into mother and child care-PI
2013-2015	52	World Bank	PBF-pilot	Scientific evaluation of a nationwide policy introducing performance-based incentives into mother and child care -PI
2012-2015	220	DAAD	PAGEL 56267632	Master and Doctoral program in Public Health with and at Ouagadougou University, Burkina Faso - PI
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 – Co-PI
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) Co-PI (ii) Sub-project 8.4. Malaria co-infections (PI Jürgen May) – Co-PI
2009-2014	3,000	EU-FP7	QUALMAT	Improving the quality of maternity care through performance-based incentives and clinical decision support systems (partners: Karolinska Institute, Sweden; Gent University, Belgium; Nouna Health Research Center, Burkina Faso; Navrongo Health Research Center, Ghana; Muhimbili University, Tanzania). Lead PI

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)) Co-PI
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, PI
2011	2,5	UNESCO	CLIMIMO	Climate change, migration and mortality in 13 research sites of the INDEPTH network in Africa and Asia, PI
1999- 2011	Ca 1,500 /y for 12 years	DFG	SFB 544	Control of tropical infectious diseases (Lead PI 1999-2011, deputy PI from 2003 to 2011) 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 (Co- PI with C. Schmidt (PI) and R. Baltussen) 1999-2002 ➤ Project Z1: Speaker of the SFB 1999-2002
2010	85	WHO	CRA_ Mal/Den	Climate attributable changes of the burden of disease from Malaria and Dengue – Global Burden of Disease Program (from Umeå professorship) - PI
2005	300* /2y	BMBF ²	Sustaina ble megaciti es 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. Investigator
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. Co-PI
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) - PI
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. Co-PI
2002- 2011	1,300 ³	DFG	GK793	Research Training Group GK 793 "Epidemiology of communicable and non-communicable diseases and their interaction" (PI/Coordinator: Heiko Becher, Dept. of Tropical Hygiene and Public Health). This was a post graduate research program, which funded 15 doctoral fellows, of whom 2 were supervised by RS.
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. PI/Coordinator.

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)

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. PI-Coordinator.
2000	250/2y	World Bank	M. Sc. in Health Economics(Hanoi)	A Heidelberg teaching export: M.Sc. Health Economics: Curriculum development and first round of teaching in Hanoi, Vietnam. PI.
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)") Supervisor of Assistant.
1999	750	Land of Baden-Württem.	CRSN1 Cooperation with CRSN ⁴ ,	Infrastructure and running costs for a multi-disciplinary Nouna Health Research Center as Partner of the SFB - PI.
1998	440	EU, FP5		Strategies to improve the use of research for health sector reform (concerted action with 11 partners) - PI
1995	3,300	World Bank		Technical Assistance to the Palestinian Health Authority, at Harvard Institute for International Development (HIID) PI
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. PI/Coordinator
1995	64	World Bank	48-092-0001-1-30	6-week course "Econometric modeling of health care demand" - instructor: Paul Gertler (out of HIID) Instructor
1985	427	EU	TSD-053-D(B)	Solenzo Gesundheitssystemforschung, Burkina Faso PI (with Hans Jochen Diesfeld)
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) PI (with Hans Jochen Diesfeld)
1994	54	UNICEF	94-043	"Child Survival Bridge Project", Cameroon (out of HIID), PI
1993	1,912	USAID	631-0056-C-00-7096-00, a	"Maternal and Child Health Project", Cameroon, project extension (1 year) (out of HIID)
1993	507	EU	TS3 CT 92-0078	Idem, project extension (2 years) - PI
1989	585	EU	TS2-0306 D(MB)	Burkina intervention study to assess health impact of health policy changes, Burkina Faso, PI
1985	640	EU	TSD-053-D(B)	Solenzo Health System Research Project, Burkina Faso - Co-PI (with Hans Jochen Diesfeld)

For an explanation of acronyms see next page

Acronyms:

- BMBF:** Federal Ministry of Research and Education, Germany
CRSN: Centre de Recherche en Santé de Nouna, Burkina Faso
ERA: European Research Area -overarching EU program to promote research EU wide collaborative res.
ESA: European Space Agency
DFG: German Research Foundation, German public funding source for university-based research
DZIF: German Center for Infectious Diseases Research
ERA4CS: European Research Area Program for the Development of Climate Services
FP5: 5th Framework program of the EU (2007-2013)
Horizon2020: Biggest EU research funding program (€80 billion 2014-2020), part of ERA
JPI: EU Joint programming initiative, part of ERA to support research on priority areas, e.g. JPI on Agriculture Food Security and Climate Change.
PAGEL: Partnerschaften für den Gesundheitssektor in Entwicklungsländern, Partnerships in the Health Sector with developing countries
SFB: Collaborative Research Grant, up to 12 y duration, evaluated every 3 years, on average 15 PIs
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2) HOSTING OF GRANTEES of HUMBOLDT FOUNDATION & GERMAN SCIENCE FOUNDATION (DFG*)

Name	Title	Award period	Granting Institution	Amount (€)	Alma mater of grantee
Joacim Rocklöv**	Humboldt Professor "Arteficial intelligence for studies on global infectious diseases and climate change Studies"	2021-2026	Alexander v. Humboldt Foundation	5.000.000	Umeå University, Sweden
Bärnighausen, Till	Humboldt Professor of <i>Global Health</i>	2015-2020	Alexander v. Humboldt Foundation	5.000.000	Harvard University
Mahandradhata, Yodi	Humboldt visiting scholar, <i>Health Systems</i>	2014	Alexander v. Humboldt Foundation	110.000	Gadha Mada University, Indonesia
Mandayanaka, Maduni	German Chancellor's Leadership Scholarship. Topic: <i>Dengue Control</i>	2012	Alexander v. Humboldt Foundation	80.000	Colombo University Sri Lanka
Wilder-Smith, Annelies	Mercator Guest Professor <i>Public Health</i>	2011-2012	*Deutsche Forschungsgemeinschaft	120.000	Singapore National University
Martens, Pim	Humboldt Bessel Prize, <i>Climate Change and Health</i>	2003	Alexander v. Humboldt Foundation	60.000	Maastricht University, NL

*DFG= German Science Foundation, comparable to US National Science Foundation

** my contribution= idea and concept generation, winning the candidate to propose, joining in proposal writing under the lead of Till Bärnighausen. Humboldt professors are formally proposed by the University.

CONSULTING

<I stopped accepting consultancies in 1998>

- 1997 Étude de faisabilité pour un observatoire de santé au Mali. Bamako Mali. (for the Projet de Santé Publique et d'Hydraulique Rurale (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, Harvard (for USAID).

- 1994 Design and implementation of a Geographical Information System for the Social Sector of Bolivia. UDAPSO project, Bolivia. Harvard (for USAID).
- 1992 Design of a Health Management Information System for the MCH project, Yaoundé, Cameroon, Harvard (for USAID).
- 1991 Co-financing and Co-management of provincial health services through "Provincial Health Funds" in Cameroon, MCH-project, Yaoundé, Cameroon, Harvard (for USAID).
- 1986 Development of anthropometric predictors of low birth weight for the MOH, Burkina Faso (for the EC).

