

BIO-DATA

PERSONAL DETAILS

Prof. R.K. Maikhuri,
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Web links:

Google Scholar: <https://scholar.google.co.in/citations?hl=en&tzom=-330&user=DM3U-6gAAAAJ>

Research Gate: <https://www.researchgate.net/profile/Rakesh-Maikhuri>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=7003885572>

1. Educational Qualifications:

- **Ph.D.** (1987) in Botany from North Eastern Hill University(NEHU), **Shillong, Meghalaya, India.**
- **Post Doctorate** (1987-1989) from School of Environmental Sciences, **Jawaharlal Nehru University (JNU)**, New Delhi, India.
- **M.Sc.**(1983) in Botany from University of Garhwal, (Garhwal), Uttarakhand (**Ist Division with 2nd position**).

2. Research and Development (R&D) experience: 40yrs.

3. Administrative & Financial Experiences:

- **Head of the Department: Looking after the administrative, academic, research and other responsibilities as a capacity of HOD (since 1st May, 2020).**
- **Scientist in-Charge:** Garhwal Unit of G.B. Pant National Institute of Himalayan Environment & Sustainable Development (GBPNIHESD), Srinagar Garhwal w.e.f. January 01, 1991 to December, 1993 (2 years) and also w.e.f. April, 1992 to till date (**28years**)
- **Theme Head:** Capacity Building & Knowledge Products (KCB), GBPNIHESD, Srinagar Garhwal w.e.f. December, 2007 to 2016(**9 years**).
- **Drawing & Disbursing Officer (DDO):** Garhwal Unit of GBPNIHESD, Srinagar Garhwal w.e.f. January 01, 1991 to May, 2009 (**18 years**).

4. Service career and positions held

Position Held	Institution	Period of Appointment	Nature of Appointment
Scientist 'A'	G.B. Pant National Institute	Jan. 1991– Dec.	Research & Development

	of Himalayan Environment and Development, Garhwal Unit, Srinagar (Garhwal)	1992	and Extension
Scientist `B`	GBPNIHESD	22 Dec. 1992– Dec. 1997	R&D and Extension
Scientist `C`	GBPNIHESD	1 Jan. 1998-Jan. 2003	R&D and Extension
Scientist `E`	GBPNIHESD	Jan. 2003-Dec. 2007	R&D and Extension
Scientist `F`	GBPNIHESD	Dec. 2007-Dec. 2013	R&D and Extension
Scientist `G`	GBPNIHESD	Jan. 2014-April 2020	R&D and Extension
Professor	Department of Environmental Sciences, HNBGU	1stMay,2020-- Continuing	Teaching and Research

5. Research Fields of Specializations:

- Environmental Sciences and Integrated Natural Resource Management.

6. Area of Research Interest:

- Rural and Agro-ecosystem structure and Function, Restoration/Rehabilitation Ecology,
- Natural Resource Management, Sustainable Use of Non-Timber Forest Products (NTFPs) and Product Development,
- Conservation and protection of sacred bio-cultural landscape following landscape approach/ecosystem approach.
- Protected area Management and Biodiversity Conservation,
- Climate Change Impact, Adaptation and Mitigation, and Carbon Sequestration in Mountain Ecosystem.

7. Teaching Experience:

- Teaching M.Sc. and P.G Diploma students of Environmental Sciences of HNB Garhwal University, Srinagar, Garhwal
- Taught M. Phil (Plant Physiology and Environmental Sciences) classes at High Altitude Plant Physiology Research Centre (HAPPRC) and M.Sc. (Forestry) classes at Deptt. of Forestry of HNB Garhwal University, Srinagar, Garhwal during the Academic session of 1993-94 and 1998-99.
- Taught M.Sc. students of Environmental Sciences of HNB Garhwal University, Srinagar, Garhwal during the Academic session of **1998-99**.

8. Supervised the students:

- **Ph.D. Students:** Guided/supervised: **18**, Under-supervision: **02**
- **M.Sc. Students:** Guided and supervised for M.Sc. dissertation work/diploma courses: **40**

