

Curriculum Vitae and Publication List

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

***Professor, Department of Ethnobotany, Institute of Botany, and School of Natural Science and Medicine, Ilia State University. Ilia State University, Tbilisi, Georgia**

Botanical St. 1, 0105 Tbilisi, Georgia
email: rainer.bussmann@iliauni.edu.ge

Head, Department of Botany, Staatliches Museum für Naturkunde Karlsruhe, Germany

Erbprinzenstrasse 13; 76133 Karlsruhe, Germany
email: rainer.bussmann@smnk.de

Academic Training

1994 Dr. rer. nat. (PhD), University of Bayreuth, Germany, Magna Cum Laude
1993 Dipl. Biol. (M.Sc. Biology), 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 seven years studied, Grosses Latinum

Professional Positions held

2022-present	Head , Department of Botany, Staatliches Museum für Naturkunde Karlsruhe, Germany
2022-present	Professor , Department Ethnobotany, Institute of Botany, Ilia State University, Tbilisi, Republic of Georgia
2021-2022	Professor and Head , Department Ethnobotany, Institute of Botany, Ilia State University, Tbilisi, Republic of Georgia
2017-2021	Principal scientist , Department Ethnobotany, Institute of Botany, Ilia State University, Tbilisi, Republic of Georgia
2017-present	Director , Saving Knowledge / Ceja Andina, La Paz, Bolivia
2007-2017	Director William L. Brown Center and William L. Brown Curator for Economic Botany / Senior Curator , 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 Hawai'i at Manoa
2002-2003	Vice President and Scientific Director , Nature and Culture International, Del Mar, CA, USA
2001-2002	Project Director , Regeneration and Ethnobotany of Kakamega and Mt. Kenya Forests, and Development of Maseno University Botanical Garden, Kenya
1997-2002	Program Coordinator and Project Director , Ecology of Disturbed and Undisturbed Tropical Mountain Forests, Ecuador
1997-2002	Assistant Professor / Postdoc , University of Bayreuth, Germany
1992-1996	Project Leader , Mountain Forests of East Africa – Vegetation, Regeneration and Management, Kenya and Ethiopia
1994-1996	Postdoc , University of Bayreuth, Germany
1993-1994	PhD student , University of Bayreuth, Germany
1988-1991	Teaching Assistant , University of Tübingen, Germany

Adjunct and Associate Appointments

2021-present	Member IUCN SSC Suli
2019-present	Member IUCN SSC Medicinal Plants Specialist Group
2016-2020	Profesor Invitado , Facultad de Ciencias Biológicas, Universidad Nacional Mayor de San Marcos, Perú
2015-present	Affiliate Faculty , School of Natural Resources and the Environment, University of Florida, Gainesville, USA
2014-2020	Affiliate Faculty , Universidade Federal da Paraíba, Centro de Ciências Agrárias, Departamento de Fitotecnia e Ciências Ambientais, Laboratório de Etnoecologia Brazil
2014-2019	Affiliate Faculty , Department of Geosciences, Florida Atlantic University Boca Raton, USA
2008-2018	Honorary Adjunct Professor , University of Missouri, St. Louis, USA
2008 2018	Honorary Adjunct Professor , Washington University St. Louis, USA
2003-2009	Adjunct Professor , University of Hawai'i at Manoa, Honolulu, USA

- 2005-2006 **Visiting Scholar**, The University of Texas at Austin, USA
- 1996-2015 **Professor Minority Research and Training Program Peru and Advisor**, 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 Activities

- 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 **Board member, Co-Founder**, 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

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 (PI, \$ 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)

Graduate students advised

Doctoral students (advisor, committee member or evaluator)

Tate, R.W. Ethnobotany and conservation in Adjara, Republic of Georgia. University of Florida, USA.

Gafna, DJ. 2023. Medicinal Plants Distribution and Supply: Conservation Issues and Implications. Karlsruher Institut für Technologie (KIT), Fakultät Bauingenieur, Geo- und Umweltwissenschaften, Karlsruhe,. Germany

Sulaiman, N. 2023. The Importance of Wild Plants for People during the Conflict in Syria. Czech University of Life Sciences Prague, Faculty of Tropical AgriSciences, Department of Crop Sciences and Agroforestry, Prague, Czech Republic

Blanco Olano, C.M. 2023. Estudio etnobotánico, fitoquímico y farmacológico de plantas medicinales utilizadas en la prevención y tratamiento sintomático de Covid-19. Universidad Nacional de Trujillo, Peru.

