

# Biodiversity and Health in the Face of Climate Change – Challenges, Opportunities and Evidence Gaps

27 - 29 JUNE 2017, BONN / GERMANY



## List of Posters

(sorted under session topics)

SESSION 1 - Biodiversity or green space? Evidence for contribution to health in a changing climate				
No	Titel	Author	Presenter	Affiliation
1	Unveiling urban green heterogeneity. The Barcelona case study in a Mediterranean setting.	Pablo Knobel Guelar <sup>1</sup> Roser Maneja Zaragoza <sup>1</sup> Payam Dadvand <sup>2</sup> Martí Boada i Juncà <sup>1</sup>	Pablo Knobel Guelar	<sup>1</sup> Institut de Ciència i Tecnologia Ambientals (ICTA). Universitat Autònoma de Barcelona (UAB) <sup>2</sup> Instituto de Salud Global de Barcelona - Campus MAR (ISGlobal)
2	Let's Go – Hiking for Families, Kids und Pre-schools	Anne-Christine Elsner	Anne-Christine Elsner	Deutscher Wanderverband (DWV)
3	A CICES for Health: Linking ecosystem services and disease classes	Conor E. Kretsch	Conor E. Kretsch	COHAB Initiative Secretariat, Ireland
4	Ecology and biodiversity in cities under climate change – How students can be enabled to understand, evaluate and communicate adaption strategies	Lena Neumann <sup>1</sup> Alexander Siegmund <sup>1, 2</sup>	Lena Neumann	<sup>1</sup> Department of Geography – Research Group for Earth Observation (Geo), Heidelberg University of Education <sup>2</sup> Heidelberg Center for Environment (HCE) & Institute of Geography, Heidelberg University
SESSION 2 - Health and protected areas in a changing climate				
No	Titel	Author	Presenter	Affiliation
5	Strengthening human-nature nexus in the urban context Lessons from London	Arlinda Sheqiri	Arlinda Sheqiri	Politecnico di Milano
6	“Make me a willow cabin at your gate”: How works in protected areas connect people and improve well-being – Model System Estuarine Forest, Hamburg, GER	Heike Markus-Michalczyk	Heike Markus-Michalczyk	Royal Netherlands Institute for Sea Research, Estuarine and Delta Systems, NIOZ, NL
7	Potential health benefits of marine resources in a protected area: the example of Cape Creus (NW Mediterranean)	Josep Lloret	Josep Lloret	University of Girona, Institute of Aquatic Ecology, Campus Montilivi, 17003 Girona, Spain