ACADEMIC, SCIENTIFIC AND PROFESSIONAL RECOGNITION

9. Academic/Scientific and Professional Awards/Honours received:

- Awarded 2nd position in M.Sc. in Botany in University of Garhwal in 1983.
- *Internship award* in Mountain Agrobiodiversity has been conferred by International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal and it has been availed at ICIMOD in terms of 5 weeks training programme from January 9 to February 17, 1997.
- *Vishisht Vaigyanik Puraskar (Eminent Scientist Award)* for 1996-97 awarded by the Ministry of Environment & Forests, Govt. of India and presented by the **Hon'ble Prime Minister, Shri Atal Bihari Vajpai, Govt. of India, on the World Environment Day (5th June), 1999 at Vigyan Bhawan, New Delhi**, in the recognition of outstanding contribution in the field of rural and traditional agroecosystems and sustainable development (Biodiversity conservation and ecosystem management).
- **A START Young Scientist** Special Certificate of Commendation (2001) was conferred by the Global Change System for Analysis, Research and Training (START), Washington DC, USA for recognition of his **outstanding research and scientific contribution** particularly for the research paper entitled "*Changing scenario of Himalayan agroecosystems: loss of agrobiodiversity, an indicator of environmental change in Central Himalaya, India*", published in the journal THE ENVIRONMENTALIST (2001), 21: 23-39, Washington D.C., USA.
- **Er. S.N. Mishra Award** (2002) was conferred by the Association of Resource Persons Aid in Need (ARPAN), Kurukshetra in recognition of **outstanding research and scientific contribution** in the field of Restoration ecology/rehabilitation of degraded forest land and sustainable development.
- **Paryavaran Puruskar** for 2006 awarded by Ministry of Environment & Forests, Govt. of Uttaranchal and presented by the **Hon'ble Chief Minister Shri N.D. Tiwari on the World Environment day (5th June)** in the recognition of **outstanding scientific contribution** in the field of **Natural Resource Management and Sustainable Development**.
- **Vocational Award** for 2007 conferred by Rotary Club, Srinagar Garhwal for his **outstanding scientific contribution** in the field of environment and sustainable development.
- Conferred "**Academic Brilliance Award (2015)**" in the area of Excellence in Research by Education Expo, Research and Branding Company, Delhi at Delhi.

- **Ranked 1st (first) among top thirty (30) Indian** Authors for outstanding contribution in Research and development (R&D) publications on Himalaya during 2004-2013 based on the Scientometric assessment by **University of Nebraska-Lincoln, USA (2014)** and **Scopus data base**.
- **Ranked 2nd (second) among top ten (10) international** productive authors in publications on Himalayan R & D during 1989 – 2014 based on the Scopus data base.
- Conferred **“Paryavaran Samvardhan Puraskar 2018”**award by Paryavaran Samwardhan, Paryavaran auri Vikas Simit, Nandasain, Chamoli, in the recognition of outstanding contribution in the field of environment, natural resource management and sustainable development.
- Conferred **“Dr. Nityanand Kartabyaparayanta Samman 2018”**award and presented by the Hon’ble Cabinet Minister Shri Satpal Maharaj, Uttarakhand Govt. in the recognition of outstanding contribution in the field of rural ecosystems (Agrobiodiversity conservation and sustainable development).
- Conferred **Gandhi – 150 Samman (Honour)** by the Padama Bhushan Shri C.P. Bhatt, Paryavaran evam Vikas Kedra, Gopeshwar, Uttarakhand) for outstanding scientific contribution in the field of sustainable development of rural ecosystem.
- Awarded the first position in submission of the Best Practices on Hon’ble Prime Minister **10 Point’s Agenda 3 “Compendium on Role of Women in DRR In India” (“Agenda 3: Women’s leadership and greater involvement in disaster risk management”)** organised by IUINDRR-NIDM, National Institute of Disaster Management (Ministry of Home Affairs, Government of India)
- **Ranked in the world’s top 2% scientist list by Stanford University, USA and the European publisher Elsevier in October, 2022** for his outstanding research contribution in the field of Himalayan Environment and development.

Prizes:

Uttaranchal State Govt. Herbal Expo – Prize 2005: Represented Institute with a team of researchers and won Third Prize for outstanding contribution in Product Development and Bioprospecting of Non-Timber Forest Products and Medicinal Plants.

10. Member of the Scientific, Academic Bodies and Central/State Govt. Institute/Departments:

- **Member**, State Level Steering Committee of National Biodiversity Strategy and Action Plan for the Uttaranchal State (2001-2003).
- **Chairman:** 7 th Project Evaluation Committee (PEC) ,‘Integrated Eco-Development Research Programme (IERP)’, G.B. Pant National Institute of Himalayan Environment (GBPNIHE), nominated by the MEF&CC, Govt. of India.

- **Member**, Expert Committee, Uttarakhand Medicinal Plant Board, Uttarakhand Govt. (2001-2003).
- **Member**, Research Board of Advisors of American Biographical Institute, Inc. Raleigh, North Carolina, USA.
- **Member**, (Institute Faculty) of the Scientific Advisory Committee (for the XI Plan period), G.B. Pant Institute of Himalayan Environment and Development.
- **Expert and Member**, for course writing on appreciation programme in Himalayan Ecosystem, IGNOU, New Delhi.
- **Member**, Task Force on Forest Fire & Protection Committee, Uttarakhand Govt. (2004-2007).
- **Member (Director nominee)**, State Pollution Control Board, Uttarakhand Govt. (2001-2003).
- **Member**, Working Group on Agriculture, Action Plan for Climate Change Impact and Adaptation for Uttarakhand State (2010-11).
- **Member**, Agriculture and Agri-marketing (Agri-business) Section-1, Uttarakhand Govt. (April 2011- April 2013).
- **Member (Director nominee)**, Uttarakhand State Biodiversity Board (2018-2019)
- **Member**, Research Advisory Committee, Herbal Research & Development Institute, Gopeshwar, Govt. of Uttarakhand (2013-2015).
- **Member (Editorial Board)**, Himalayan Studies journal, Institute of Integrated Himalayan Studies, H.P. University, Shimla (<http://www.himalayanstudies.com>).
- **Member**, Project Evaluation Committee, Herbal Research and Development Institute (HRDI), Uttarakhand Govt. Gopeshwar, Uttarakhand.
- **Expert**, Board of Studies, Dept. of Rural Technology, HNB Garhwal University, Srinagar Garhwal (2007-11).
- **Expert**, Board of Studies of Soil Conservation & Watershed Management, HNB Garhwal University, Srinagar Garhwal (2005-2007).
- **External Examiner**, M.Sc. Wildlife Science Course, Wildlife Institute of India, Saurashtra University, Rajkot (Gujarat) during 2009-11, M.Sc. Forestry, Botany, HAPPRC, Seed Science & Rural Technology, HNB Garhwal University, Srinagar Garhwal.
- **Scientific Expert** for Nanda Devi Biosphere Reserve (India) for Glochamore (Global Change and Mountain Regions Research Strategy) project of **UNESCO (Paris), France**.

