

Curriculum Vitae

Rainer Willi Bussmann
Director William L. Brown Center
William L. Brown Curator for Economic Botany

Missouri Botanical Garden
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Academic Training

1994 Ph.D. (Dr. rer. nat.), University of Bayreuth, Germany, Magna Cum Laude
1993 M.Sc. Biology (Dipl.-Biol), University of Tübingen, Germany
1991-92 Study abroad, Temple University, Philadelphia, USA
1990 Study abroad, University of Nairobi, Kenya

Scholarships

Habilitation Stipend, German Science Foundation (DFG), 1999-2002
Post-Doc Stipend, Research Program "Mechanisms for the maintenance of tropical diversity," German Science Foundation (DFG) 1994-1995
Ph.D. Scholarship, Research Program "Mechanisms for the maintenance of tropical diversity," German Science Foundation (DFG) 1993-94
M.S. Scholarship, Research Program "Mechanisms for the maintenance of tropical diversity," German Science Foundation (DFG) 1992-93

Areas of Interest

Ethnobotany / Economic Botany
Plant Ecology and Regeneration Ecology
Systematics (Plukenetieae, Merianieae)
Seed and Germination Ecology
Natural Resource Management
International law in relation to Intellectual Property Rights, Ecology and Environment

Current Projects

Medicinal plants and climate change: Biodiversity, systematics, ecology and use-potential of high altitude species in the Andes, Himalaya and Caucasus ranges.
Vegetation, regeneration and succession processes, use-potential and conservation of tropical mountain forests in Peru and Bolivia
Montane forest ecosystems in Southern Ethiopia - Biodiversity in the interface of human use, wildlife conservation and climate change.
Phylogeny and sustainable use of a tropical plant resource: The example of Arecaceae in the Andes, Madagascar and Southeast Asia
International Ethnobotany Database (ebDB)

Positions held

- 2007-present **Director William L. Brown Center for Plant Genetic Resources and William L. Brown Curator for Economic Botany**, Missouri Botanical Garden
- 2006-2007 **Research Fellow**, The University of Texas at Austin
- 2003-2006 **Associate Professor of Botany and Scientific Director Lyon Arboretum**, University of Hawaii
- 1997-2002 **Assistant Professor**, University of Bayreuth, Germany
- 1992-1996 **PhD student / Post-doc**, University of Bayreuth, Germany
- 1988-1991 **Teaching Assistant**, University of Tübingen, Germany

Adjunct and Associate Appointments

- 2008-present **Honorary Adjunct Professor**, Washington University St. Louis
Honorary Adjunct Professor, University of Missouri, St. Louis
- 2003-2009 **Adjunct Professor**, University of Hawai'i at Manoa, Honolulu
- 2005-2006 **Visiting Scholar**, The University of Texas at Austin

Professional Activities

- 1997-2010 **Vice President and Scientific Director**, Nature and Culture International, Del Mar, CA
- 1996-present **Professor Minority Research and Training Program Peru and Advisor**, International Center of Phytomedicine, San Diego State University, San Diego, CA
- 1995-present **Research Associate**, San Diego Museum of Man (San Diego, CA)
- 2001-2004 **Project Director**, Regeneration and Ethnobotany of Kakamega and Mt. Kenya Forests, and Development of Maseno University Botanical Garden, Kenya
- 1997-2004 **Project Director**, Vegetation, Regeneration Ecology and Use Potential of Tropical Mountain Forests in Southern Ecuador
- 1997-1999 **Program Coordinator**, Ecology of Disturbed and Undisturbed Tropical Mountain Forests, Ecuador
- 1996 **Expedition Director**, Vilcabamba und Cordillera de Sabanilla y Tzunantza Rapid Assessment Expedition, Ecuador
- 1992-1996 **Project Leader**, Mountain Forests of East Africa – Vegetation, Regeneration and Management, Kenya and Ethiopia
- 1990-1992 **Conservation Director**, German Mountain Club, Leutkirch Chapter
- 1985-1992 **Chair**, Natural Science working group, Adult College Leutkirch, Germany
- 1983-1992 **Field Botanist**, flora and habitat mapping program, Federal State Baden-Wuerttemberg, Germany