AWARDS

- Chevalier de l'Ordre National du Burkina Faso, 2004 (equivalent to the German "Bundesverdienstkreuz")
- INDEPTH mentorship award 2009
- Scholarship of the DAAD (German Academic Exchange Service), special award for epidemiology (1989-91) Master and Doctor of Public Health (M.P.H. and Dr.P.H.)
- Magna cum laude (MD-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	native		
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, R
Demography	Mortpak (indirect estimation of mortality and fertility),
GIS	ArcView
Qualitative research	NVivo, Ethnograph, AtlasTi,
Relational database	Microsoft Access
Spreadsheet	Excel
Project planning	Microsoft Project, On Target
Staff management	Manage Pro
Word processing	Word
Bibliographic software	Reference manager, Endnotes
Graphics	Draw, Corel, Micrografix Designer Suite
Presentations	Power Point
Concept development	Mind Manager

SERVICE ON SCIENTIFIC ADVISORY BOARDS

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

Austrian Panel on Climate Change. Co-author on "Special Report on Climate Change, and Demography", since 7/2017.

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

Wellcome Trust, UK, 2/2002 through 2/2004, and from 2011 to 2015.

Sanofi (Pharmaceutical Company), France, Scientific Advisory Council on "Climate Change and Health" (2015)

Ministère de l'Ecologie et du Développement Durable, Gouvernement Français : Conseil Scientifique: Gestion des Impacts du Changement Climatique (GICC)=Managing the impacts of climate change, 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.

Conseil Scientifique International, Centre de Recherche en Santé, Nouna, Burkina Faso (since 2000)

Micro Insurance Academy, New Delhi. 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

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 - Health Committee (2016-2018)
Royal Society of Medicine, UK. Invited member since July 2021
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 of Tropical Medicine (DTG)
German Association of Tropical Pediatrics
Gesellschaft Deutscher Naturforscher und Ärzte
International Society of Travel Medicine

PERSONAL INFORMATION

Married to Dr. Eser Sauerborn MD, since 1986. Four children.

Hobbies: Classical and fusion music, playing the piano, ethnic cooking, jogging, gardening, hiking, cross-country skiing, cycling, cross-cultural history of thought and discoveries, comparative philosophy

DOCTORAL STUDENTS AND HABILITATIONS

1. COMPLETED DISSERTATIONS (49)

Summa cum laude: 10/49* = 20,4% (Heidelberg University, average: <1%)

Magna cum laude 28/49* = 57.1%, Cum laude 14,1%, Failed: none

Average time-to-degree: 4.2 years, 51.1% women, *pass-fail exams are not counted

#	Name, first name	Country of origin	Discipline of candidate	Degree	Date of award	Durat'n (years)	Grade awarded
51	Banu, Bilkis	Bangladesh	Nutrition	Dr.Sc.	2023	5	Magna cum laude
50	Zabré, Pascal	Burkina Faso	Demography	Dr. Sc.	2023	5	Cum laude
49	Sorgho, Raissa	Burkina Faso	Biology	Dr. Sc.	2023	4	Magna cum laude
48	Mank, Isabel	Germany	Intl Developm't	Dr. Sc.	2022	4	Summa cum laude, tbc
47	Clauss, Alexandra	Germany	Oral Health	Dr. med.	2021	4	Only pass /fail
46	Codyre, Patricia	Ireland	Informatics	Dr. Sc.	2019	7	Cum laude
45	Herrmann, Alina	Germany	Medicine	Dr. med.	2018	4	Magna cum laude
44	Bunker, Aditi	N Zealand	Public Health	Dr.Sc.	2018	4	Summa cum laude
43	Belesova, Kristine	Latvia	Nutr.Epidem.	Ph.D.*	2018	4	Pass (only pass/fail)
42	Yasmin, Farzana ^o	Bangladesh	Medicine	Dr.med.	2018	5	Magna cum laude
41	Savadogo, Germain	Burkina F	Economics	Dr.Sc.	2017	5	Magna cum laude
40	Saronga, Happiness	Tanzania	Economics	Dr.Sc.	2017	4	Cum laude
39	Yé, Maurice	Burkina F	Medicine	Dr. med.	2017	5	Magna cum laude
38	Lietz, Henrieke	Germany	Management	Dr.Sc.	2017	4	Cum laude
37	Dalaba, Maxwell	Ghana	Economics	Dr.Sc.	2016	3.5	Magna cum laude
36	Haque, Aminul	Bangladesh	Sociology	Dr.Sc.	2015	3.5	Summa cum laude
35	Stahl, Christian	Germany	Economics	Dr.Sc.	2015	4	Cum laude
34	Anja Kluge ^o	Germany	Polit.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	Summa cum laude
29	Prytherch, Helen	U.K.	Public Health	Dr.Sc.	2013	3	Summa cum laude
28	Robyn, Jake	USA	Sociology	Dr.Sc.	2013	4	Magna cum laude
27	Hii, Yien Ling ^{oo}	Singapore	Statistics	Ph.D.	2013	4	Swedish Ph.D.: passed
26	Parmer, Divya	India	Economcis	Dr.Sc.	2012	4	Magna cum laude
25	Dambach, Peter	Germany	Geography	Dr.Sc.	2012	3	Summa cum laude
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	Malik, Ahmad	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	Summa cum laude
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	Summa cum laude
10	Pokhrel, Subhash	Nepal	Ecnomics	Dr.Sc.	2004	2.5	Summa cum laude
9	Hayat, Budi	Indonesia	Ecnomics	Dr.Sc.	2004	3	Summa cum laude
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

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

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

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

^o Co-supervised with Prof. Subratha Mitra, Political Science, South Asia Institute

^{oo} Co-supervised as guest professor at Umeå University with Drs. Nawi Ng and Joacim Rocklöv as supervisors

2. DISSERTATIONS CURRENTLY UNDER SUPERVISION (8)

100% women

	Name, first name	Country of origin	Discipline of candidate	Start	Planned defense	Degree
10	Julia Feriato Corvetto	Brazil	Medicine	2022	2025	Dr.med.
9	Kyra Lilier	Germany	Medicine	2021	2024	Dr.med.
8	Sophie Huhn [#]	Germany	Medicine	2021	2024	Dr.med.
7	Leonie Rybol [#]	Germany	Medicine	2021	2024	Dr.med.
6	Jessica Nieder [#]	Germany	Psychology	2020	2024	Dr.Sc.
5	Claudia Quitmann ^{oo}	Germany	Medicine	2020	2024	Dr.med.
4	Mariam Seynou ^o	Burkina Faso	Medicine	2017	2024	Dr.med.
3	Rasmila Kawan	Nepal	Nursing	2016	2024	Dr.Sc.
2	Johanna Kompenhans ^o	Germany	Medicine	2016	2024	Dr.med.
1	Ramona Popilian ^o	Germany/Romania	Medicine	2008	2024	Dr.med.