SESSION 2 - Health and protected areas in a changing climate				
No	Titel	Author	Presenter	Affiliation
8	Use of an activity tracker to motivate engagement of inactive adults with health walks in a national park: a mixed-methods feasibility study	Katherine N Irvine <sup>1</sup> Alan Melrose <sup>2</sup> Sara L Warber <sup>3</sup>	Katherine N Irvine	<sup>1</sup> James Hutton Institute <sup>2</sup> Active Cairngorms Health Walks Coordinator <sup>3</sup> University of Michigan
9	ESIKOTO project, Finland: Health and well-being of asylum seekers through activation in nature-based activities	Saša Dolinšek Veikko Virkkunen	Veikko Virkkunen	Metsähallitus, Parks & Wildlife
SESSION 3 - Linking initiatives in biodiversity, health, and climate change action in policy and practice				
No	Titel	Author	Presenter	Affiliation
10	“Biodiversity and health”: an ambitious Austrian project brings it together	Kerstin Friesenbichler <sup>1</sup> Arne Arnberger <sup>2</sup> Piero Lercher <sup>3</sup> Hans-Peter Hutter <sup>4</sup>	Kerstin Friesenbichler	<sup>1</sup> Umweltdachverband <sup>2</sup> University of Natural Resources and Life Sciences, Vienna, Austria <sup>3</sup> Austrian Medical Chamber, Vienna; Medical University of Vienna, Austria <sup>4</sup> Medical University of Vienna, Austria; International Society of Doctors for the Environment - Austrian section
11	Implementing a One Health Approach in Transfrontier Conservation Areas Will Help Build Resilience to Climate Change	J. Garnier <sup>1</sup> C. Masterson <sup>2</sup> C. Stockil <sup>2</sup> R.A. KockR.A. <sup>3</sup>	Julie Garnier	<sup>1</sup> Odyssey Conservation Trust <sup>2</sup> C. Wild Programme <sup>3</sup> Royal Veterinary College
12	European OneHealth/EcoHealth Community of Practice	Hans Keune <sup>1,2,3</sup> Lucette Flandroy <sup>1,4</sup> Séverine Thys <sup>5</sup> Thierry van den Berg <sup>6</sup> Stefan Roels <sup>6</sup> Nick De Regge <sup>6</sup> Marcella Mori <sup>6</sup> Nicolas Antoine-Moussiaux <sup>7</sup> Maarten Vanhove <sup>8</sup> Javiera Rebolledo <sup>9</sup> Pierre Biot <sup>4</sup> Wim Hiemstra <sup>10</sup> Barbara Haesler <sup>11,12</sup> Aurélie Binot <sup>13</sup>	Hans Keune	<sup>1</sup> Belgian Community of Practice Biodiversity & Health (COPBH) <sup>2</sup> Belgian Biodiversity Platform <sup>3</sup> Research Institute Nature & Forest (INBO) - Belgium <sup>4</sup> Federal Public Service Public Health, DG Environment - Belgium <sup>5</sup> Institute of Tropical Medicine of Antwerp (ITM) - Belgium <sup>6</sup> Veterinary and Agrochemical Research Centre (CODA-CERVA) - Belgium <sup>7</sup> University of Liège, Faculty of Veterinary Medicine (ULg) - Belgium <sup>8</sup> Royal Belgian Institute of Natural Sciences (RBINS) (CEBIOS) - Belgium <sup>9</sup> Scientific Institute of Public Health (WIV-ISP) - Belgium <sup>10</sup> Dutch Farm Experience/Natural Livestock Farming - Netherlands <sup>11</sup> Royal Veterinary College – United Kingdom <sup>12</sup> Network for Evaluation of One Health (NEOH) – EU COST Action network <sup>13</sup> French agricultural research and international cooperation organization (CIRAD) - France

### SESSION 3 - Linking initiatives in biodiversity, health, and climate change action in policy and practice

No	Titel	Author	Presenter	Affiliation
13	The NAMED project	An Van Nieuwenhuyse	An Van Nieuwenhuyse	Scientific Institute of Public Health
14	Project 'Green light'. Connecting knowledge about nature-health linkages to primary health care practice.	Lieve Janssens Dirk Vandenbussche	Lieve Janssens	Agency for Sustainable Environment and Nature Policy
15	Initiatives of the State Health Office Baden-Württemberg (LGA), Germany	Snezana Jovanovic	Snezana Jovanovic	WHO-CC Housing and Health Landesgesundheitsamt Baden-Württemberg
16	#DokterBos #DoctorWoods - a SocialMedia campaign to raise awareness on the impact of nature, forest and green on public health and well-being (Flanders, Belgium) *RollUp*	Rik De Vreese	Katriina Kilpi	BOS+
17	Practical and accessible environmental education for all: a National priority in Estonia	Marika Kose <sup>1</sup> Maris Kivistik <sup>2</sup>	Maris Kivistik	<sup>1</sup> Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences, Department of Botany <sup>2</sup> Estonian Environmental Board
18	Urban Biodiversity in the Context of the UN Sustainable Development Goals (SDGs): The City of Bonn and its peri-urban area as a Case Study	Maximilian Weigend <sup>1</sup> Wolfram Freund <sup>1</sup> Jens Mutke <sup>1</sup> Sarah Jeanloz <sup>1</sup> Fabian Droppelmann <sup>1</sup> Wiltrud Terlau <sup>2</sup> Johannes Klement <sup>2</sup>	Wolfram Freund	<sup>1</sup> Nees Institute for Biodiversity of Plants, University of Bonn, Germany <sup>2</sup> International Centre for Sustainable Development, Bonn-Rhein-Sieg University of Applied Sciences, Germany
19	Using 'perspectives on nature' to find a common agenda for biodiversity, climate change and health	AG prins <sup>1</sup> I Bouwma <sup>2</sup> E dammers <sup>1</sup> H Farjon <sup>2</sup> R Pouwels <sup>2</sup> M Vonk <sup>1</sup>	Henk van Zeijts	<sup>1</sup> PBL Netherlands Environmental Assessment Agency <sup>2</sup> Wageningen University & Research
20	Nature Conservation and Health	Beate Job-Hoben Ulrike Hoffmann	Beate Job-Hoben	Federal Agency for Nature Conservation (BfN)