Valdivieso Campos, J.E. 2022. Evaluación *in silico* de moléculas con potencial actividad antiviral de especies vegetales de uso tradicional en la región La Libertad. Universidad Nacional de Trujillo, Peru.

Singh, A. 2022. Ecophysiological and propagation studies of *Megacarpaea polyandra* Benth. ex Madden. Hemvati Nandan Bahunguna Garhwal University, Srinagar, India.

Ijaz, S. 2022. Seed conservation and pharmacognostic study of wild medicinally important plants found in Neelum valley Azad Kashmir, Pakistan. University of Karachi, Pakistan.

Karanzi Oruç, C. 2021. Ethnobotanical Knowledge of transhumant people along the Georgia-Turkey border. Iliia State University, Tbilisi, Georgia

Fakchich, J. 2021. Evaluation de la connaissance indigène des Plantes Médicinales et Aromatiques au Maroc et dans la région Orientale Analyse critique de l'Approche Ethnobotanique. Centre d'Etudes Doctorales Sciences et Techniques, Faculté des Sciences, Université Mohammed Premier - Oujda, Morocco.

Khawaja Waqar, A. 2021. Allelopathy of medicinal plants and its impact on conservation of soil environment. Islamic University, Islamabad, Pakistan.

Rahman, S. 2021. Impact of silicon and silicon nanoparticles on *Triticum aestivum* L. and *Zea mays* L. under heavy metal stress. Islamia College, Peshawar, Pakistan.

Ibrahim, M. 2021. Proximate nutritional, elemental and antimicrobial analysis of selected wild edible plants of district Malakand. Islamia College, Peshawar, Pakistan.

Khan, AS. 2021. Isolation, characterization, and biological evaluation of bioactive compounds from root and stem bark of *Rhus succedanea* var. *himalaica*. Islamia College, Peshawar, Pakistan.

Ahmad, I. 2021. Mutagenic impact of picric acid on morpho-physiological and genetic attributes of three canola cultivars (*Brassica napus* L.) under different priming conditions. Islamia College, Peshawar, Pakistan.

Kumar, A. 2019. The Flora of the Gautam Buddha Wildlife Sanctuary, Bihar & Jharkhand, India. Andhra University, Visakhapatnam, Andhra Pradesh, India. (

de Farias Lima J.R. 2018. Ethnobotany and climate change in campesino communities of the cerrado. Universidade do Paraiba, Brazil.

Kunwar, R. 2018. Diversity and indigenous use of plant resources in West Nepal. Florida Atlantic University, USA.

Paulpriya, K. 2017. Exploration of pharmacognostical and bioactive potential of *Crotalaria longipes* Wight & Arn.: An endemic ethnomedicinal plant. Manonmaniam Sundaranar University, Abishekapatti, Tamil Nadu, India.

Rakotoarivelo, N.H. 2016. Inventory of useful and multiple use plants, in particular woody species at Vohibe forest, Ambalabe, Vatomaniry and their extinction risk assessment. Université du Antananarivo, Madagascar.

Randrianarivony, T. 2016. Ethnic value of vegetal resources in the surroundings and in the sacred forest of Analavelona, a new protected area in Southwest Madagascar. Université du Antananarivo, Madagascar.

Lozano, P. 2011. Vegetation and regeneration of natural landslides in the montane forests of Southern Ecuador. Universität Hohenheim, Germany.

Souto, T. 2009. Ethnoecology and forest dependency level of four indigenous and non-indigenous communities in the Lower Caura River, Venezuela. University of Hawaii, USA.

Njoroge, G. 2004. Land use and use of forest resources, particularly medicinal plants, in the Mount Kenya region, Kenya. University of Nairobi, Kenya.

Ochieng Nyunja R. 2004. Land use and use of forest resources, particularly medicinal plants, in the Kakamega region, Kenya. Maseno University, Kenya.

Fonge, B. 2004. Vegetation recovery on lava flows of different successional age on Mt. Cameroon, Cameroon. University of Buea, Cameroon.