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

**with cand habil. Dr. Svetla Loukanova

^o with cand. habil. Dr. Aurélia Souares

[#] with cand. habil. Dr. Sandra Barteit

^{oo}with cand Habil. Alina Herrmann

2. MENTORED HABILITATIONS

(=Postdoctoral degree, required to be appointed to a professoral position in Germany, Austria, Switzerland, France)

Overall: 64% women

2.1. COMPLETED HABILITATIONS (14)

36% women

	Name, first name	Country of origin	Field of candidate	Degree	Year of award
14	Peter Dambach	Germany	Geography	Dr. habil. In Public Health	2020
13	Olaf Horstick	Germany	Public Health	Dr. habil. In Public Health	2018
12	Louis, Valérie	France	Environmental epidemiology	Dr. habil. in Public Health	2017
11	Svetla Loukanova	Bulgaria	Public Health	Dr. habil. in Public Health	2016
10	Phalkey, Revati	India	Public Health	Candidate was appointed as assistant professor at Nottingham university/UK in 2015, habilitation process was halted as a consequence.	2015
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	Dr. habil. in Public Health	2006
3	Müller, Olaf	Germany	Public Health		2004
2	Razum, Oliver	Germany	Public Health		2003
1	Jahn, Albrecht	Germany	Public Health		2001

*Change of habilitation ("Umhabilitation") from the "National University of Singapore"

2.2. HABILITATIONS CURRENTLY MENTORED (3)

or INTERRUPTED BECAUSE OF PROFESSORAL APPOINTMENT ABROAD (1)

100% women

	Name, first name	Country of origin	Field of candidate	Degree	Year of award
3	Alina Herrmann	Germany	Public Health	Dr. habil. in Public Health	2024
2	Sandra Barteit	Germany	Public Health	Dr. habil. in Public Health	2024
1	Souares, Aurélia	France	Public Health	Dr. habil. in Public Health	2025

Reviewing and assessment reports

Reviewer for several journals and organizations

Reviewer for journals

Nature Communications, New England Journal of Medicine, Proceedings of the National Academy of Sciences (PNAS), Lancet, Lancet Infectious Diseases, J of the Royal Society, BMJ Global Health, Health Economics, PLOS Medicine, PLOS One, Environmental Health Perspectives, Global Environmental Change, Health Affairs, Social Science and Medicine, Malaria Journal, American Journal of Public Health, Global Health Action, International Journal for Quality of Care, Tropical Medicine and International Health, Health Policy and Planning, Bulletin of WHO, Health Affairs, Scandinavian Journal of Public Health, BMC Health Research Policy and Systems, Experimental and Clinical Endocrinology & Diabetes.

Reviews for science funding organization

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), Israeli Science Foundation. Einstein Foundation, Berlin.

IPCC and national Climate Change Assessment reports:

Lead author:

5th Assessment Report, Working Group II, Chapter 11 on Health.

Reviewer for:

- 6th Assessment Report, Part II, Chapters on Health, Nutrition, Agriculture and Africa, First-Order Draft, IPCC, 2019.
- Special Report "Global Warming of 1.5 degree", IPCC, 2018.
- 4th Assessment Report, Working Group II, "Impacts, Adaptation and Vulnerability", Chapter 8, First Order Draft, IPCC, 2006
- Austrian Panel on Climate Change (APCC),
- Canadian Climate Change & Health Assessment (CCHA).
- Millennium Ecosystem Assessment under the auspices of WHO.

Editorial board work

PNAS, theme editor for climate change and health

BMC Public Health, Associate editor

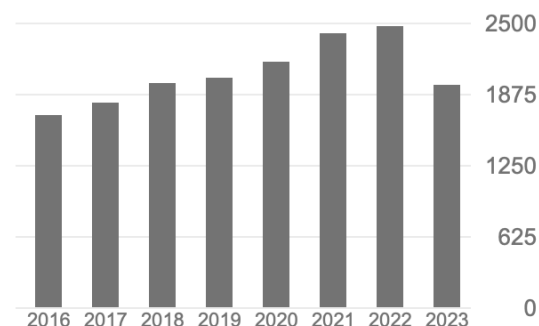
Global Health Action, Associate editor

PUBLICATIONS

Citation indexes

source: Google Scholar, accessed Oct 31, 2023

	all	since 2018
Total citations	27,939	13,153
h-index	68	44
i10-index	183	146



Summary (as of Oct 31, 2023)

252 Peer-reviewed publications

42 Book chapters

4 Books

1 Lead authorship for the IPCC Report AR5, WGII, Chapter 11 "Human Health", Cambridge University Press, 2014

Reviewer for health chapters of AR4 and AR6.

5 Policy white books (co-author) on "Global Environmental Changes" for the Scientific Advisory Board to the German Federal Government (WBGU).

6 Policy papers for the EU Commission, Directorates of Research and of Environment.

13 Internally reviewed discussion papers at Heidelberg/Harvard Universities.

195 Presentations, keynotes and posters at International Conferences.

1 Harvard Teaching Case, Harvard Institute for International Development.

(i) Peer-reviewed journal articles (252)

2023

252 Quitmann C, **Sauerborn R**, Danquah I, Herrmann A (2023) Reducing the carbon footprint of a German university: Perspectives from hospital stakeholders. J Climate Change Health 12, 2023 <https://doi.org/10.1016/j.joclim.2023.100247>

251. Banu B, Khan MH, Ali L, Bärnighausen T, **Sauerborn R**, Soares A (2023) Pattern and predictors of non-adherence to diabetes self-management recommendations among patients in peripheral district of Bangladesh. Trop Med Intl Hlth. <https://doi.org/10.1111/tmi.13966>.

250. Schwerdtle Nayna P, Devine C, Guevara M, Cornish S, Christou C, Wyns A, Max Jungmann M, **Sauerborn R**, Voûte C (2023) What cannot be mitigated or adapted to, will be suffered. Loss and damage in humanitarian terms. J Climate Change & Health <https://doi.org/10.1016/j.joclim.2023.100270>

249. Müller C, Quédraogo WA, Schwarz M, Barteit S, **Sauerborn R** (2023) The effects of climate change-induced flooding on harvest failure in Burkina Faso: case study. Front. Public Health 11:1166913, Doi: 10.3389 /fpubh.2023.1166913.