Military Service

- 1986-1987 1. German Mountain Division – 81. Mountain Artillery Battalion

Grant support

- 2011** National Center for Natural Product Research FDA natural products research (Co-PI, \$ 272,000)
NOVUS Ethnoveterinary discovery (\$ 20,000)
Semomyx Inc. - North America plant collection (\$ 80,000)
Sensient Inc. - Natural Dye discovery program (\$ 50,000)
NIH-MHIRT Minority Health Disparity Research and Training Grant Peru 2011 (through San Diego State University, Bob Pozos PI, \$ 60,000)
New Chapter Organics support for “Sacred Seed Program” (\$ 55,000)
National Center for Natural Product Research Plant collection contract (\$60,000)
- 2010** Global high mountain ecosystem function, climate change and human health (Co-PI, National Science Foundation, pending, \$ 3,000,000)
Missouri Life Science Award (Co-PI, \$ 300,000, funds currently blocked by Governor due to budget shortage)
Sensient Inc. - Natural Dye discovery program (\$ 50,000)
Semomyx Inc. - North America plant collection (\$ 74,000)
NIH-MHIRT Minority Health Disparity Research and Training Grant Peru 2008 (through San Diego State University, Bob Pozos PI, \$ 65,000)
New Chapter Organics support for “Sacred Seed Program” (\$ 41,000)
National Center for Natural Product Research Plant collection contract (\$60,000)
New Chapter Organics Support for participation in Third Alan G. Johnson Memorial Conference on Ethnomedicine, Health and Environmental Conservation. Costa Rica (\$ 3,000).
- 2009** Sehgal Family Foundation: Committed \$ 400,000 to endow new curatorship of Medicinal Botany.
Semomyx Inc. - North America plant collection and consulting contract (\$ 80,000)
NSF-DBI, “Open Science – an education network in ethnobiology” (Co-PI, \$ 368,173)
NIH-MHIRT Minority Health Disparity Research and Training Grant Peru 2009 (through San Diego State University, Bob Pozos PI, \$ 35,000)
New Chapter Organics support for “Sacred Seed Program” (\$ 12,500)
National Center for Natural Product Research Plant collection contract (\$60,000)
Alice H. Brown Memorial donation (\$5,000)
Alice H. Brown estate to support William. L. Brown Center (\$ 35,000)
New Chapter Organics Support for participation in Third Alan G. Johnson Memorial Conference on Ethnomedicine, Health and Environmental Conservation. Costa Rica (\$ 3,000)
National Center for Biological Science grant for participation in “Indian Traditional Knowledge – History, Influences and New Directions for Natural Science,” Bangalore, India (\$ 2,000)
- 2008** Sequoia Sciences support for William L. Brown Symposium “Ethnobotany – Linking Biology and Traditional Knowledge” (PI, \$ 10,000)