Masters' students (advisor, committee member or evaluator)

Meyer, M. 2023. Species knowledge & ethnobotany in Karlsruhe – Development of a digital nature trail. Karlsruhe Institute of Technology, Germany.

Rocabado Imaña JE. 2023. La medicina tradicional y su relación con los factores culturales, socioeconómicos y ambientales. Universidad Mayor de San Andrés, La Paz, Bolivia.

Monigatti, M. 2011. Ethnobotany in the Northern Peruvian Andes. University of Zürich, Switzerland.

Rabearivony, D.A.N. 2011. Medicinal plants used by men at Ambalabe-Vatomaniry – Health implications, regeneration, and conservation status. Université du Antananarivo, Madagascar.

Raveloson, T.F. 2011. Ethnobotanical studies and ecological status assessment of some medicinal species used by female healers and women at Ambalabe-Vatomaniry. Université du Antananarivo, Madagascar.

Ratsaralaza, H.L.N. 2011. The most frequently used medicinal plants of the new protected area of Agnalazaha (Mahabo, Mananivo, Fargangana). Ethnobotanical and ecological studies for conservation strategy. Université du Antananarivo, Madagascar.

Razafindraibe, N.M. 2011. Medicinal plants used by women in Agnalazaha littoral forest and its surroundings: Ethnobotany and conservation ecology. Université du Antananarivo, Madagascar.

Randriamiharisoa, T.N.M. 2011. Ethnobotanical study and status assessment of some medicinal plants of Analamanga Region. Université du Antananarivo, Madagascar.

Fraiola, H.K. 2005. Documenting recovery: An assessment of regeneration and selected management actions in the Waianae Kai Forest Reserve after a wildfire. University of Hawaii, USA.

Lozano, D.F. & Sarango, S.P. 2005. Vegetación Pionera de los Derrumbos de la Franja Occidental del Parque Nacional Podocarpus, 2005, Universidad Técnica Loja, Ecuador.

Uday, V. 2003. 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. Universidad Técnica Loja, Ecuador.

Werner, F. 2002. 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.

Torracchi, S.C. & Escobedo R., V. 2001. 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. Universidad de Azuay, Cuenca, Ecuador.

Leischner, B. 2000. Holznutzung und Holzmarkt in den Provinzen Loja und Zamora-Chinchiipe, Süd-Ecuador - Timber use and timber market in the provinces of Loja and Zamora-Chinchiipe, South Ecuador. Univeritaet Muenchen, Germany.

Gálvez, J.R. 2000. 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. Universidad Nacional Loja, Ecuador.

Ordoñez, O.R. 2000. 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. Universidad Nacional Loja, Ecuador.

Ohl, C. 2000. Vegetation on natural landslides in the tropical mountain forest of southern Ecuador, with special consideration of the altitudinal gradient. Universitaet Saarbruecken, Germany.

Alvarado, R.P. 1999. Levantamiento de la cubierta vegetal en la Reserva Biológica de la Estación Científica San Francisco y diagnostico socio-economico del area de influencia - Vegetation cover in the Biological Reserve of Estación Científica San Francisco and socio-economic profile of its area of influence. Universidad Nacional Loja, Ecuador.

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 Bengalh 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

Teaching Experience

Qualitative and Quantitative Ethnobotany (Ilia State University, Tbilisi, Georgia)

Ethnobotany / Ethnobiology of the Caucasus (Ilia State University, Tbilisi, Georgia)

Scientific writing (Universidad Nacional, Trujillo, Peru).

Modern Methods in Ethnobiology. (Universidad Nacional, Trujillo, Peru)

Ethnobotany in the XXI century - breaking paradigms. Changes, innovations and ethical problems. (Universidad Nacional Mayor de San Marcos, Lima, Peru)

Advanced Statistics in Ethnobiology (Universidad Nacional Mayor de San Marcos, Lima, Peru)

Advanced Ethnobotany (Universidad Nacional Mayor de San Marcos, Lima, Peru)

Advanced Ethnobotany (Universidad Mayor de San Andres, La Paz, Bolivia)

Advanced Ethnobotany (Ilia State University, Tbilisi, Georgia)

Advanced Statistics in Quantitative Ethnobiology (Universidad Mayor de San Andres, La Paz, Bolivia)

