

# Curriculum Vitae and Publication List

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## **Prof.\* Dr. rer. nat. Rainer Willi Bussmann**

**Head, Department of Botany, State Museum for Natural History, Karlsruhe, Germany**

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**\*Professor, Department of Ethnobotany, Institute of Botany, Ilia State University, Tbilisi, Georgia**

Botanical St. 1, 0105 Tbilisi, Georgia  
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## **Academic Training**

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

## **Areas of Interest**

Vegetation and Regeneration Ecology

Ethnobotany / Ethnobiology

Traditional Crops and Wild Food Plants / Crop Wild Relatives

Natural Resource Management, Conservation and Sustainable Development

International law in relation to Intellectual Property Rights, Ecology and Environment

## **Language Proficiency**

German:      Native

English:      Fluent (reading, writing, conversation)

Spanish:      Fluent (reading, writing, conversation)

French:        Intermediate (reading), Elementary (writing), Elementary (conversation)

Russian:      Basic

Georgian      Basic

Latin          Grosses Latinum

## Academic Positions held

2022-present	<b>Head</b> , Department of Botany, State Museum for Natural History, Karlsruhe, Germany
2022-present	<b>Professor</b> , Department Ethnobotany, Institute of Botany, Ilia State University, Tbilisi, Republic of Georgia
2021-2022	<b>Professor and Head</b> , Department Ethnobotany, Institute of Botany, Ilia State University, Tbilisi, Republic of Georgia
2017-2021	<b>Principal scientist</b> , Department Ethnobotany, Institute of Botany, Ilia State University, Tbilisi, Republic of Georgia
2007-2017	<b>Director William L. Brown Center and William L. Brown Curator for Economic Botany / Senior Curator</b> , Missouri Botanical Garden
2006-2007	<b>Research Fellow</b> , The University of Texas at Austin
2003-2006	<b>Associate Professor of Botany and Scientific Director Lyon Arboretum</b> , University of Hawai'i at Manoa
2001-2002	<b>Project Director</b> , Regeneration and Ethnobotany of Kakamega and Mt. Kenya Forests, and Development of Maseno University Botanical Garden, Kenya
1997-2002	<b>Program Coordinator and Project Director</b> , Ecology of Disturbed and Undisturbed Tropical Mountain Forests, Ecuador
1992-1996	<b>Project Leader</b> , Mountain Forests of East Africa – Vegetation, Regeneration and Management, Kenya and Ethiopia
1994-2002	<b>Postdoc</b> , University of Bayreuth, Germany
1993-1994	<b>PhD student</b> , University of Bayreuth, Germany
1988-1991	<b>Teaching Assistant</b> , University of Tübingen, Germany

## Adjunct and Associate Appointments

2021-present	<b>Member</b> IUCN SSC Suli
2019-present	<b>Member</b> IUCN SSC Medicinal Plants Specialist Group
2016-2020	<b>Profesor Invitado</b> , Facultad de Ciencias Biológicas, Universidad Nacional Mayor de San Marcos, Perú
2015-present	<b>Affiliate Faculty</b> , School of Natural Resources and the Environment, University of Florida, Gainesville, USA
2014-2020	<b>Affiliate Faculty</b> , Universidade Federal da Paraíba, Centro de Ciências Agrárias, Departamento de Fitotecnia e Ciências Ambientais, Laboratório de Etnoecologia Brazil
2014-2019	<b>Affiliate Faculty</b> , Department of Geosciences, Florida Atlantic University Boca Raton, USA
2008-2018	<b>Honorary Adjunct Professor</b> , University of Missouri, St. Louis, USA
2008-2018	<b>Honorary Adjunct Professor</b> , Washington University St. Louis, USA
2003-2009	<b>Adjunct Professor</b> , University of Hawai'i at Manoa, Honolulu, USA
2005-2006	<b>Visiting Scholar</b> , The University of Texas at Austin, USA
1996-2015	<b>Professor Minority Research and Training Program Peru and Advisor</b> , International Center of Phytomedicine, San Diego State University, San Diego, CA