248. Quitmann C, **Sauerborn R**, Danquah I, Herrmann A (2023) Climate change mitigation is a hot topic, but not when it comes to hospitals: a qualitative study on hospital stakeholders' perception and sense of responsibility for greenhouse gas emissions. *J Med Ethics* 2023;49:204-210.
<https://doi.org/10.1136/medethics-2021-107971>
247. Nyawanda B, Beloconi A, Khagayi S, Bigogo G, Munywoki P, Kariuki S, Obor D, Otieno NA, Emukule G, Lange S, Franke J, **Sauerborn R**, Utzinger J, Munga S, Vounatsou P (2023) The role of climate variability on malaria incidence in the face of intensified control programmes in the lowlands of western Kenya during 2008-2019. *Parasite Epidemiology & Control*, Vol 21 May 2023
<https://doi.org/10.1016/j.parepi.2023.e00297>.
246. Rybol L, Nieder J, Amelung D, Hachad H, Sauerborn R, Depoux A, Herrmann A (2023) Integrating climate change and health topics into the medical curriculum – a quantitative needs assessment of medical students at Heidelberg University in Germany. *GMS Journal for Medical Education* 2023;40(3).
<https://dx.doi.org/10.3205/zma001618>.
245. Schwarz M, Ouédraogo WA, Traoré I, Müller C, Sié A, Barteit S, Mank I, Siegert F, **Sauerborn R**, Franke J (2023) Satellite-based multi-annual yield models for major food crops at the household field level for nutrition and health research: a case study from the Nouna HDSS, Burkina Faso *International Journal of Applied Earth Observation and Geoinformation*, 117, 2023.
<https://doi.org/10.1016/j.jag.2023.103203>.
244. Barteit S, Sié A, Zabré P, Issouf I, Ouédraogo A, Boudo V, Munga S, Khagayi S, Obor D, Muok E, Franke J, Blass K, Su TT, Bärnighausen T, Sankoh O, **Sauerborn R** (2023) Widening the lens of population-based health research to climate change impacts and adaptation: The Climate and Health Surveillance and Response System (CHEERS) *Frontiers in Public Health* (accepted).
243. Corvetto JF, Helou AY, Dambach P, Müller TO and **Sauerborn R** (2023) A systematic literature review of the impact of climate change on the global demand for psychiatric services. *Int. J. Environ. Res. Public Health* 2023, 20(2), 1190; <https://doi.org/10.3390/ijerph20021190>.

2022

242. Huhn S, Koch M, Sié A, Ouédraogo WA, Compaoré G, Bunker A, Sauerborn R, Barteit S (2022) Using wearable devices to generate real world, individual-level data in rural, low-resource contexts in Burkina-Faso, Africa: A case study. *Frontiers in Publ Hlth* (accepted).
241. Belesova K, Sié A, Traoré I, Wilkinson P, **Sauerborn R** (2022) Child survival and annual crop yield reductions in rural Burkina Faso: critical windows of vulnerability around early life development. *Amer J Epidem* (accepted).
240. Barteit S, Boudo V, Ouédraogo AW, Zabré P, Ourémi L, Sié A, Munga S, Obor D, Kwaro D, Huhn S, Compaoré G, Bunker A, **Sauerborn R**, Gunga H-C, Maggioni M, Bärnighausen T (2022) Feasibility, acceptability and validation of wearable devices

for climate change and health research in the low-resource contexts of Burkina Faso and Kenya: Study protocol. PLoS ONE 16(9):e0257170. <https://doi.org/10.1371/journal.pone.0257170>.

239. Zabré SP, Traorhuhné I, Sié A, **Sauerborn R**: La Côte d'Ivoire demeure-t-elle la au Burkina Faso? Revue de Géographie de l'Université de Ouagadougou 11(3): 51-66, 2022.
238. Banu B, Ko CK, Khan MH, Ali L, Bärnighausen T, **Sauerborn R**, Souares A (2022) Effects of traditional versus m-Health educational interventions for diabetic patients: a randomised controlled trial in peripheral district of Bangladesh. Diabetes Epidemiology & Management (accepted).
237. Nieder J, Schwerdtle P, **Sauerborn R**, Barteit S (2022) Massive Open Online Courses (MOOCs) for health worker education in low-and middle-income countries: A scoping review. Frontiers in Public Health. 2022;10:891987.
236. Yeboah E, Kuunibe N, Mank I, Parisi D, Bonnet E, Lohmann J, Hamadou S, Picbougoum BT, Belesova, K, **Sauerborn R**, Baernighausen T, Danquah I, De Allegri M (2022). Every drop matters: combining population-based and satellite data to investigate the link between lifetime rainfall exposure and chronic undernutrition in children under five years in rural Burkina Faso. Environ. Res. Lett. 17 054027. <https://doi.org/10.1088/1748-9326/ac661c>
235. Huhn S, Axt M, Gunga H, Maggioni MA, Munga S, Obor D, Sié A, Boudo V, Bunker A, **Sauerborn R**, Bärnighausen T, Barteit S (2022). The impact of wearable technologies for health research: a scoping review. JMIR Mhealth Uhealth; 10(1):e34384. <https://doi.org/10.2196/34384>
234. Vinke K, Rottmann S, Gornott C, Zabre P, Nayna Schwerdtle P, **Sauerborn R** (2022). Is migration an effective adaptation to climate-related agricultural distress in sub-Saharan Africa?. Popul Environ 43, 319–345. <https://doi.org/10.1007/s11111-021-00393-7>.

2021

233. Sorgho R, Jungmann M, Souares A, Danquah I, **Sauerborn R**. (2021) Climate change, health risks and vulnerabilities in Burkina Faso: a qualitative study on the perceptions of national policymakers. Int J Environ Res Public Health, 18(9), 4972; <https://doi.org/10.3390/ijerph18094972>.
232. Barteit S, Boudo V, **Sauerborn R**, Gunga HC, Kwaro D, Maggione M, Bunker A, Bärnighausen T (2021) Feasibility, acceptability and validation of wearable devices for climate change and health research in the low-resource contexts of Burkina Faso and Kenya: Study protocol. PLOS ONE. 2021 Sep 30;16(9):e0257170. DOI: <https://doi.org/10.1371/journal.pone.0257170>
231. Mank I, Belesova K, Blifernicht J, Traoré I, Wilkinson P, Danquah I, **Sauerborn R** (2021) The impact of rainfall variability on diets and undernutrition of young children in rural Burkina Faso. Frontiers in Public Health 9, 693281. <https://doi.org/10.3389/fpubh.2021.693281>

230. Dambach P, Bärnighausen T, Yadouleton A, Dambach M, Traoré I, Korir P, Ouédraogo S, Mikiema M, **Sauerborn R**, Becker N, Louis V (2021) Is Biological Larviciding against Malaria a Starting Point for Integrated Multi-Disease Control? – Observations from a Cluster Randomized Trial in rural Burkina Faso. PLOS ONE (accepted).
229. Clauss A, Sié A, Zabré P, **Sauerborn R***, Listl S* (2021) Population-based prevalence of oral conditions as a basis for planning community-based interventions: An epidemiological study from rural Burkina Faso. *Frontiers in Public Health* (accepted).
*shared last authorship
228. Hillebrecht M, Klonner S, **Sauerborn R**, Sié A, Souares A (2021) The Demand for Health Insurance in a Poor Economy: Evidence from Burkina Faso. *Econ Development & Cultural Change* (accepted 14-5-2021).
227. Banu B, Yasmin F, Khan MH, Ali L, **Sauerborn R**, Souares A (2021) A Systematic Review on Knowledge-Attitude-Practice on diabetes: Assessment Process and Outcome Levels. *Res J Pharmacol & Technol* (accepted July 13, 2021)
226. Quitmann C, **Sauerborn R**, Herrmann A (2021) Gaps in Reporting Greenhouse Gas Emissions by German Hospitals – A Systematic Grey Literature Review. *Sustainability* 13(3), 1430; <https://doi.org/10.3390/su13031430>.