Ethics in Ethnobiology (Universidad Mayor de San Andres, La Paz, Bolivia)

Medicinal Botany (Washington University St. Louis, USA)

Economic Botany (Washington University St. Louis, USA)

Biodiversity Conservation (University of Texas at Austin, USA)

Ethnobotany and Tropical Plant Ecology (Field Class in Northern Peru, University of California, Berkeley, USA)

Vegetation Community Ecology (Universität Bayreuth, Germany)

Ethnobotany / Economic Botany (Universität Bayreuth, Germany)

Vegetation and Ecology of Tropical and Temperate High Mountain Systems (Universität Bayreuth, Germany)

Arctic and Alpine Plant Communities: Vegetation, Ecology and Physiology (Universität Bayreuth, Germany)

Conservation, Management and Sustainable Use of Natural Resources (Emory University, Atlanta, USA)

International Law, Biodiversity Convention, and Intellectual Property Rights (Emory University, Atlanta, USA)

Introductory Botany, Plant Morphology and Anatomy (Universität Bayreuth, Germany)

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)

Review and Editorial Activities

Grant Reviews

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

Commission of the European Union, 5th, 6th and 7th 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)

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, 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, 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.

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

IVth 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 52nd Annual meeting of the Society for Economic Botany and Botanical Society of America, American Society of Plant taxonomists, American Fern Society; Member Organizing Committee.

IIIrd William L. Brown Symposium, St. Louis, MO, 9-13. July 2011; Head Organizing Committee.

IInd 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.

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

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

1st 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 collection 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.

2020 Bolivia – January - October (Ethnobotany)

2019 Bolivia – December (Ethnobotany)

2019 Republic of Georgia – August – November (Ethnobotany)

2019 Ecuador – August (Ethnobotany)

2019 Bolivia – July - Ethnobotany

2019 Republic of Georgia – May - June (Ethnobotany)

2019 Bolivia - April- May (Ethnobotany)

2019 Republic of Georgia – March - April (Ethnobotany)

2019 Bolivia - January - February (Ethnobotany)

2018 Spain, Germany, Italy – December (Ethnobotany of Christmas Celebrations)

2018 Bolivia – November (Ethnobotany)

2018 Republic of Georgia – September-October (Ethnobotany)

2018 Bolivia – July-August (Ethnobotany)

2018 Republic of Georgia – May-June (Ethnobotany)

2018 Bolivia – April (Ethnobotany)

2018 Germany, Spain, Portugal, Italy – March (Ethnobotany of Easter Celebrations)

2018 Bolivia – January-February (Ethnobotany)
2017 Republic of Georgia – October-November (Ethnobotany)
2017 Bolivia – August-September (Ethnobotany)
2017 Turkey – June (Ethnobotany)
2017 Portugal – June (Ethnobotany)
2017 Spain – May (Historic Ethnobotany)
2017 Kenya – May (Ethnobotany)
2017 Madagascar – April-May (Ethnobotany)
2017 Bolivia – March-April (Ethnobotany)
2017 Bolivia – January-February (Ethnobotany)
2016 Spain – December (Historic Ethnobotany)
2016 Peru – November-December (Ethnobotany)
2016 Bolivia – October-November (Ethnobotany)
2016 Portugal – October (Ethnobotany)
2016 China - September (Ethnobotany)
2016 Republic of Georgia – August (Ethnobotany)
2016 Bolivia – July - (Ethnobotany)
2016 Bolivia – May (Ethnobotany)
2016 Bolivia – March-April (Ethnobotany)
2016 India – February (Ethnobotany)
2016 Spain – January (Historic Ethnobotany)
2015 Bolivia - December (Ethnobotany)
2015 Spain – October-November (Historic Ethnobotany)
2015 Republic of Georgia - September-October (Ethnobotany)
2015 Bolivia - July-August (Ethnobotany)
2015 Peru - May-June – (Floristics)
2015 Kazakhstan – April (Floristics)
2015 Bolivia – January (Ethnobotany)
2015 Spain – November (Historic Ethnobotany)
2015 Bolivia – January-February (Ethnobotany)
2014 Spain – November-December (Historic Ethnobotany)
2014 Bolivia – September-October (Ethnobotany)
2014 Republic of Georgia - July-August (Ethnobotany)
2014 Bhutan – June (Ethnobotany)
2014 Madagascar – May (Ethnobotany and Floristics)
2014 Bolivia – January-February (Ethnobotany and Floristics)
2013 Peru – November (Floristics)
2013 Bolivia, Peru – September (Ethnobotany)
2013 Republic of Georgia– July (Ethnobotany)
2013 Turkey – July (Ethnobotany)