1995-2018      **Research Associate**, San Diego Museum of Man, San Diego, CA

## Other Professional Positions

2018-present      **Board member, Co-Founder**, Center for Ethnobiology of the Caucasus Mountains, Tbilisi, Georgia

2018-present      **Member**, IUCN SSC Medicinal Plants Specialist Group

2017-present      **Co-Director**, Saving Knowledge / Ceja Andina, La Paz, Bolivia

2008-2017      **Board member, Co-Founder**, Sacred Seeds, USA

2005-2007      **CEO, Founder**, Ceja Andina Consulting, Austin, TX, USA

2003-2015      **Research / Development Director, Co-founder**, Arogya Inc., Honolulu, USA

1999-2002      **Board member, Co-founder**, INKA e.V. - International Network for Cultural and Biological Diversity, Munich, Germany

1997-2010      **Vice President and Scientific Director, Co-Founder**, Nature and Culture International, Del Mar, CA, USA

1996      **Expedition Director**, Vilcabamba und Cordillera de Sabanilla y Tzunantza Rapid Assessment Expedition, Ecuador

1990-1992      **Conservation Director**, German Mountain Club, Leutkirch Chapter, Leutkirch, Germany

1983-1992      **Field Botanist**, flora and habitat mapping program, Federal State Baden-Württemberg, Germany

1985-1992      **Chair**, Natural Science working group, Adult College Leutkirch, Germany

## Military Service

1986-1987      1. German Mountain Division

## Scholarships and Awards

Honorary Diploma, Georgian Academy of Sciences, 2022

Society for Ethnopharmacology-India (SFE-India) Outstanding International Ethnopharmacologist Award, 2022.

Ilia Chavchavadze medal for scientific excellence, Ilia State University, 2021

Excellent Scholar Award, XIX International Botanical Congress, Shenzhen, China, 2017.

James A. Duke Excellence in Botanical Literature Award 2013 for "*Medicinal Plants and the Legacy of Richard E. Schultes.*"

Habilitation Stipend, "Ecology of Disturbed and Undisturbed Tropical Mountain Forests," German Science Foundation (DFG) 1999-2002

Post-Doc Stipend, Research Program "Ecology of Disturbed and Undisturbed Tropical Mountain Forests," German Science Foundation (DFG) 1997-1999

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

## Teaching

Advanced Ethnobotany (lecture and field course)  
Advanced Statistics in Quantitative Ethnobotany and Ethnobiology (lecture and field course)  
Alpine Flora and Vegetation (lecture, seminar and excursion)  
Arctic and Alpine Plant Communities: Vegetation, Ecology and Physiology (lecture, seminar and excursion)  
Biodiversity Conservation (lecture and seminar)  
Conservation, Management and Sustainable Use of Natural Resources (lecture and seminar)  
Ethics in Ethnobiology (lecture)  
Ethnobotany / Economic Botany (lecture)  
Ethnobotany / Ethnobiology of the Caucasus (lecture, seminar and field course)  
Tropical Plant Ecology (lecture)  
International Law, Biodiversity Convention, and Intellectual Property Rights (lecture)  
Introductory Botany, Plant Morphology and Anatomy (lecture and laboratory course)  
Medicinal Botany (lecture and seminar)  
Psychoactive plants (seminar)  
Qualitative and Quantitative Ethnobotany (lecture and field course)  
Scientific writing (lecture and practical studies)  
Systematic Botany (lecture, laboratory course and field excursions)  
Vegetation and Ecology of Tropical and Temperate High Mountain Systems (lecture and seminar)  
Vegetation Community Ecology (lecture and seminar)

## External Thesis Advisor

2021-present	Centre d'Etudes Doctorales Sciences et Techniques, Faculté des Sciences, Université Mohammed Premier - Oujda, Morocco
2021-present	Islamia College, Peshawar, Pakistan
2017-present	International Islamic University, Islamabad, Pakistan
2017-present	Hazara University, Manshera, Pakistan
2016-2020	Universidad Mayor de San Andres, La Paz, Bolivia
2013-2020	West Bengal University of Technology, Kolkatta, India
2009-2020	Madurai Mamaraj University, Madurai, India
2009-2020	St. Xavier's College, Palayamkottai, India
2009-2020	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