- National Center for Natural Product Research Plant collection contract (\$60,000)
- Edward Mallinckrodt Jr. Foundation support for William L. Brown Symposium "Ethnobotany – Linking Biology and Traditional Knowledge" (PI, \$ 15,000)
- Semomyx Inc. - North America plant collection contract (\$ 10,000)
- NIH-MHIRT Minority Health Disparity Research and Training Grant Peru 2008 (through San Diego State University, Bob Pozos PI, \$ 40,000)
- New Chapter Organics Support for participation in Third Alan G. Johnson Memorial Conference on Ethnomedicine, Health and Environmental Conservation. Costa Rica (\$ 2,000).
- 2007** NIH-MHIRT Minority Health Disparity Research and Training Grant Peru 2008 (through San Diego State University, Bob Pozos PI, \$ 40,000)
- 2005** Gordon and Betty Moore Foundation Research and Conservation Grant „Parque Nacional Rio Abiseo, Reserva Comunal Cordillera Colan, Reserva Alto Mayo, Peru“ (Co-PI, Nature and Culture International, \$1,780,000)
- NIH-MIRT Minority Research and Training Grant Peru 2005 (through San Diego State University, Bob Pozos PI, \$ 20,000)
- 2004** USDA-T-STAR Grant "Controlling Invasive Species through the Use of Native Plant Agroforestry Systems" (Co-PI, \$ 114,500)
- NIH-MIRT Minority Research and Training Grant Peru 2004 (through San Diego State University, Bob Pozos PI, \$ 30,000)
- 2003** NIH-MIRT Minority Research and Training Grant Peru 2003 (through San Diego State University, Bob Pozos PI, \$ 30,000)
- 2002** German Science Foundation Grant "Vegetation and Ecology of Southern Ecuadorian Mountain Forests" (PI, \$50,000)
- University of Hawaii Start-up Funds (PI, \$100,000)
- NIH-MIRT Minority Research and Training Grant Peru 2002 (through San Diego State University, Bob Pozos PI, \$ 30,000)
- 2000** BMBF (German Ministry for Education and Research) "Vegetation, Ecology and Use of Kakamega Forest, Kenya," and Establishment of Maseno Botanical Garden (PI, \$350,000)
- Equipment for Kakamega Research Project, Kenya (PI, Nature and Culture International, \$10,000)
- Co-Initiation of Program "Biota-East" of the Biodiversity Monitoring Transect Analysis in Africa of German Ministry for Education and Research (Total funding \$6,000,000)
- 1999** DFG (German Science Foundation) Habilitation Stipend "Vegetation and Ecology of Southern Ecuadorian Mountain Forests", (PI, \$100,000)
- 1997** DFG (German Science Foundation) Postdoctoral Grant "Vegetation and Ecology of Southern Ecuadorian Mountain Forests", (PI, \$100,000)
- Co-Initiation of the Research Program "Functionality of a Tropical Mountain Forest in South Ecuador - Diversity, Dynamic Processes and Use Potential" of German Science Foundation (Funding \$4,500,000 from 1997-2001, since 2001 funding upgraded to \$ 2,500,000/year until 2012)
- 1996** Grant for Establishment of Estacion Cientifica San Francisco, Ecuador (PI, Nature and Culture International, \$500,000)
- 1995** Rapid Assessment Expedition Southern Ecuador (PI, Private, \$20,000)

Expedition Grant "Ethnobotany of Southern Ecuador" (PI, Private, \$10,000)

1993 DFG (German Science Foundation) Ph.D. and Postdoctoral Grant "Vegetation and Ecology of East African Mountain Forests" (PI, \$100,000)

1992 DFG (German Science Foundation) M.S. Grant "Vegetation and Ecology of East African Mountain Forests" (\$ 25,000)

Graduate students - Advisor or committee member

Doctoral Dissertations

- Rakotoarivelo, N.H.** Inventory of useful and multiple use plants, in particular woody species at Vohibe forest, Ambalabe, Vatomandry and their extinction risk assessment.
- Randrianarivony, T.** Ethnic value of vegetail ressources in the surroundings and in the sacred forest of Analavelona, a new protected area in Southwest Madagascar.
- Kunwar, R.** Diversity and indigenous use of plant resources in West Nepal.
- Lozano, P.** Vegetation and regeneration of natural landslides in the montane forests of Southern Ecuador, 2011.
- Souto, T.** Ethnoecology and forest dependency level of four indigenous and non-indigenous communities in the Lower Caura River, Venezuela. 2009.
- Njoroje, G.** Land use and use of forest resources, particularly medicinal plants, in the Mount Kenya region, Kenya. 2004.
- Ochieng Nyunja R.** Land use and use of forest resources, particularly medicinal plants, in the Kakamega region, Kenya. 2004.
- Fonge, B.** Vegetation recovery on lava flows of different successional age on Mt. Cameroon, Cameroon. 2004.