2013 Bolivia – May (Ethnobotany)
2013 Madagascar – March (Ethnobotany and Floristics)
2012 Bolivia – December (Ethnobotany)
2012 Bolivia – October/November (Floristics)
2012 Peru – October/November (Floristics)
2012 Peru – August (Ethnobotany, Floristics)
2012 Spain – April-July (Ethnobotany)
2012 Peru – March (Ethnobotany)
2012 India – February (Ethnobotany)
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 Republic of 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 Madagascar – August-September (Ethnobotany, Floristics)
2008 Peru – June-July (Ethnobotany, Floristics)
2007 Peru – June-August (Ethnobotany, Floristics)
2006 Ecuador – September (Vegetation Ecology, Floristics)
2006 Peru – July (Ethnobotany, Floristics)
2005 Ecuador – August and November (Vegetation Ecology, Floristics)
2005 Peru – August (Ethnobotany, Floristics)
2004 Thailand – November (Ethnobotany, Floristics)
2004 Sri Lanka – November (Ethnobotany, Floristics)
2004 India – October-November (Ethnobotany)
2004 Iran – October (Ethnobotany, Floristics)
2004 Spain – September (Floristics)

2004 Peru – July (Ethnobotany, Floristics)
2004 Peru – April (Ethnobotany, Floristics)
2004 French Polynesia – April (Ethnobotany, Floristics)
2003 Peru – August (Ethnobotany, Floristics)
2003 Ecuador – August (Vegetation Ecology, Floristics)
2002 Kenya – October-November (Ethnobotany, Floristics)
2002 Ecuador –October (Vegetation Ecology, Floristics)
2002 Ecuador – June-July (Vegetation Ecology, Floristics)
2002 Kenya – March (Ethnobotany, Floristics)
2001 Spain – May-June (Vegetation Ecology, Floristics)
2000 Ecuador – October (Vegetation Ecology, Floristics)
2000 Peru – August-October (Ethnobotany, Floristics)
2000 Kyrgyzstan – August (Ethnobotany, Floristics)
2000 Ecuador – August (Vegetation Ecology, Floristics)
2000 Ecuador – May (Vegetation Ecology, Floristics)
2000 Bolivia – May (Vegetation Ecology, Floristics)
2000 Peru – April-May (Ethnobotany, Floristics)
2000 Mexico – February (Ethnobotany, Floristics)
1999 Ecuador –October (Vegetation Ecology, Floristics)
1999 Peru – September (Ethnobotany, Floristics)
1999 Ecuador – July (Vegetation Ecology, Floristics)
1999 Ecuador – April (Vegetation Ecology, Floristics)
1998 Ecuador –October (Vegetation Ecology, Floristics)
1998 Ecuador –July (Vegetation Ecology, Floristics)
1998 Spain – February-March (Vegetation Ecology, Floristics)
1998 Ecuador – January (Vegetation Ecology, Floristics)
1997 Ecuador –September-December (Vegetation Ecology, Floristics)
1997 Ecuador – June-August (Vegetation Ecology, Floristics)
1997 Spain – May-June (Vegetation Ecology, Floristics)
1997 Ecuador – March-May (Vegetation Ecology, Floristics)
1996 Mexico – December (Vegetation Ecology, Floristics)
1996 Kenya – July (Vegetation Ecology, Floristics)
1996 Spain – May-June (Vegetation Ecology, Floristics)
1996 France – May (Vegetation Ecology, Floristics)
1996 Ethiopia – February (Vegetation Ecology, Floristics)
1996 Ecuador – September-November (Vegetation Ecology, Floristics)
1995 Ethiopia – November (Vegetation Ecology, Floristics)
1995 Ecuador – September (Ethnobotany, Floristics)
1995 Kenya – April-July (Vegetation Ecology, Floristics)
1995 Ethiopia – March (Vegetation Ecology, Floristics)