2020

225. Schwerdtle P, Stockemer J, Bowen K, **Sauerborn R**, McMichael C and Danquah I (2020). A Meta- Synthesis of Policy Recommendations Regarding Human Mobility in the Context of Climate Change. *Int J Environ Res Public Health*; 17(24), 9342; <https://doi.org/10.3390/ijerph17249342>
224. Sorgho R, Montenegro C, Louis V, Winkler V, Dambach P, **Sauerborn R**, Horstick O (2020) Climate change policies in 16 West African countries: a systematic review of adaptation with a focus on agriculture, food security, and nutrition. *Int J Environ Res Public Health*,2020,17(23) <https://doi.org/10.3390/ijerph17238897>.
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(iii) Teaching case (Harvard Business School format)

with Marina Cárdenas, Charles Myers, Paul Gertler, Federico Martinez, Jeanne Madden: Simulation of the effect of user fees and co-payments on the demand for health care in urban Bolivia; for use in the "Summer Course on Health Care Financing in Developing Countries", Harvard Institute for International Development.

2) Books (4)

4. Yé Y, Sankoh AO, Kouyate B, **Sauerborn R** (2010) Environmental factors and malaria transmission risk. Ashgate Publishing Group, UK, 160 pages.
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3) White books & policy papers for the Federal German Government(11)

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) (2000-2004). All white books are available in English translation and as hardcopy (Earthscan).

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4. Book chapters (42)

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38. Sorgho R, Jonas F, Simboro S, Barteit S, Sauerborn R. (2018) Utilizing remote sensing at a subsistence farming level to explore child undernutrition in the context of climate change. In: Kallel A., Ksibi M., Ben Dhia H., Khélifi N. (eds) Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions. EMCEI 2017. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development). Springer Verlag, Cham.
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 26. **Sauerborn R** (2010) Micro-insurance and Micro-credit: any synergies? In: Sax W (ed). Health Transitions in India. Routledge Publisher.
 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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 23. **Sauerborn R** (2007) Kontrolle tropischer Infektionskrankheiten. In: Warnsignal Klima – Mögliche Auswirkungen für Menschen, Tiere und Pflanzen. Springer-Verlag.
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 11. **Sauerborn R** (2000) Using information to make decisions. In: Lippeveld T, **Sauerborn R**, Bodart C. Design and implementation of health information systems. WHO Monograph, Geneva, pg. 33-48.

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9. **Sauerborn R**, Lippeveld T (1995) HIID projects in health system development - history and lessons learned. In: HIID - projects and lessons learned, Harvard Institute for International Development.
8. **Sauerborn R** (1994) Household strategies to cope with the economic costs of illness - a community-based study in Burkina Faso. Doctoral Dissertation, Harvard University, 318 pages.
7. **Sauerborn R**, Nougara A, Diesfeld HJ (1992) Action research on health services in Burkina Faso: concept and methodology 1988-1992. In: Methodology of Health Systems Research. Research reports of the Conference on "Methodology and relevance of health systems research" held by the Commission of the European Communities, Directorate XII "Science, Research and Development", pg. 43-55.
6. Diesfeld HJ, Nougara A, **Sauerborn R** (1992) The baseline survey 1984/87 in Solenzo. in: Methodology of Health Systems Research. Research reports of the Conference on "Methodology and relevance of health systems research" held by the Commission of the European Communities, Directorate XII "Science, Research and Development", pg. 26-42.
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3. **Sauerborn R**, Nougara A, Diesfeld H 1985. Etude sur l'utilisation des soins de santé primaires à Solenzo - rapport final. Ministère de Santé Publique, Ouagadougou, 248 pp. Burkina Faso.
2. **Sauerborn R** (1976) Impulszytometrische Untersuchungen über die DNA-Verteilung in normaler und 12-o-tetradecanoyl-phorbol-13-acetat stimulierter Mäuseepidermis sowie in gut- und bösartigen Tumoren der Mäusehaut, 205 pages, Ph.D. Dissertation, University of Heidelberg.
1. **Sauerborn R** (1987) Verwaltungsaufgaben in ländlichen Gesundheitszentren im frankophonen Westafrika. in: Diesfeld HJ and Wolter S (Hrsg.) Medizin in Entwicklungsländern, pg. 217-223. Lang Verlag, Frankfurt, Berlin, Bern, New York, Paris, Wien.

5. Policy briefs for the EU Commission

Policy briefs for City, national and EU-level decision-makers on policies to help households reduce their emissions – results from a household study in 4 European countries.

5. What were the HOPE methods to study household preferences for reducing greenhouse gas emissions?
4. Which mitigation actions are households willing to implement?
5. What are the reasons behind households' preferences for reducing greenhouse gas emissions?
2. What role do health co-benefits play in households' decision-making?
1. How can policies enable households to contribute to the 1.5°C goal?

6. Press release for the German Ministry of Research and Education (BMF)

Herrmann A, Sauerborn R, on behalf of the HOPE project team. "Household behavior change, supported by policy, is key for reaching the 1.5°C warming goal". Press Release of the German Ministry of Research and Education (BMBF) Due to be online on Oct 1, 2018.

7) Book review

1. **Sauerborn R** (2002) Human frontiers, environments and diseases by Anthony Mc Michael. Cambridge University Press. Book review. *Global Change & Human Health* 2(2).

PRESENTATIONS & POSTERS (203)

2023

203. Kamil Z, Ibrahim R, Ismail AS, Barteit S, Depoux A, **Sauerborn R** (2023) Advancing climate change and health learning in Maldives: a MOOC with augmented reality integration. LW MOOCs conference, MIT, Cambridge, USA, Oct 11-13, 2023 (best poster prize).
202. Corvetto J, Federspiel A, Sewe MO, Müller T, Bunker A, **Sauerborn R** (2023) Effects of heat on emergency department visits for mental health conditions in the city of Curitiba, Brazil. Annual Congress of the German Association for Psychiatry, Psychotherapy and Psychosomatics (DGPPN), Berlin, 30.11.-2.12.2023 (accepted).
201. **Sauerborn R** (2023) Climate justice and the North-South divide: climate change, health and nutrition in Africa: examples of impacts and solutions. Centre Marc Bloch/French Embassy, Berlin. June 3, 2023.
200. **Sauerborn R** (2023) Why is health important for climate and foreign policy= Invited presentation at the German Society for Foreign Policy (DGAP), Berlin, May 8, 2023.
199. **Sauerborn R** (2023) The impacts of climate change on public health in small island states (Invited keynote) Maldives National University, Malé, Feb 26, 2023.