Masters Theses

- Monigatti, M.** Ethnobotany in the Northern Peruvian Andes, 2011.
- Rabearivony, D.A.N.** Medicinal plants used by men at Ambalabe-Vatomandry – Health implications, regeneration and conservation status, 2011.
- Raveloson, T.F.** Ethnobotanical studies and ecological status assessment of some medicinal species used by female healers and women at Ambalabe-Vatomandry, 2011.
- Ratsaralaza, H.L.N.** The most frequently used medicinal plants of the new protected area of Agnalazaha (Mahabo, Mananivo, Fargangana. Ethnobotanical and ecological studies for conservation strategy, 2011.
- Razafindraibe, N.M.** Medicinal plants used by women in Agnalazaha littoral forest and its surroundings: Ethnobotany and conservation ecology, 2011.
- Randriamiharisoa, T.N.M.** Ethnobotanical study and status assessment of some medicinal plants of Analamanga Region, 2011.
- Fraiola, H.K.** Documenting recovery: An assessment of regeneration and selected management actions in the Waianae Kai Forest Reserve after a wild-fire, 2005.
- Lozano, D.F. & Sarango, S.P.** Vegetacion Pionera de los Derrumbos de la Franja Occidental del Parque Nacional Podocarpus, 2005.
- Uday, V.** Distribución Florística del bosque de neblina montano en la Reserva Tapichalaca, Cantón Palanda. – Floristic distribution in two plots in the cloud forest of Reserva Tapichalaca, Canton Palanda; 2003.
- Werner, F.** Epiphytenzonierung im Höhengradienten der montanen Bergwälder der Estación Científica San Francisco, Ecuador - Epiphyte zonation in the altitudinal gradient of the mountain forests of Estación Científica San Francisco; 2002.

- Homann, P.** Vegetation communities of the upper montane forest in Estación Científica San Francisco, Ecuador; 2001.
- Torracchi, S.C. & Escobedo V., R.** Estado de conservación del bosque y su influencia en la diversidad alfa de briófitas en la Estación Científica San Francisco - Conservation status of forest and its influence on Alpha-Diversity of Bryophytes in Estación Científica San Francisco; 2001.
- Leischner, B.** Holznutzung und Holzmarkt in den Provinzen Loja und Zamora-Chinchipec, Süd-Ecuador - Timber use and timber market in the provinces of Loja and Zamora-Chinchipec, South Ecuador; 2000.
- Gálvez, J.R.** Estudio florístico y dasométrico del bosque tropical de montaña no perturbado de la Estación Científica San Francisco - Floristic and dasiometric study of the undisturbed tropical mountain forests of Estación Científica San Francisco; 2000.
- Ordoñez, O.R.** Estudio dasométrico y composición florística y regeneración natural del bosque alterado de montaña de la Estación Científica San Francisco - Dasiometric study and floristic study of the disturbed tropical mountain forests of Estación Científica San Francisco; 2000.
- Ohi, C.** Vegetation on natural landslides in the tropical mountain forest of southern Ecuador, with special consideration of the altitudinal gradient. 2000.
- Alvarado, R.P.** Levantamiento de la cubierta vegetal en la Reserva Biológica de la Estación Científica San Francisco y diagnóstico socio-económico del área de influencia - Vegetation cover in the Biological Reserve of Estación Científica San Francisco and socio-economic profile of its area of influence; 1999.

External Thesis Advisor

2009-present Madurai Mamaraj University, Madurai, India
2009-present St. Xavier's College, Palayamkottai, India;
2009-present Manonmaniam Sundaranar University, Tirunelveli, India
2002-2006 University of Buea, Cameroon
2002-2005 Kenyatta University, Nairobi, Kenya
2000-2005 Maseno University, Maseno, Kenya
1997-2005 Universidad Nacional Loja, Ecuador