- 1994 Tanzania – August (Vegetation Ecology, Floristics)
- 1994 Kenya – January-August (Vegetation Ecology, Floristics)
- 1993 Kenya –November-December (Vegetation Ecology, Floristics)
- 1993 Kenya – February-July (Vegetation Ecology, Floristics)
- 1992 Kenya – February-July (Vegetation Ecology, Floristics)
- 1991 Sweden – July (Floristics)
- 1991 Ecuador – February-April (Floristics)
- 1990 France (Bretagne) – November (Floristics of Algae)
- 1990 Sweden – August-September (Floristics)
- 1990 Turkey – July (Floristics)
- 1990 Kenya – February-April (Floristics)
- 1989 Kenya – February-April (Floristics)
- 1987 Greece – February-April (Floristics)
- 1985 Cyprus – March-April (Floristics)

Publications Rainer W. Bussmann

ORCID: 0000-0002-3524-5273

Scopus ID: 6603001909; indexed publications: 330

Google Scholar: citations 25066 h-index: 83; h-index (since 2018): 74

Researchgate: citations 29962; h-index: 88

ARTICLES IN PEER REVIEWED JOURNALS

1. Valdiviezo-Campos, JE; Rodriguez-Aredo, CD; Ruiz-Reyes, SG, Venegas-Casanova, EA; **Bussmann, RW**; Ganoza-Yupanqui, ML (2023). Identification of polyphenols by UPLC MS/MS and their potential *in silico* antiviral activity from medicinal plants in Trujillo, Peru. *Journal of Pharmacy & Pharmacognosy Research* 12(2): 323-347, 2024 doi: 10.56499/jppres23.1807_12.2.323
2. Qin, F; Xue, TT; Liang, YF; Zhang, WD; Liu, Q; Chen, TX; **Bussmann, RW**; Han, BC; Yu, SX. (2023). Present status, future trends, and control strategies of invasive alien plants in China affected by human activities and climate change. *Ecography* e06919. doi: 10.1111/ecog.06919
3. Aliev, AM; Murtazaliev, RA; Vagabova, FA; Guseynova, ZZ; Ramazanova, BA; Islamova, FI; Alibegova, AN; Osmanov, RM; Mallaliev, MM; Mamalieva, MM; Radzhabov, GK; Anatov, DM; **Bussmann, RW**. (2023). Ethnobotany of Dagestan. *Ethnobotany Research and Applications* 26:66. doi: 10.32859/era.26.66.1-63
4. Shaheen, H; Aziz, S; Nasar, S; Waheed, M; Manzoor, M; Siddiqui, MH; Alamri, S; Haq, SM; **Bussmann, RW** (2023). Distribution patterns of alpine flora for long-term monitoring of global change along a wide elevational gradient in the Western Himalayas. *Global Ecology and Conservation* 48:e02702. 10.1016/j.gecco.2023.e02702
5. Sher, H; Ali, A; Sher, H; **Bussmann, RW**; Ur Rahman, I; Ullah, H; Ali, A; Ullah, Z. (2023). Sustainability and socio-economic impacts of plant resources utilization in Valley Lalku, District Swat, Pakistan. *Ethnobotany Research and Applications* 26:54. doi: 10.32859/era.26.54.1-18
6. Kwak, M; **Bussmann, RW**. (2023). The complete chloroplast genome sequence of *Rhododendron caucasicum* (Ericaceae) *Korean Journal of Plant Taxonomy* 53(3):230-236. doi: 10.11110/kjpt.2023.53.3.230
7. Ahad, L; Hassan, M; Amjad, MS; Mir, RA; Vitasoviç-Kosiç, I; **Bussmann, RW**; Binish, Z. 2023. Ethnobotanical Insights into Medicinal and Culinary Plant Use: The Dwindling Traditional Heritage of the Dard Ethnic Group in the Gurez Region of the Kashmir Valley, India. *Plants* 12:3599. doi: 10.3390/plants12203599
8. Ur Rahman, I; Hart, RE; Afzal, A; Iqbal, Z; **Bussmann, RW**; Ijaz, F; Khan, MA; Ali, H; Ur Rahman, S; Hashem, A; Abd_Allah, EF; Sher, A; Soares Calixto, E. (2023). Vegetation–environment interactions: plant species distribution and community assembly in mixed coniferous forests of Northwestern Himalayas. *Scientific Reports* 13:17228. doi: 10.1038/s41598-023-42272-1
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10. 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
11. 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*.
12. 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
13. 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
14. Yang, X; Zhang, X; Xue, T; Zhang, XX; Yang, F; Yu, J; Janssens, S; **Bussmann, RW**; Yu, SX. (2023). Phylogenomics and historical biogeography of Hydrangeeae (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