2022

198. Sauerborn R (2022) Inhabitability from food insecurity and heat. Invited lecture at seminar "Habilitabilités", Nov 24, 2022.
197. Herrmann A, Quitmann C, Franke B, **Sauerborn R** (2022) Mitigating Scope 3 emissions of the health sector while reaping health co-benefits – a case study at the Heidelberg University Hospital. COP27, Sharm-el-Sheikh, Egypt, UNFCCC side event, Nov 17, 2022.
196. **Sauerborn R** (2022) Climate-resilient food systems and planetary health – through the lens of smallholder farmers in sub-Saharan Africa. COP27, Sharm el-Sheikh, Egypt. Nov 14, 2022.

2021

195. **Sauerborn R** (2021) Changement climatique et santé: défis pour la recherche en Afrique. 5èmes Journées Scientifiques du Conseil Africain et Malgache pour l'Enseignement Supérieur (CAMES) in cooperation with the DFG, Dec 6-9, 2021
194. **Sauerborn R**, Jungmann M (2021) Climate Change and Health - Impacts and Adaptation Options for Vulnerable States in Sub-Sahara Africa. Organizers of side event at the German Pavilion (blue zone) at COP26, Glasgow, Nov 6, 2021 (in person).
193. **Sauerborn R**, Gunga HC (2021) Heat impact on work productivity Side event at the German Pavilion (blue zone) at COP26, Glasgow, Nov 6, 2021 (in person).
192. **Sauerborn R**, Danquah I, Bunker A, (2021) Diabetes and climate change: where are the links? Autumn Meeting of the German Society of Diabetes, Wiesbaden, Nov 6, 2021 (remotely).

191. **Sauerborn R** (2021) Climate change and health – what are the issues. National Finnish Academy of Science, Helsinki. Keynote for “CLIHE- Climate Change and Health Academy Programme, January 14, 2021.

2020

190. **Sauerborn R**, Sié Ali, Barteit S, Blass K, Bärnighausen T (2020) A digital global health lab in West Africa. Global Health Seminar Series, Heidelberg Institute for Global Health. Heidelberg, 30.8.2020.
189. **Sauerborn R** (2020) Climate change and health: impacts and responses (invited keynote). Voices in Health seminar series, The University of British Columbia, Vancouver, Canada, May 26, 2020.
188. **Sauerborn R** (2020) Climate change and health (Invited keynote). Universität Bonn, June 10.2020
187. **Sauerborn R** (2020) Strategies to protect child nutrition from climate change. Keynote, Tropentag Hohenheim, Sept 9, 2020.
186. **Sauerborn R** (2020) Physician’s role in a warming world Ärztekammer Nordrhein, Düsseldorf, May 27, 2020.
185. **Sauerborn R** (2020) Medizin in Zeiten des Klimawandels. 25th Annual Meeting of FIDE, Bruchsal, February 7, 2020.

2019

184. **Sauerborn R**. Climate change and health in Germany and globally. Sub-Committee on Global Health of the Federal Parliament, Berlin, Sept 25, 2019.
183. **Sauerborn R**, (invited keynote) Planetary Health: was bedeutet der Klimawandel für die Medizin? (Planetary Health – what implication does climate change have for medical care?) German Association of Urology (Dt. Gesellschaft für Urologie), 71 Annual Meeting, Hamburg, Sept 19, 2019.
182. **Sauerborn R**, Bunker A, Danquah I, USA (invited keynote) Heat and diabetes – a global lens. American Diabetic Association, 79th Annual Meeting, San Francisco, USA, June 7-11, 2019.
181. **Sauerborn R** (invited keynote) (2019) Climate change and health: research challenges in the Global South. Conference “Climate Change and Health, Swiss Tropical and Public Health Institute, December 5-6, 2019.

2018

180. **Sauerborn R**. Climate change, agriculture, child nutrition and mortality in subsistence farming households in Africa. Harvard Kennedy School, Harvard Chan School of Public Health and Harvard Center for African Studies. Cambridge, USA, November 6-7, 2017.
179. **Sauerborn R**. Climate change, agriculture and health in Africa, Harvard Radcliffe Accelerator Workshop, May 7 & 8, 2018, Cambridge, USA.
178. Paul Wilkinson P, **Sauerborn R**, Fischer H, Louis V, Herrmann A, Amelung D, Barbier C, Dubois G, Nadaud F, Sköld B, Aall C (2018) Multi-Criteria Assessment of Household Preferences for Reducing Greenhouse Gas Emissions: An Analysis of

Household Survey Data from Four European Cities. ISEE-ISES Joint Annual Meeting, Basel. Published in *Envmtl Hlth Perspectives*.

<https://ehp.niehs.nih.gov/doi/abs/10.1289/isesisee.2018.P02.3960>.

177. **Sauerborn R.** Climate change and infectious diseases (invited keynote). (2018) *Global Change and Infectious Diseases*. Leipzig Gesellschaft. Braunschweig, 22.11.2018.
176. **Sauerborn R.** Impact des Klimawandels auf Makro und Mikronährstoffmangel in (sub-)tropischen Ländern (Impact of climate change on macro- and micronutrient deficiency in (sub-)tropical countries). Invited keynote at 55th Annual Meeting of the German Nutrition Society (DGE), Hohenheim, March 6-9, 2018.
175. Mank I, Traoré Y, **Sauerborn R** Linear growth retardation of children under five in Burkina Faso: baseline results of a cohort study to explore the impact of weather variability on child nutrition. Poster presented at the 55th Annual Meeting of the German Nutrition Society (DGE), Hohenheim, March 6-9, 2018.
174. **Sauerborn R.** Health co-benefits as a tool to promote citizens' climate friendly behavior. Invited seminar. UNFCCC Secretariat, Bonn, Feb 2, 2018
173. **Sauerborn R.** Adaptation to climate change in South Asia. Médecins Sans Frontières. SPuth Asi Regional Association Meeting, Delhi, April 6, 2018.

2017

172. **Sauerborn R,** Belesova K, Wilkinson P, Sorgho R, Traoré I, Gornott C, Mank I. Climate change, agriculture, child nutrition and mortality in subsistence farming households in Africa. Symposium on Agriculture, Nutrition, Health and the Environment. Harvard Kennedy School & Harvard Chan School of Public Health & Harvard Center for African Studies. Cambridge, USA. November 6-7, 2017.
171. **Sauerborn R.** Research strategy for linking the Climate and the Health communities in Germany (invited keynote). Leopoldina German Academy of Sciences, Workshop Dec 4-5, 2017, Potsdam Institute for Climate Impact Research.
170. **Sauerborn R.** Why care about health impacts, apart from humanitarian reasons? (invited keynote). *Impacts World*, Potsdam/PIK, Oct 11-13, 2017
169. **Sauerborn R.** Climate change destabilized many infectious diseases from the arctic to the equator: a call for action. Conference on Impacts of Environmental Changes on Infectious Diseases, convened by Elsevier, Trieste/Italy, May 19, 2017.
168. **Sauerborn R.** Data sets and methods to study the impact of climate change on health in poor countries: the research challenge. Workshop "Global longitudinal retrospective health data sets (HDSS) - the perfect storm for empirical research on the impacts of climate change on nutrition and health", Harvard Chan School of Public Health and Harvard Global Health Institute, Cambridge MA, April 25, 2017.
167. **Sauerborn R.** A physician's view of climate change. Symposium "Human Health in a Changing Climate, Jefferson Hall, Cambridge MA, April 27, 2017.
166. **Sauerborn R,** Bärnighausen T. Research on Global Health and Climate Change: concepts and examples. Harvard Chan School of Public Health, Boston MA, April 13, 2017.