## **Mentoring Activities**

NIH-MHIRT Peru (Minority Health Disparity Research Training Program 2002-2018)

Washington University SURF (Summer Undergraduate Research Fellowship 2009-2014)

Planting Science (2009-2010)

## **Grants and contracts**

- 2020** Firmenich Inc. - Discovery plant collection contract (\$ 100,000)  
National Geographic Society, CRE Reviewer Circle (\$ 2,000)
- 2019** Firmenich Inc. - Discovery plant collection contract (\$ 100,000)  
National Geographic Society, CRE Reviewer Circle (\$ 2,000)
- 2018** Senomyx Inc. - Discovery plant collection contract (\$ 78,000)  
National Geographic Society, CRE Reviewer Circle (\$ 2,000)
- 2017** Senomyx Inc. - Discovery plant collection contract (\$ 9,000)  
PepsiCo - Discovery evaluation contract (\$ 15,000)  
National Center for Natural Product Research Plant collection contract (\$ 70,000)
- 2016** Senomyx Inc. - Discovery plant collection contract (\$ 75,000)  
National Center for Natural Product Research Plant collection contract (\$ 70,000)  
National Center for Natural Product Research FDA natural products research (Co-PI, \$ 300,000 of \$ 2,100,000 grant)
- 2015** Pakistan – US Science & Technology Cooperation Program (\$ 342,139.50)  
National Center for Natural Product Research Plant collection contract (\$ 70,000)  
NIH-MHIRT Minority Health Disparity Research and Training Grant Peru 2014 (through San Diego State University, Bob Pozos PI, \$ 20,000)  
Senomyx Inc. - North America plant collection contract (\$ 36,500)  
Herbalife – Plant collection contract (\$ 5,000)  
Sehgal Family Foundation endowment contribution to William L. Brown Center (\$ 250,000).  
Missouri Botanical Garden matching fund contribution to William L. Brown Center Endowment (\$ 500,000)  
Pioneer US plant collection contract (\$ 120,000 over 2years)
- 2014** NIH-MHIRT Minority Health Disparity Research and Training Grant Peru 2014 (through San Diego State University, Bob Pozos PI, \$ 30,000)  
National Center for Natural Product Research Plant collection contract (\$ 70,000)  
Senomyx Inc. - Discovery plant collection contract (\$ 12,500)  
Herbalife – Plant collection contract (\$ 10,000)  
Sehgal Family Foundation endowment contribution to William L. Brown Center (\$ 250,000).
- 2013** Kemin Inc. – Plant collection contract (\$ 21,000)  
NIH-MHIRT Minority Health Disparity Research and Training Grant Peru 2013 (through San Diego State University, Bob Pozos PI, \$ 50,000)  
New Chapter Organics support for “Sacred Seed Program” (\$ 60,000)

- National Center for Natural Product Research Plant collection contract (\$ 70,000)
- National Geographic Society Chacobo Ethnobotany (\$ 20,000)
- Senomyx Inc. - Discovery plant collection contract (\$ 1,000)
- 2012** NOVUS Award program (\$ 37,000)
- Semomyx Inc. - Discovery plant collection contract (\$ 60,000)
- Sensient Inc. - Natural Dye discovery contract (\$ 50,000)
- Traditional Medicinals Inc. – Plant assessment contract (\$2,500)
- NIH-MHIRT Minority Health Disparity Research and Training Grant Peru 2012 (through San Diego State University, Bob Pozos PI, \$ 50,000)
- New Chapter Organics support for “Sacred Seed Program” (\$ 35,000)
- National Center for Natural Product Research Plant collection contract (\$ 70,000)
- Pioneer US plant collection contract (\$ 212,000 over 3 years)
- 2011** National Center for Natural Product Research FDA natural products research (Co-PI, \$ 272,000 of 2,000,000 grant)
- NOVUS Ethnoveterinary discovery (\$ 20,000)
- Senomyx Inc. - Discovery 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** Sensient Inc. - Natural Dye discovery program (\$ 50,000)
- Senomyx 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 \$ 500,000 to endow new curatorship of Medicinal Botany.
- Senomyx Inc. - Discovery 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)
- Senomyx Inc. - Discovery 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).
- Missouri Life Science Award (Co-PI, \$ 340,000).
- 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)
- 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)
- 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)