Teaching Experience

Medicinal Botany (Lecture/Seminar, Washington University St. Louis)
Economic Botany (Seminar, Washington University St. Louis)
Biodiversity Conservation (Seminar, University of Texas at Austin)
Ethnobotany and Tropical Plant Ecology (Field Class in Northern Peru, UC Berkeley)
Vegetation Community Ecology (Lecture/Seminar, Field Class, Universität Bayreuth)
Ethnobotany / Economic Botany (Lecture/Seminar, Universität Bayreuth)
Vegetation and Ecology of Tropical and Temperate High Mountain Systems (Seminar, Universität Bayreuth)
Arctic and Alpine Plant Communities: Vegetation, Ecology and Physiology (Seminar, Universität Bayreuth)
Conservation, Management and Sustainable Use of Natural Resources (Lecture/Seminar, Emory University)
International Law, Biodiversity Convention and Intellectual Property Rights (Lecture/Seminar, Emory University)
Introductory Botany, Plant Morphology and Anatomy (Lecture, Universität Bayreuth)

Mentoring Activities

NIH-MHIRT Peru (Minority Health Disparity Research Training 2002-2011)
Planting Science (2009-2010)
Washington University SURF (Summer Undergraduate Research Fellowship 2009-)

Review and Editorial Activities

Grant Reviews

National Institutes of Health –International Cooperative Biodiversity Groups (2008-)
Commission of the European Union, 5th, 6th and 7th Framework Program Biodiversity and Global Change (2000-)
Missouri Life Science Research Fund (2009-)
National Geographic Society (2009-)
Czech Academy of Science (2005-)
Gesellschaft fuer Technische Zusammenarbeit – German Development Agency (1998-)
Swiss National Science Foundation (2005-)
South African Science Council (2008-)
Volkswagen Foundation (1999-)

Editorial Activities

Editor in-Chief Lyonia (2003-2006)
Editor Ethnobotany Research and Application (2008-)
Deputy Editor Ethnobiology and Ethnomedicine (2009-)
Associate Editor Ethnobiology and Ethnomedicine (2004-2009)
 International Journal of Ecology & Development (2006-)

Reviewer for International Scientific Journals

Arnaldoa, African Journal of Biotechnology, African Journal of Pharmacy and Pharmacology, African Journal of Plant Science, Biodiversitas; Biomass and Bioenergy, BMC Complementary and Alternative Medicine, Caspian Journal of Environmental Sciences, Caribbean Journal of Science, Conservation and Society, Geoderma, Eco Health, Ecologia en Bolivia, Economic Botany, Ecotropica, Environmental Management Review, Environmental Monitoring and Assessment, Ethnobotany Research and Applications, Forest Ecology and Management, Forestry Studies in China, Ghana Journal of Forestry, Herbalgram, International Journal of Sociology and Anthropology, Israel Botanical Journal, Journal of Biogeography, Journal of East African Natural History, Journal of Ethnobiology, Journal of Ethnobiology and Ethnomedicine, Journal of Ethnopharmacology, Journal of Epithelial Biology & Pharmacology, Journal of Horticulture and Forestry, Journal of Tropical Forest Science, Ethnobotany Research and Application, Mountain Research and Development, Pharmaceutical Biology, Phytochemistry, Plant Ecology, Plant Ecology and Evolution, Restoration Ecology, Sinet – Ethiopian Journal of Science, Trees, Vegetation Ecology

Language Proficiency

English: Fluent (reading, writing, speaking)
Spanish: Fluent (reading, writing, speaking)
French: Intermediate (reading) Elementary (writing), Elementary (speaking)
German: Native
Latin seven years studied

Service to professional Societies

Society of Economic Botany: President (2011-2012), Council Member (2008-); Schultes Award Committee Member (2008-2009)

International Society for Ethnopharmacology: Board Member (2010-)

Society of Ethnobiology: Board Member (2008-2011)

Botanical Society of America – Council Member, Chair Economic Botany Section (2008-2011)

Garden Clubs of America – Chatham Award Committee Member (2007-2010)

International Society of Ethnobiology: Secretary (2010); Student Award Committee Member (2010); Member Ethics Toolkit Committee (2008-2009)