165. **Sauerborn.** Climate change and health in Africa and Asia: what are the links. INDEPTH workshop on health systems challenges. Sierra Leone, March 23-27, 2017.
164. **Sauerborn R.** Climate change and child under nutrition: hot topic or hot air? 3rd Intl. Congress on Hidden Hunger, Stuttgart-Hohenheim, March 20-22, 2017.
163. **Sauerborn R.** The limits of adaptation to the damaging health effects of climate change. Conference "Climate Change and Health", convened by Vice Present Al Gore, Carter Center, Atlanta, February 16, 2017.
162. **Sauerborn R.** The built environment - the black carbon story "in" and "out". Emerging Markets Symposium, Oxford University, Uk, January 12-15, 2017.
161. **Sauerborn R,** Gutmann F, Nilsson M, Mahendradhata Y, Bligny JC. Bottom-up assessment of the GHG footprint of pharmaceuticals - from raw materials to patient end use. International Symposium on Green Chemistry, La Rochelle, France, May 16-19, 2017

Young scientist posters presented at the German IPCC preparatory meeting, Lauen (Berlin), February 20-21, 2017:

160. Belesova K, Gornott C, Sié A, **Sauerborn R***, Wilkinson P*. Health impact of low crop yield in rural Burkina Faso under current & future weather variability. *shared last authorship
159. Bunker A, Maquins S, Sié A, Rocklöv J, **Sauerborn R.** Impact of heat on non-communicable diseases in rural Africa: a blind spot in research.
158. Mank I, Belesova K , Diboulo E, Franke J, Sorgho R, Traoré I, Wilkinson P, **Sauerborn R.** Climate change impact on child undernutrition: potentially high, but more research needed.
157. Kawan R, Roy S, Beig G, **Sauerborn R.** Climate and health co-benefits from reducing indoor air pollution.
156. Herrmann A, Aall C, Amelung D, Fischer H, Dorner F, **Sauerborn R.** The crucial role of households and health in 1.5°C policies - a comparative survey from Mannheim, Aix-en-Provence, Bergen and Umeå.
155. Fischer H, Schütte S, Kowalski C, Amelung D, **Sauerborn R.** How understandable are IPCC graphs? Evidence from the COP22 in Marrakesh.

2016

154. **Sauerborn R** Capturing the Carbon Dividend- The Health Benefits of Climate Mitigation Invited Keynote). Harvard Law School Wasserstein Hall, Milstein West AB, 1585 Massachusetts Avenue. December 13, 2016
153. **Sauerborn R.** "Climate change: hot topic or hot air"? Global Health Seminar, Harvard Chan School of Public Health. Dec 14, 2016.
152. **Sauerborn R.** Air Pollution, Climate Change and Health. Invited keynote "Science Circle Lecture". Gulmohar Hall, India Habitat Centre, Delhi. Oct 25, 2016
151. **Sauerborn R.** Research agenda on Climate Change and Health (invited keynote), Research symposium of the Potsdam Institute for Climate Impact Research (PIK), Jan 27, 2016

150. **Sauerborn R.** Climate change and global health. Knowledge generation, dissemination and translation (invited keynote), Research retreat of the Institute of Biometrics and Public Health, LMU University, Munich.; June 22, 2016.

2015

149. Vandenberg A and Sauerborn R. "Prevention of adverse heat effects on elderly – a qualitative study among GPs in Germany", Pitch Presentation, European Public Health Conference, Milan 2015
148. **Sauerborn R.** Climate change and health. The Nouna-Heidelberg collaboration in research and teaching. 15th Anniversary Symposium of the Nouna Health Research Center, Nouna, July 31 -August 1, 2015
147. **Sauerborn R.** Altersbezogenen Gesundheits- und Krankheitskonzeptionen aus internationaler Perspektive (Concepts of health, disease and aging in international perspective). Studium generale/ Network for Aging Research Heidelberg. University Hall, May 18, 2015.
146. **Sauerborn R.** Why should health be a key argument in climate negotiations? Can a MOOC help to bring the message across? COP Side Event "Healthy Lives on a Healthy Planet convened by Lancet, Rockefeller Foundation, WHO. COP21, Paris, Dec 11, 2015.
145. Lietz H, Moustapha M, Sié A, Souares A, Tozan Y, **Sauerborn R.** Measuring population health: costs of alternative survey approaches in the Nouna Health and Demographic Surveillance System Burkina Faso. Sauerborn R. INDEPTH International scientific conference. Addis Ababa Nov 11-13, 2015
144. **Sauerborn R.** Research on climate change and health: challenges and opportunities for the INDEPTH network. INDEPTH International scientific conference. Addis Ababa, Nov 11-13, 2015
143. **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.
142. **Sauerborn R.** Les co-bénéfices de santé pour les ménages, qui réduisent leurs empreintes de carbone. Atelier "Extension du domaine de la santé: Intégrer le changement climatique en ville" Paris, Région Île de France, Hémicycle, Paris IDF, October 16, 2015.
141. **Sauerborn R.** The scientific nexus of climate & health: a theme for the Institut Pasteur? Annual World Plenary Meeting of the Institut Pasteur, Paris, October 15-16, 2015.
140. **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.

139. **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.
138. **Sauerborn R.** Communication climate change and health to populations and policy-makers. Symposium of the Université Franco-Allemande. Centre de Santé Publique Virchow-Villermé, Université Paris Sorbonne-Cité/Paris Descartes, September 10, 2015.
137. **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.
136. **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
135. **Sauerborn R.** The role of climate change in global health. Workshop "Global Health Education", Institut Pasteur, Paris, June 25, 2015.
134. 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.
133. **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:

132. 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.
131. 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.
130. 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.