## **Review and Editorial Activities**

### **Grant Reviews**

Bundesministerium für Wissenschaft, Forschung und Wirtschaft (Österreich) (2016- present)

Commission of the European Union, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> Framework Program (2000-2010)

Czech Academy of Science (2005- present)

Gesellschaft für Technische Zusammenarbeit – German Development Agency (1998)

Medical Research Council (MRC) South Africa (2012- present)

Missouri Life Science Research Fund (2009)

National Geographic Society / NGS CRE reviewer circle (2009- present)

National Institutes of Health –International Cooperative Biodiversity Groups (2008)

South African Science Council (2008- present)

Swiss National Science Foundation (2005- present)

USAID/NASEM PEER (2020- present)

Volkswagen Foundation (1999- present)

### **Editorial Activities**

**Editor in Chief** Ethnobotany Research and Applications (2018-present)

Gaia Scientia (2015-2017)

Lyonia (2003-2006)

**Deputy Editor** Journal of Ethnobiology and Ethnomedicine (2009-present)

**Associate Editor** Economic Botany (2012-2020)

Ethnobiology and Conservation (2014-present)

Evidence Based Complementary and Alternative Medicine (2013-2018)

Gaia Scientia (2014)

Journal of Ethnobiology and Ethnomedicine (2004-2009)

Pleione (2020-present)

**Academic Editor** PlosONE (2016-2022)

**Senior Editor** Ethnobotany Research and Applications (2008-2014)

**Subject Editor** Nordic Journal of Botany (Ethnobotany, 2020-present)

Vegetos (Biodiversity, Conservation, Forestry, Medicinal & Aromatic Plants, Ethnobotany (2023-present)

**Editorial Board** Indian Journal of Traditional Knowledge (2010-present)

Nelumbo (2020-present)



## **Reviewer (only 2021-2023 shown)**

Acta Bôtanica Brasílica  
Acta Ecologica Sinica  
African Health Sciences  
Agriculture  
Agronomy  
Ambio  
Arabian Journal of Medicinal and Aromatic Plants  
Biodiversitas  
Biodiversity and Conservation  
Biological Conservation  
Biologia  
Biology  
Biomolecules  
BMC Complementary Medicine and Therapies  
Brazilian Journal of Science  
Current Traditional Medicine  
Diversity  
Diversity and Distributions  
Ecological Indicators  
Economic Botany  
Environment, Development and Sustainability  
Environmental Development  
Ethnobotany Research and Applications  
European Journal of Integrative Medicine  
Food and Humanity  
Foods  
Frontiers in Microbiology  
Frontiers in Pharmacology  
Frontiers in Plant Science  
Frontiers In Sustainable Food Systems  
Frontiers in Veterinary Science  
Global Ecology and Conservation  
Heliyon  
HERMED  
Human Ecology  
Indian Journal of Traditional Knowledge  
Industrial Crops & Products  
iScience  
Journal of Applied Research on Medicinal and Aromatic Plants  
Journal of Ethnic Foods  
Journal of Ethnobiology  
Journal of Ethnobiology and Ethnomedicine  
Journal of Ethnopharmacology  
Journal of Herbal Medicine  
Journal of Nature Conservation  
Journal of Threatened Taxa  
Journal of Traditional and Complementary Medicine  
Land  
Life  
Marine Drugs  
Medical Anthropology  
Medicinal Chemistry  
Metabolites