### SESSION 4 - The benefits of green space for enhancing human health - lessons learned from urban interventions

No	Titel	Author	Presenter	Affiliation
21	Estimating the access to urban green space on household level in German cities	Dennis Kalisch <sup>1</sup> Jens Kolbe <sup>2</sup> Henry Wüstemann <sup>1</sup>	Dennis Kalisch	Technische Universität Berlin, <sup>1</sup> Institute for Landscape Architecture and Environmental Planning, Landscape Economics <sup>2</sup> Institute for Economics and Business Law, Econometrics and Business Statistics
22	Nature-based solutions for health and well-being problems of the ageing urban population?	Jana Verboom <sup>1</sup> Sjerp de Vries <sup>1</sup> Joop van Hezik <sup>2</sup>	Jana Verboom	<sup>1</sup> Wageningen Environmental Research (Alterra) <sup>2</sup> Nature Assisted Health Foundation

**SESSION 5 - Psychological effects of nature and biodiversity on human health and well-being**

No	Titel	Author	Presenter	Affiliation
23	Effects of tree characteristics diversity on psychological restoration	Tina Gerstenberg <sup>1,2</sup> Mathias Hofmann <sup>1,3</sup>	Tina Gerstenberg	<sup>1</sup> Centre for Research in Technological Development, Dresden, Germany <sup>2</sup> Forest Research Institute Baden Württemberg, Department Forest and Society <sup>3</sup> Swiss Federal Institute for Forest, Snow and Landscape Research WSL
24	Child Mental Wellbeing, Child Environmental Attitudes and Biodiversity	Athina Georgiou Shippi	Athina Georgiou Shippi	PhD candidate in Landscape Architecture University of Edinburgh
25	Subjective perception of pollution and noise exposure in relation to urban green space availability	Karolina Koprowska Edyta Laszkiewicz	Karolina Koprowska	Faculty of Economics and Sociology, University of Lodz
26	The impact of wetlands on mental well-being – a case study from Uganda	Sophie-Bo Heinkel Andrea Rechenburg Thomas Kistemann	Sophie-Bo Heinkel	GeoHealth Centre, Institute for Hygiene and Public Health, University of Bonn
27	The benefits of urban medicinal gardens for human health	Vitalija Povilaityte-Petri Pierre Duez	Vitalija Povilaityte-Petri	Department of Therapeutic Chemistry and Pharmacognosy, University of Mons
28	Introduced Medicinal (aromatic) Plant Diversity Enhancement and Research Value to Human Lifestyle in Lithuania	Ona Ragažinskienė <sup>1</sup> Lina-Danutė Zutkienė <sup>2</sup>	Ona Ragažinskienė	<sup>1</sup> Vytautas Magnus University Kaunas Botanical Garden <sup>2</sup> Vytautas Magnus University Institute of Foreign Languages
29	Green Learning Environments for Children with Learning Disabilities	Rik De Vreese <sup>1</sup> Katriina Kilpi <sup>2</sup> Ursa Vilhar <sup>3</sup> Paul Nolan <sup>4</sup>	Katriina Kilpi	<sup>1</sup> BOS+ <sup>2</sup> NatureMinded <sup>3</sup> GOZDIS <sup>4</sup> Mersey Forest