Professional Memberships

AETFAT (Association for the Taxonomic Study of the Flora of Africa), Association of Tropical Biology and Conservation, Botanical Society of America, Bavarian Botanical Society, East Africa Natural History Society, Funbotanica (Ecuadorian Botanical Society), German Society for Tropical Ecology (GTOE), Global Mountain Biodiversity Assessment (GMBA), Gloria (Global Observation Research Initiative in Alpine Environments), International Society for Ethnobiology, International Society for Ethnopharmacology, Society for Conservation Biology, Society for Economic Botany, Society for Ethnobiology

Professional Presentations

Conference Presentations and Public Lectures: Over 250 worldwide

TV Documentaries About Own Research:

2001 “Humboldt’s Heirs – The Valley of Longevity,” Ecuador, ZDF – Public German Television

2002 “Valley of Longevity,” Ecuador, ARD – Public German Television

Congress organization

Botany 2011 – Joint annual meeting of the Society for Economic Botany, Botanical Society of America, American Society of Plant taxonomists, American Fern Society, and IIIrd William L. Brown Symposium, St. Louis, MO, July 9-13, 2011.

IInd William L. Brown Symposium, St. Louis, MO, November 7-8, 2008.

47th IAVS (International Association for Vegetation Science) Congress, Hawaii, July 18-23, 2004: Member of organizing committee

2nd Congress of Biodiversity in the Andes and Amazon Basin and IV. Ecuadorian Botanical Congress, Loja, Ecuador, August 25–30 2003: Member of organizing committee, keynote speaker

1st International Congress on Conservation of Biodiversity in the Andes and the Amazon Basin, Cusco, Peru, September 24-28, 2001: Conference organizer and president

Fieldwork and Research Experience

Collection of over 20,000 numbers and field research in over 40 countries and territories: Argentina, Austria, Belgium, Brazil, Bolivia, Bosnia-Herzegovina, Colombia, Costa Rica, Croatia, Czech Republic, Cyprus, Ecuador, Ethiopia, France, French-Polynesia, Georgia, Germany, Greece, Hawai'i, Hungary, India, Iran, Kenya, Kyrgyzstan, Madagascar, Macedonia, Mexico, Nepal, Netherlands, Peru, Russia, Serbia, Slovenia, South Africa, Sri Lanka, Sweden, Switzerland, Tanzania, Thailand, Turkey, UAE, United States (20 States), Viet Nam.