15. 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
16. Farias Lima, JR; Nunes Carvalho, TK; Santos Souza, R; Hart, R; **Bussmann, RW**; Fernandes Magalhães, H; da Silva Oliveira, RC; Farias Paiva de Lucena, (2023). Can the traditional use of native plant species in rural communities in the Brazilian semi-arid region be affected by global warming? *Ethnobiology and Conservation* 12:11. doi:10.15451/ec2023-06-12.11-121
17. Jorjadze, A; **Bussmann, RW**; Paniagua Zambrana, NY; Batsatsashvili, K; Svanidze, E. (2023). Traditional use of Polypores in Georgia (the Caucasus). *Ethnobotany Research and Applications* 26:5 (2023) - doi: 10.32859/era.26.5.1-18
18. Islomova, S; Asqarov, I; **Bussmann, RW**; Khojimatov, OK; Zafar, M; Makhkamov, T. (2023). Ethnobotany, medicinal utilization and analysis of biogenic elements and flavonoids of *Apium graveolens* and *Tussilago farfara* from Uzbekistan. *Ethnobotany Research and Applications* 26:36 (2023) - doi: 10.32859/era.26.36.1-12
19. Kosimov, ZZ; Khojimatov, OK; **Bussmann, RW**. (2023). Quantitative Ethnobotany of medicinal plants used by the mountain population of the Kitab Region, Uzbekistan. *Ethnobotany Research and Applications* 26:37 (2023) - doi: 10.32859/era.26.37.1-13
20. Mirzaman, Z; Kayani, S; Manzoor, M; Jameel, MA; Waheed, M; Gillani, SW; Babar, CM; **Bussmann, RW**. (2023). Ethnobotanical study of Makra Hills district Muzaffarabad, Azad Jammu and Kashmir, Pakistan. *Ethnobotany Research and Applications* 26:38 (2023) - doi: 10.32859/era.26.38.1-17
21. Waheed, M; Haq, SM; Jameel, MA; Arshad, F; **Bussmann, RW**. (2023). Documentation of ethnomedicinal plants used by the people living in reserved forests of semi-arid region Punjab Pakistan. *Ethnobotany Research and Applications* 26:39 (2023) - doi: 10.32859/era.26.39.1-17
22. Mohammadi, T; Moazzeni, H; Pirani, A; Vaezi, J; Motahhari, K; Joharchi, MR; **Bussmann, RW**. (2023). Ethnobotany of plants used by indigenous communities in Birjand, a dry region with rich local traditional knowledge in eastern Iran. *Ethnobotany Research and Applications* 26:21. doi.org/10.32859/era.26.21.1-40
23. Mir, TA; Jan, M; Bilal, T; Jan, HA; **Bussmann, RW**; Saini, N. (2023). Medicinal plant utilization among three linguistic groups in selected districts of Jammu and Kashmir. *Ethnobotany Research and Applications* 26:29. doi.org/10.32859/era.26.29.1-22
24. 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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26. Jan, HA; Mir, TA; **Bussmann, RW**; Jan, M; Hanif, U; Wali, S. (2023). Cross-cultural ethnomedicinal study of the wild species of the genus *Berberis* used by the ethnic communities living along both sides of the Indo-Pak border in Kashmir. *Ethnobotany Research and Applications* 26:3. doi: 10.32859/era.26.3.1-14
27. Gao, J; Xue, T; Xia, X; Tang, C; Qin, F; Yang, X; Wang, J; Huang, Y; Qi, Y; **Bussmann, RW**; Luo, C; Yu, SX (2023). Priority management measures based on analyses of conservation effectiveness and threat factors for medicinal plants used by three ethnic groups in China *Biological Conservation* 283: 110120. doi: 10.1016/j.biocon.2023.110120
28. Suárez-Rebaza LA, de Albuquerque RDDG, Zavala E, Alva-Plasencia PM, Ganoza-Suárez MM, Ganoza-Yupanqui ML, **Bussmann RW**. (2023). Chemical composition and antioxidant capacity of purified extracts of *Prosopis pallida* (Humb. & Bonpl. ex Willd.) Kunth (Fabaceae) fruits from Northern Peru *Blacpma* 22(5): 594-606. doi: 10.37360/blacpma.23.22.5.43
29. Malik, ZA; Singh, A; Malik, BA; Nautiyal, MC; **Bussmann, RW**. (2023). *Megacarpaea polyandra* Benth. ex Madden - a promising traditional therapeutic herb from the high-altitude Himalayas: A systematic review. *Acta Ecologica Sinica*. doi: 10.1016/j.chnaes.2023.05.001
30. Arshad, F; Haq, SM; Waheed, M; Jameel, MA; **Bussmann, R.W**. (2023). Environmental variables drive medicinal plant composition and distribution in various forest types of subtropical region in Pakistan. *Acta Ecologica Sinica*. doi: 10.1016/j.chnaes.2023.05.004
31. Khamraeva, D; Usmonov M; **Bussmann, R**; Khalilova, E; Kodirov, U. (2023). New data on the morphological and anatomical structure, chemical composition, and distribution area of a rare