**SESSION 6 - Allergenic plants and vector borne diseases – relevance to human health in a changing climate**

No	Titel	Author	Presenter	Affiliation
30	Leptospirosis and climate change	Josipa Habus <sup>1</sup> Zdenka Persic <sup>2</sup> Silvijo Vince <sup>3</sup> Marko Vucelja <sup>4</sup> Zrinka Stritof <sup>1</sup> Vesna Mojcec <sup>1</sup> Zoran Milas <sup>1</sup> Josip Margaletic <sup>4</sup> Nenad Turk <sup>1</sup>	Josipa Habus	<sup>1</sup> National Reference Laboratory for leptospirosis (NRL), Department of Microbiology and Infectious disease with Clinic, Faculty of Veterinary Medicine, University of Zagreb <sup>2</sup> Croatian National Reference Laboratory for human leptospirosis, Croatian Institute of Public Health <sup>3</sup> Reproduction and obstetric Clinic, Faculty of Veterinary Medicine, University of Zagreb <sup>4</sup> Faculty of Forestry, University of Zagreb, Zagreb, Croatia
31	Long-term dynamics of rodent species relevant to human health: Impact of climate, land-use and biodiversity	C. Imholt <sup>1</sup> K. Jeske <sup>2</sup> A. Geduhn <sup>3</sup> E. Schmolz <sup>3</sup> R.G. Ulrich <sup>2</sup> J. Jacob <sup>1</sup>	Christian Imholt	<sup>1</sup> Julius Kuehn-Institut, Federal Research Institute for Cultivated Plants, Münster, Germany <sup>2</sup> Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Greifswald-Insel Riems, Germany <sup>3</sup> German Environment Agency, Berlin, Germany

SESSION 6 - Allergenic plants and vector borne diseases – relevance to human health in a changing climate				
No	Titel	Author	Presenter	Affiliation
32	Modeling Spatial of Environmental Factors uses Geographically Weighted Regression: The Incidence of Malaria in South Sumatra Indonesia	Hamzah Hasyim <sup>1,2</sup> A. Nursafingi <sup>3</sup> Meghnath Dhimal <sup>2,4</sup> Jan Bauer <sup>2</sup> Doreen Montag <sup>5</sup> David A. Groneberg <sup>2</sup> Ulrich Kuch <sup>2*</sup> Ruth Müller <sup>2*</sup>		<sup>1</sup> Faculty of Public Health, Sriwijaya University, South Sumatra Province, Indonesia <sup>2</sup> Institute of Occupational Medicine, Social Medicine and Environmental Medicine, Goethe University, Frankfurt am Main, Germany <sup>3</sup> Remote Sensing Program, Faculty of Geography, Universitas Gadjah Mada, Yogyakarta, Indonesia <sup>4</sup> Nepal Health Research Council (NHRC), Ramshah Path, Kathmandu, Nepal <sup>5</sup> Barts and the London School of Medicine, Centre for Primary Care and Public Health, Queen Mary University of London, London, UK * These authors act as equivalent co-senior authors
33	Ragweed allergy in Leipzig	R. Treudler <sup>1,2</sup> F. Walther <sup>1</sup> J. Wobser <sup>1</sup> J.C. Simon <sup>1,2</sup>	Regina Treudler	<sup>1</sup> Department of Dermatology, Venerology and Allergology <sup>2</sup> Comprehensive Allergy Centre – LICA, Universitätsmedizin Leipzig, Germany
34	Modelling the risk of autochthonous disease transmissions by Aedes albopictus in Germany using fine-resolution climate data	Stephanie Thomas	Stephanie Thomas	University of Bayreuth
SESSION 7 - Nature-based solutions for climate change adaptation and their role in fostering health and socio-environmental equity				
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35	The Heat Health Warning System in Germany - Application and Lessons learned	Andreas Matzarakis	Andreas Matzarakis	Research Center Human Biometeorology, German Meteorological Service
36	INHERIT your future: changing lifestyles and behaviours in the areas of living, moving and consuming, to protect the environment and improve health for all	Ingrid Stegeman Monica Aberg Yngwe Caroline Costongs	Ingrid Stegeman	EuroHealthNet
37	MedMossRoofs: Biocrust moss-dominated green roofs for a changing climate	R. Cruz de Carvalho <sup>1</sup> A.C. Luz <sup>1</sup> , J. Vieira <sup>1</sup> P. Pinho <sup>1,2</sup> , F. Alves <sup>1</sup> C. Garcia <sup>1</sup> L. Concostrina-Zubiri <sup>1</sup> L. Luis <sup>1</sup> , P. Santos <sup>1</sup> P. Palha <sup>3</sup> , T. A. Paço <sup>4</sup> S. Milliken <sup>5</sup> C. Branquinho <sup>1</sup> B. Kotzen <sup>5</sup>	Ricardo Cruz de Carvalho	<sup>1</sup> Centro de Ecologia, Evolução e Alterações Ambientais, Faculdade de Ciências, Universidade de Lisboa <sup>2</sup> Centro de Recursos Naturais e Ambiente, Instituto Superior Técnico, Universidade de Lisboa <sup>3</sup> Neoturf – Construção e Manutenção de Espaços Verdes Lda., <sup>4</sup> LEAF, Instituto Superior de Agronomia, Universidade de Lisboa, <sup>5</sup> Faculty of Architecture, Computing & Humanities, University of Greenwich, Old Royal Naval College