Molecules  
Mountain Research and Development  
Nature  
Nature Ecology and Evolution  
Nature-Based Solutions  
New Zealand Journal of Botany  
Nutrients  
Pakistan Journal of Botany  
Pakistan Journal of Scientific & Industrial Research  
Phytochemistry Reviews  
Phytokeys  
Plant Diversity  
Plants  
PlosOne  
Proceedings of the Pakistan Academy of Sciences  
Revista Brasileira de Farmacognosia  
Saudi Pharmaceutical Journal  
Science of the Total Environment  
South African Journal of Botany  
Sustainability  
Toxins  
The Lancet  
Vegetos  
Water, Air and Soil Pollution

## **Service to professional Societies**

**Society for Economic Botany:** Immediate Past President (2012-2013), President (2011-2012), President Elect (2010-2011), Council Member (2008-2010); Ethics Committee Member (2012-2020), Publication Committee Member (2013-2017), Schultes Award Committee Chair (2008, 2009, 2012, 2013, 2015, 2016, 2017), Editorial Board Committee Member (2016-2020), Publication Review Committee Member (2012-2020)

**International Society for Ethnopharmacology:** Board Member (2010-2014)

**Society of Ethnobiology:** Board Member (2008-2011)

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

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

**Garden Clubs of America** – Chatham Award Committee Member (2007-2017)

## **Professional Memberships**

AETFAT (Association for the Taxonomic Study of the Flora of Africa), Bayerische Botanische Gesellschaft, Botanische Arbeitsgemeinschaft Südwestdeutschland, Bryologisch-Lichenologische Arbeitsgemeinschaft für Mitteleuropa, Gesellschaft für Naturkunde Baden Württemberg, East Africa Natural History Society, Global Mountain Biodiversity Assessment (GMBA), Gloria (Global Observation Research Initiative in Alpine Environments), International Society for Ethnobiology, International Society for Ethnopharmacology, Naturwissenschaftlicher Verein Karlsruhe, Society for Economic Botany, Society for Ethnobiology

## **Documentaries**

### **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
- 2015 "The Secret World of Herbs – South America", arte (Germany/France), mdr (Germany), SWR (Germany), Encuentro (Argentina)

## **Congress organization**

Advances and perspectives of Biodiversity Research and Conservation in Georgia, May 20-22, 2019, Tbilisi, Georgia. Member of the Organizing Committee.

XII. Congreso Latinoamericano de Botánica, Quito, Ecuador, 21-28 October 2018: Symposium "Plantas útiles de América Latina - del conocimiento tradicional al Protocolo de Nagoya": Organizer.

II. International Conference "Conservation of medicinal and aromatic plants for the improvement of livelihoods in mountain communities through industrial linkages", Swat, Pakistan, 3-5 September 2018; Member International Scientific Organizing Committee.

VI. Congreso Latinoamericano de Plantas Medicinales (COLAPLAMED), Trujillo, Peru, 15-17 August 2018; Member International Scientific Organizing Committee.

58<sup>th</sup> Annual meeting of the Society for Economic Botany and II. Hispano-Portuguese Meeting on Ethnobiology, Bragança, Portugal, 4-6. June 2017; Member Organizing Committee.

IV<sup>th</sup> William L. Brown Symposium, St. Louis, MO, 30. April 2015; Head Organizing Committee.

XII American Society of Pharmacognosy meeting, St. Louis, Missouri, 13-17. July 2013; Member Scientific Organizing Committee.

Botany 2011 – Joint 52<sup>nd</sup> Annual meeting of the Society for Economic Botany and Botanical Society of America, American Society of Plant taxonomists, American Fern Society; Member Organizing Committee.

III<sup>rd</sup> William L. Brown Symposium, St. Louis, MO, 9-13. July 2011; Head Organizing Committee.

II<sup>nd</sup> William L. Brown Symposium, St. Louis, MO, 7-8. November 2008; Head Organizing Committee.

International Symposium on Drylands Ecology and Human Security Perspectives, Policy Responses and Sustainable Development in the Arab Region - Challenges and Opportunities, Dubai, December 4-7, 2006; Member International Scientific Committee.

47<sup>th</sup> IAVS (International Association for Vegetation Science) Congress, Hawaii, 18-23. July 2004; Member Organizing Committee.