- 2011 Bolivia – December (Ethnobotany)
- 2011 Peru – October (Ethnobotany)
- 2011 Colombia, Peru – August (Ethnobotany)
- 2011 Peru – May (Floristics)
- 2011 Peru, Bolivia – March (Ethnobotany)
- 2011 Madagascar – February (Ethnobotany)
- 2011 Bolivia – January (Ethnobotany)
- 2010 Peru - December (Ethnobotany)
- 2010 Bolivia – October (Ethnobotany)
- 2010 Peru – June-July (Ethnobotany, Floristics)
- 2010 Madagascar – April (Ethnobotany, Floristics)
- 2010 Costa Rica – February (Ethnobotany, Floristics)
- 2009 Ethiopia – December (Ethnobotany, Floristics, Vegetation Ecology)
- 2009 Georgia – December (Ethnobotany)
- 2009 Bolivia, Ecuador – October-November (Ethnobotany, Floristics)
- 2009 Peru – June-July (Ethnobotany, Floristics)
- 2009 Costa Rica – May (Ethnobotany, Floristics)
- 2009 India – February-March (Ethnobotany)
- 2008 Viet Nam – September-October (Ethnobotany, Floristics)
- 2008 Peru – June-July (Ethnobotany, Floristics)
- 2008 Madagascar – August-September (Ethnobotany, Floristics)
- 2007 Peru – June-August (Ethnobotany, Floristics)
- 2006 Peru – July (Ethnobotany, Floristics)
- 2006 Ecuador – September (Vegetation Ecology, Floristics)
- 2005 Peru – August (Ethnobotany, Floristics)
- 2005 Ecuador – August and November (Vegetation Ecology, Floristics)
- 2004 Thailand – November (Ethnobotany, Floristics)
- 2004 Sri Lanka – November (Ethnobotany, Floristics)
- 2004 Spain – September (Floristics)
- 2004 Peru – April and July (Ethnobotany, Floristics)
- 2004 Iran – October (Ethnobotany, Floristics)
- 2004 India – October-November (Ethnobotany)
- 2004 French Polynesia – April (Ethnobotany, Floristics)
- 2003 Peru – August (Ethnobotany, Floristics)
- 2003 Ecuador – August (Vegetation Ecology, Floristics)
- 2002 Kenya – October-November (Ethnobotany, Floristics)
- 2002 Kenya – March (Ethnobotany, Floristics)
- 2002 Ecuador – June-July and October
- 2001 Spain – May-June (Vegetation Ecology, Floristics)
- 2000 Peru – August-October (Ethnobotany, Floristics)
- 2000 Peru – April-May (Ethnobotany, Floristics)
- 2000 Mexico – February (Ethnobotany, Floristics)
- 2000 Kyrgyzstan – August (Ethnobotany, Floristics)
- 2000 Ecuador – May, August and October
- 2000 Bolivia – May (Vegetation Ecology, Floristics)
- 1999 Peru – September (Ethnobotany, Floristics)
- 1999 Ecuador – April, July and October (Vegetation Ecology, Floristics)
- 1998 Spain – February-March (Vegetation Ecology, Floristics)
- 1998 Ecuador – January, July and October (Vegetation Ecology, Floristics)
- 1997 Spain – May-June (Vegetation Ecology, Floristics)

1997 Ecuador – March-July and September-December (Vegetation Ecology, Floristics)
1996 Spain – May-June (Vegetation Ecology, Floristics)
1996 Mexico – December (Vegetation Ecology, Floristics)
1996 Kenya – July (Vegetation Ecology, Floristics)
1996 France – May (Vegetation Ecology, Floristics)
1996 Ethiopia – February (Vegetation Ecology, Floristics)
1996 Ecuador – September-November (Vegetation Ecology, Floristics)
1995 Kenya – April-July (Vegetation Ecology, Floristics)
1995 Ethiopia – November (Vegetation Ecology, Floristics)
1995 Ethiopia – March (Vegetation Ecology, Floristics)
1995 Ecuador – September (Ethnobotany, Floristics)
1994 Tanzania – August (Vegetation Ecology, Floristics)
1994 Kenya – January-August (Vegetation Ecology, Floristics)
1993 Kenya – February-July and November-December (Vegetation Ecology, Floristics)
1992 Kenya – February-July (Vegetation Ecology, Floristics)
1991 Sweden – July (Floristics)
1991 Ecuador – February-April (Floristics)
1990 Turkey – July (Floristics)
1990 Sweden – August-September (Floristics)
1990 Kenya – February-April (Floristics)
1990 France (Bretagne) – November (Floristics of Algae)
1989 Kenya – February-April (Floristics)
1987 Greece – February-April (Floristics)
1985 Cyprus – March-April (Floristics)