SESSION 7 - Nature-based solutions for climate change adaptation and their role in fostering health and socio-environmental equity				
No	Titel	Author	Presenter	Affiliation
38	Boosting our power to detect vulnerability to high temperatures	Agustín Camacho Guerrero	Agustín Camacho Guerrero	Laboratório de Herpetologia, Departamento de Zoologia, Instituto de Biociências, USP
39	THE LIFE PROGRAMME & Adaption to Climate Change	Panos Fetsis	Panos Fetsis	LIFE Programme
SESSION 8 - Planning and managing urban green spaces for health and biodiversity in a changing climate				
No	Titel	Author	Presenter	Affiliation
40	Impacts of heat waves on health in Moscow and implications for the city green space development	N. E. Terentev b. A. Revich	Nikolai Terentev	Institute of Economic Forecasting, Russian Academy of Sciences, Moscow, Russia
41	ArboCityNet – A cross-sectoral and transdisciplinary Swiss Urban Forestry Network	Bianca Baerlocher <sup>1</sup> Michael Schulze <sup>2</sup> Eric Amos <sup>3</sup> Christian Betti <sup>3</sup> Roberto Bolgè <sup>4</sup> Clémence Dirac <sup>4</sup> Andrea Finger-Stich <sup>5</sup> Tessa Hegetschweiler <sup>6</sup> Axel Heinrich <sup>7</sup> Jervlee Wilkes <sup>8</sup>	Bianca Baerlocher	<sup>1</sup> HAFL, Bern <sup>2</sup> HRS, Rapperswil <sup>3</sup> Plante et Cité, Genève <sup>4</sup> FOEN, Bern <sup>5</sup> HEPIA, Genève <sup>6</sup> WSL, Birmensdorf <sup>7</sup> ZHAW, Zurich <sup>8</sup> ETH Zurich
42	Quantification of the effect of green spaces on heat stress – Application of micro scale models	Andreas Matzarakis Dominik Fröhlich Marcel Gangwisch	Andreas Matzarakis	Research Center Human Biometeorology, German Weather Service
43	What about Ourselves? Health as an Argument in climate-related Discussions on City Planning in Baden-Württemberg	Anja Kries Rainer Luick Heidi Megerle	Anja Kries	Hochschule für Forstwirtschaft Rottenburg
44	Combining ecological and life cycle assessment of urban projects, a way to support biodiversity conservation and climate change reduction	Aline Brachet <sup>1,2</sup> Nicoleta Schiopu <sup>1</sup> Philippe Clergeau <sup>2</sup>	Aline Brachet	<sup>1</sup> Université Paris Est, Centre Scientifique et Technique du Bâtiment, Grenoble <sup>2</sup> Museum National d'Histoire Naturelle, Paris
45	Health related effects of urban greenspaces and forests in Bavaria	Joachim Rathmann	Joachim Rathmann	Institut für Geographie und Geologie Julius-Maximilians-Universität Würzburg
46	“Re-activating landscape in peri urban areas - Quinta do Pisão I Nature Park - A landscapescale conservation project that links wildlife and people.”	João Cardoso de Melo	João Cardoso de Melo	Cascais Ambiente
47	Health Co-benefits from reducing indoor air pollution in Pune, India	Rasmila Kawan <sup>1</sup> Sudipto Roy <sup>2</sup> Gufran Beig <sup>3</sup> Rainer Sauerborn <sup>1</sup>	Rasmila Kawan	<sup>1</sup> Institute of Public health, Heidelberg University <sup>2</sup> Health Research Center, Pune, India <sup>3</sup> Indian Institute of Tropical Meteorology, India