2<sup>nd</sup> Congress of Biodiversity in the Andes and Amazon Basin and IV. Ecuadorian Botanical Congress, Loja, Ecuador, 25-30. August 2003; Member Organizing Committee,

1<sup>st</sup> International Congress on Conservation of Biodiversity in the Andes and the Amazon Basin, Cusco, Peru, 24-28. September, 2001; Head Organizing Committee.

## **Fieldwork and Research Experience**

Collection of over 20,000 voucher numbers, and field research in Argentina, Armenia, Austria, Azerbaijan, Belgium, Bhutan, Brazil, Bolivia, Bosnia-Herzegovina, Bulgaria, Czech Republic, China, Chile, Colombia, Costa Rica, Croatia, Czech Republic, Cyprus, Ecuador, Ethiopia,

Finland, France, French-Polynesia, Georgia, Germany, Greece, Hawai'i, Hungary, India, Iran, Kazakhstan, Kenya, Kosovo, Kyrgyzstan, Liechtenstein, Madagascar, North Macedonia, Mexico, Nepal, Netherlands, Pakistan, Peru, Portugal, Russia, Serbia, Slovenia, South Africa, Sri Lanka, Sweden, Switzerland, Tanzania, Thailand, Turkey, United Arab Emirates, United Kingdom, United States of America (25 States), Viet Nam.

## Publications Rainer W. Bussmann

ORCID: 0000-0002-3524-5273

Scopus ID: 6603001909; indexed publications: 312

Google Scholar: citations 20140; h-index: 77; h-index (since 2018): 68

Researchgate: citations 27946; h-index: 84

### ARTICLES (PEER REVIEWED)

1. Haq, SM; Pieroni, A; **Bussmann, RW**; Abd-ElGawad, AM; El-Ansary, HO. (2023). Integrating traditional ecological knowledge into habitat restoration: implications for meeting forest restoration challenges. *Journal of Ethnobiology and Ethnomedicine* 19:33. doi: 10.1186/s13002-023-00606-3
2. Haq, SM; Waheed, M; **Bussmann, RW**; Kumar, M. (2023). Trouble in the rice field: Distribution ecology and indicator value of weed species in the rice fields of Himalayan region. *Acta Ecologica Sinica*.
3. Haq, SM; Amjad, MS; Waheed, M; **Bussmann, RW**; Ali, K; Jones, DA. (2023). Vegetation communities and identification of indicator species in the riparian areas of Zabarwan mountain range in the Kashmir Himalaya. *Environmental and Sustainability Indicators* doi: 10.1016/j.indic.2023.100277
4. Waheed, M; Haq, SM; Arshad, F; Jameel, MA; Siddiqui, MH; **Bussmann, RW**; Manshoor, N; Alamri, S. (2023). Where will threatened *Aegle marmelos* L. tree of the semi-arid region go under climate change? Implications for reintroduction of the species. *Land* 12:1433. doi: 10.3390/land12071433
5. Yang, X; Zhang, X; Xue, T; Zhang, XX; Yang, F; Yu, J; Janssens, S; **Bussmann, RW**; Yu, SX. (2023). Phylogenomics and historical biogeography of Hydrangeaceae (Hydrangeaceae) elucidate the effects of geologic and climatic dynamics on diversification. *Proceedings of the Royal Society B*. 290: 20230659. doi: /10.1098/rspb.2023.0659
6. Jameel, MA; Nadeem, MS; Haq, SM; Mubeen, I; Shabbir, S; Ahmad, R; Gaafar, ARZ; Al-Munqedhi, BMA; **Bussmann, RW**. (2023). Shifts in the distribution range and niche dynamics of the globally threatened Western Tragopan (*Tragopan melanocephalus*) due to climate change and human population pressure. *Biology* 12:1015. doi: 10.3390/biology12071015
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8. Haq, SM; Khoja, AA; Lone, FA; Waheed, M; **Bussmann, RW**; Mahmoud, EA; Elansary, HO. (2023). Floristic composition, life history traits and phytogeographic distribution of forest vegetation in the Western Himalaya. *Frontiers in Forests and Global Change* 6. doi: 10.3389/ffgc.2023.1169085
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