Posters at the UNESCO scientific conference "Our common future under climate change":

129. Bunker A, Diboulo E, Marquins S, Ego 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.
128. 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.
127. **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

126. **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.
125. **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.
124. Vandenberg, 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.
123. 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.
122. 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.
121. 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

120. **Sauerborn R.** Health and Demographic Surveillance Systems: a tool for research on climate change and health? London School of Hygiene Lecture Series, October 24, 2013.
119. Souares I, Diboulo E, Niamba L, Zabré P, Bagagna C, Sié A, **Sauerborn R.** Comprehensive disease assessment in a contiguous population. Annual Meeting of the Center for Infectious Diseases Control, Braunschweig, November 11-13, 2013.
118. **Sauerborn R.** Increasing provider motivation in health care. Invited seminar at Kilimanjaro Christian Medical University College, Moshi, Tanzania, March 25, 2013

117. **Sauerborn R**, Hoefle B. Climate impact on malnutrition - a geospatial and public health approach. Heidelberg Center for the Environment. October 14, 2013.
116. Diboulo E, Souares A, Sié A, Yé M, **Sauerborn R**. Calculation of the community-based burden of diseases as the analytic dimension of comprehensive diseases assessment (CDA). INDEPTH Scientific Conference, Witswatersrand University, Johannesburg, South Africa, October 28-31.
115. Sié A, Souares A, **Sauerborn R**. Integrating disease information into the data engine of HDSS. INDEPTH Scientific Conference, Witswatersrand University, Johannesburg, South Africa, October 28-31.

2012

114. **Sauerborn R**. One health: learning from the past, defining the present, envisioning the future. Global Risk Forum Davos, One Health Summit: One Health-One Planet-One Future Davos, February 19-22, 2012.
113. Wall S, Sankoh O, Diwan V, **Sauerborn R**. Combining mortality and morbidity for understanding shifting disease burdens. Heidelberg University, July 11, 2012.

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 1st, 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? 14th 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 25th 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. GEOSS 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. 14th 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,** Vignolles 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, Savadogo 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, Savadogo 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. 13th Annual Meeting, May 3-7, 2008, Toronto.
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. FINDEPTH-Network 4th 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 1st, 2006.
78. **Sauerborn R.** Climate change impact on infectious diseases – impacts and adaptation. Keynote lecture, Conference EcoHealth ONE, Madison, October 7-9, 2006.
77. **Sauerborn R.** Reaching the poor: Does community-based health insurance help? Global Forum for Health Research, Cairo, October 29 – Nov 2, 2006.
76. **Sauerborn R.** Health Insurance for the Poor: a Dream or a Possibility? The American University, Cairo, November 1st, 2006.
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'm 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

62. **Sauerborn R**. The political economy of affliction, presentation and session chair: 1st EMBL conference. Infectious diseases and society. EMBL, Heidelberg, November 8-9, 2002.
61. **Sauerborn R**. Strategien gegen Gesundheitsbedrohung durch globalen Klimawandel. Ringvorlesung des Wissenschaftlichen Beirats der Bundesregierung Globale Umwelt-veränderungen und der Universität Bremen: auf dem Richtigen Weg? Zum Weltgipfel für Nachhaltige Entwicklung, Johannesburg 2002. Universität Bremen, June 11, 2002.
60. Hidayat B, Cashin C, **Sauerborn R**. Assessing the impact of health insurance on medical care. Asia Pacific Conf. "Health Insurance and Managed Care". Indonesia, May 22-25, 2002.
59. **Sauerborn R**. Demographic surveillance as a tool for public health research. Hanoi School of Public Health, Hanoi, Vietnam, February 13, 2002.

2001

58. **Sauerborn R**. Global environmental change and its impact on infectious diseases. Intl. Symposium "The future of tropical infectious diseases", Heidelberg, September 25-16, 2001.
57. **Sauerborn R**. Agriculture, Nutrition and Health. – Keynote lecture. Tropentag, Bonn, October 11, 2001.
56. Mugisha F, Kouyate B, Dong H, **Sauerborn R**. Costing health care interventions at primary health facilities in rural Burkina Faso: Abstract, Proceedings of the 3d Conference of the International Health Economics Association (IHEA), York, July 22-25, 2001.

2000

55. **Sauerborn R**, Yé Y. Demographic surveillance systems: a tool for the analysis of patterns of tropical diseases. Oxford 2000: New challenges in tropical medicine and parasitology, Oxford, United Kingdom, 18 – 22 September 2000.

54. Gbangou A, Würthwein R, **Sauerborn R**, Schmidt C. Years of life lost (YLL) by cause age and sex, in Nouna district, Burkina Faso - Comparison with the YLL and DALY estimates of the GBD program. Oxford 2000: New challenges in tropical medicine and parasitology. Oxford, United Kingdom 18 – 22 September 2000.
53. **Sauerborn R**, Telser H, Gbangou A. Assessing the willingness-to-pay insurance premiums in Burkina Faso XVth International Congress for Tropical Medicine and Malaria, Cartagena, 2000.
52. Dror D, Kutzin J, **Sauerborn R**. The concept of community-based insurance. XVth International Congress for Tropical Medicine and Malaria, Cartagena, 2000.
51. Krause G, **Sauerborn R**. A Comprehensive Study of Community Effectiveness: Malaria Treatment for Children and Adults in Rural Burkina Faso. XVth International Congress for Tropical Medicine and Malaria, Cartagena, 2000.
50. Kouyaté B, Sanon M, Sommerfeld J. **Sauerborn R**. Household preferences for benefit packages to be covered by community-based insurance. Household preferences for benefit packages to be covered by community-based insurance. XVth International Congress for Tropical Medicine and Malaria, Cartagena, 2000.
49. **Sauerborn R**, Fon P, Gbangou A, Kouyaté B, Lesser M, Yé Y. 2000. Willingness to pay for community-based insurance in rural Burkina Faso: Results from an exploratory study. 7th International Conference on System Science in Health Care, Budapest, May 29 - June 2, 2000.
48. Gerhardus A, Marx M, Sauerborn R. Can we assess our impact? A proposal for indicators to measure the use of research for policy-making. International Conference on Health Research for Development, Bangkok, October 10-13, 2000.

1999

47. Vargas V, Yondo D, Gbangou A, Somé F, Wahser U, **Sauerborn R**. District Health Accounts: Sources and Uses of Health Expenditures in a District in Burkina Faso. Presentation to the 2nd World Conference on Health Economics (IHEA), Rotterdam, June 6-9, 1999.
46. **Sauerborn R**. Seguro social et cajas de enfermedades para el sector informal en America Latina. Conference of the Pan American Health Organization, Washington, DC, 1999.

1998

45. **Sauerborn R**, Schmidt CM, Baltussen R, Snow R, Gauss T, Vargas V, Sommerfeld J. Towards community-based assessment of the burden of illness. Paper for discussion at the "Global Forum on Health Research" WHO, Geneva, June 26-28, 1998.

1997

44. **Sauerborn R**. Community-based health insurance in Sub-Saharan Africa - wishful thinking? German Association of Tropical Pediatrics, Kiel, January 24-26, 1997.

1996

43. **Sauerborn R**. Gesundheit - eine internationale Perspektive. Festrede zur Verleihung der Doktorwürde der Medizinischen Fakultät. Universität Heidelberg, 1996.

1995

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37. **Sauerborn R.** Über die Beziehung zwischen Finanzierung und Nutzung von Gesundheitsdiensten in Entwicklungsländern. Heidelberg University, Germany, June 28, 1995.
36. **Sauerborn R.** Health impact assessment at low cost - the case of Burkina Faso. World Bank Luncheon Seminar Series, World Bank, Washington DC, May 24, 1995.
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