Publications

PAPERS and BOOK CHAPTERS

1. **Bussmann, R.W.** (in press). East African plant use – differences in plant use between nomadic and agricultural societies. *Plant Ecology and Evolution*.
2. **Bussmann, R.W.** & Glenn, A. (in press). Traditional knowledge for modern ailments – plants used for the treatment of diabetes and cancer in Northern Peru. *Journal of Medicinal Plant Research*.
3. **Bussmann, R.W.** & Glenn, A. (in press). Traditional medicinal plants used in Northern Peru for kidney problems and urinary infections. *Arnaldoa* 18(2) .
4. **Bussmann, R.W.** & Glenn, A. (in press). Mending the heart. Plants used in Peruvian ethnomedicine for heart disease, blood pressure irregularities and cholesterol control. *Arnaldoa* 18(1).
5. Vandebroek, I., Reyes-Garcia, V., de Albuquerque, U.P., **Bussmann, R.W.**, Pieroni, A. (2011) Local knowledge: who cares? *Journal of Ethnobiology and Ethnomedicine* 7:35.
6. Sheikh, M.A., Kumar, M., Todaria N.P., **Bussmann, R.W.** (in press). Forest carbon stocks and fluxes in physiographic zones of India. *Carbon Balance and Management*.
7. Kumar, M., Sheikh, M.A., **Bussmann, R.W.** (2011). Ethnomedicinal and ecological status of plants in Garhwal Himalaya, India. *Journal of Ethnobiology and Ethnomedicine* 7:32.
8. **Bussmann, R.W.**, Swartzinsky, P., Worede, A., Evangelista, P. (2011). Plant use in Odo-Bulu and Demaro, Bale region, Ethiopia. *Journal of Ethnobiology and Ethnomedicine* 7:28.
9. **Bussmann, R.W.** (2011). "I know every tree, every single tree one can see..." – The life and legacy of Richard E. Schultes. *Plant Science Bulletin* 57(2) 66-69.
10. **Bussmann, R.W.**, Malca, G., Glenn, A., Sharon, D., Nilsen, B., Parris, B., Dubose, D., Ruiz, D., Saleda, J., Martinez, M., Carillo, L., Walker, K., Kuhlman, A., Townesmith, A. (2011). Toxicity of medicinal plants used in Northern Peru. *Journal of Ethnopharmacology* 137: 121-140.
11. **Bussmann, R.W.** & Glenn, A. (2011). Fighting infections – medicinal plants used in Northern Peru for the treatment of bacterial and fungal infections and inflammation symptoms. *Journal of Medicinal Plant Research* 5(8):1297-1304.
12. Kumar, M., **Bussmann, R.W.**, Mukesh, J., Kumar, P. (2011). Ethnomedicinal uses of plants close to rural habitation in Garhwal Himalayan, India. *Journal of Medicinal Plant Research* 5(11) 2252-2260.
13. **Bussmann, R.W.** & Glenn, A. (2011). Fighting pain. Traditional Peruvian remedies for the treatment of Asthma, Rheumatism, Arthritis and sore bones. *Indian Journal of Traditional Knowledge*: 10(3) 397-412.
14. **Bussmann, R.W.**, Glenn, A., Sharon, D., Chait, G., Díaz, D., Pourmand, K., Jonat, B., Somogy, S., Guardado, G., Aguirre, C., Meyer, K., Rothrock, A., Townesmith, A. (2011). Antibacterial activity of Northern Peruvian medicinal plants. *Ethnobotany Research and Application* 9: 67-96.
15. Laurance, W.F., Useche, C.D., Shoo, L.P., Herzog, S.K., Kessler, M., Escobar, F., Brehm, G., Axmacher, J.C., Chen, I.C., Arellano Gámez, L., Hietz, P., Fiedler, K., Pycsz, T., Wolf, J., Merkord, C.L., Cardelus, C., Marshall, A., Ah-Peng, C., Aplet, G.H., Coro Arizmendi, M. del, Baker, W.J., Barone, J., Brühl, C.A., **Bussmann, R.W.**, Ciczuzza, D., Eilu, G., Favila, M.E., Hietz, P., Hemp, A., Hemp, C., Homeier, J., Huey, R.B., Hurtado, J., Jankowski, J., Kattán, G., Kluge, J., Krömer, T., Lees, D., Lehnert, M., Longino, J.T., Lovett, J., Martin, P.H., Patterson, B., Pearson, R., Peh, K.S.-H., Richardson, B., Richardson, M., Samways, M., Feyera Senbeta, F., Smith, T.B., Tim Utteridge, T., Watkins, J.E., Wilson, R., Williams, S.E., & Thomas, C.D. (2011). Global warming and the vulnerability of tropical biota: Where do the thermal specialists live? *Biological Conservation* 144: 548–557.
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