- species *Komarovia anisosperma* in Uzbekistan. *Biological Communications* 68(1):10-20. doi: 10.21638/spbu03.2023.102
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 33. Haq, SM; Waheed, M; R; **Bussmann, RW**; Arshad, F; AM; Casini, R; Alataway, A; AZ; Elansary, HO. (2023). Climate Change and Human Activities, the Significant Dynamic Drivers of Himalayan Goral Distribution (*Naemorhedus goral*). *Biology* 12:610. doi: 10.3390/biology12040610
 34. Bashir, SM; Altaf, M; Hussain, T; Umair, M; Majeed, M; Mangrio, WM; Khan, AM; Gulshan, AB; Hamed, MH; Ashraf S; Amjad, MS; **Bussmann, RW**; Abbasi, AM; Casini, R; Alataway, A; Dewidar, AZ; Al-Yafarsi, M; Amin, MH; Elansary, HO. (2023). Vernacular Taxonomy, Cultural and Ethnopharmacological Applications of Avian and Mammalian Species in the Vicinity of Ayubia National Park, Himalayan Region. *Biology* 12:609. doi: 10.3390/biology12040609
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 41. Mazher, M; Ishtiaq, M; Hamid, B; Haq, SM; Mazhar, M; Bashir, F; **Bussmann, RW**. (2023). Ethnobotanical importance and conservation status of *Citrullus colocynthis* (L.) Schrad in division Mirpur, Kashmir Himalaya. *Ethnobotany Research and Applications* 25:33. doi: 10.32859/era.25.33.1-14
 42. Benkhniq, O; Khamar, H; **Bussmann, RW**; Chaachouay, N; Zidane, L. (2023). Ethnobotanical and ethnopharmacological study of medicinal plants used in treating some liver diseases in the Al-Haouz Rehamna region (Morocco). *Ethnobotany Research and Applications* 25:34. doi: 10.32859/era.25.34.1-32
 43. Waheed, M; Haq, SM; Arshad, F; **Bussmann, RW**; Ali, HM; Siddiqui, MH. (2023). Phyto-ecological distribution patterns and identification of alien invasive indicator species in relation to edaphic factors from semi-arid region. *Ecological Indicators* 148:110053. doi: 10.1016/j.ecolind.2023.110053
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 45. Ali, E; Azhar, MF; **Bussmann, RW**. (2023). Ethnobotanical inventory and medicinal applications of plants used by the local people of Cholistan desert, Pakistan. *Ethnobotany Research and Applications* 25:2. doi: 10.32859/era.25.21.1-23
 46. Shah, IA, Burni, T; Badshah, L; Ul Uza, N; **Bussmann, RW**. (2023). Quantitative ethnobotanical study and conservation status of herbal flora of Koh-e-Suleman range, Razmak valley, North Waziristan, Pakistan *Ethnobotany Research and Applications* 25:26. doi: 10.32859/era.26.5.1-18
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BOOK CHAPTERS and PROCEEDINGS

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