- **Member**, Expert Committee, Department of Science & Technology (DST), Govt. of India, SEED Division, TIME-LEARN programme – Field Project Evaluation (2017-2019).
- **Member**, Expert Committee, Department of Technology (DST), Govt. of India, WWF-India Group Monitoring Committee (2016-2018).
- **Member**, National Academy of Sciences (NASI), India.
- **Expert: Reviewers** of various national and international scientific journals.

11. Fellows of the Scientific and Academic Societies

- **Fellow**, National Institute of Ecology (NIE), Delhi.
- **Fellow**, Society of Environment & Development, Delhi.

12. Memberships of Scientific & Professional Societies:

- Indian Science Congress Association
- Indian Botanical Society
- Society of Ethnobotanists
- Society of Indian Tree Science
- Society of Himalayan Research Group
- National Institute of Ecology (life member)
- International Journal of Ecology, Environment and Conservation
- Commonwealth Forestry Association
- People's Association for Hill Area Research, Nainital
- International Society of Ethnobiology
- Society of Morphologists
- National Academy of Sciences, Allahabad (Life Member)

SCIENTIFIC RESEARCH PUBLICATIONSDETAILS

13. List of research papersand other publications (Total number):	480
a) Research papers published in peer reviewed international journals	140
b) Research papers published in national journals:	90
c) Research papers written as a Chapters for books and proceedings:	138
d) Popular/General articles in scientific and other popular magazines	60

e) Scientific bulletins/technical monographs/brochures/package of practice	25
f) Reports (Projects reports)	20
g) Books: edited with Other Co-Authors:	07

(Total cumulative Impact Factors of the scientific publications journals –699.8)

Total cumulative /impact factors based on the NAAS rating 3635.6

14. Scopus Citation:

a) Document listed by author in Scopus data base:	160
b) Total Scopus citation:	2736
c) <i>h</i> -index:	30

15. Books: Written/Edited with Other Co-Authors: 07

- 1) *Conservation and Management of Biological Resources in Himalaya*. Oxford & IBH Publishing Pvt. Ltd., New Delhi, 605p.
- 2) *Biosphere Reserves and Management in India*. G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora, 300p.
- 3) *Biodiversity, Land Use Dynamics and Traditional Ecological Knowledge*. Oxford & IBH Publishing Pvt. Ltd., New Delhi, 495p.
- 4) *Soil Biodiversity, Ecological Processes and Landscape Management* (eds). Oxford & IBH Publishing Pvt. Ltd., New Delhi, 445p.
- 5) *Fibre-Yielding Plants of the Indian Himalayan Region*. G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora, 48p.
- 6) *Sustainable Pastoralism in the Himalayas* (eds.). Indus Publishing Company, New Delhi, (The forward note of this book was written by **Eminent Scientist Dr. M.S. Swaminathan**), 263p.
- 7) *Lantana camara in India: An Ecological Review*. G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora, 55p.

16. Policy brief/inputs, Strategies and Guidelines etc. published:

- Agricultural policy and organic farming in Uttarakhand
- Bioprospecting and value addition of non-timber forest products development
- Park-people conflicts, protected area management and forest related issues.
- Eco-tourism and biodiversity conservation strategies and guidelines (UNESCO – documents).
- Role of the state on forest of Uttarakhand.

17. Projects completed successfully as a PI & Co-PI

- **External funded international projects completed successfully as a PI & Co-PI: Five (5)** sponsored by MacArthur Foundation (USA), TSBF/GEF/UNEP, UNESCO-South Asia, SIDA
- **External funded national projects completed successfully as a PI & Co-PI: Nineteen (19)** sponsored by DST, DBT, MoEF&CC, CSIR, ICAR, HRDI-NMPB, DST-NCSTC, ICSSR, NATP, NAIP, etc.
- **External funded project completed as a team member – Four (4)**

- **Projects completed as PI & Co-PI (In-house – Institutional) – 6**
 - **Projects on-going supported by External funding agencies – 2& institutional - 1**
- 18. Funds (Rs) generated from International & National External funded Projects from 1991 to till date: Total Rs. 9.70 Crore**
- **International projects:** TSBF/GEF/UNDP, MacArthur, UNESCO and SIDA
 - **National projects:** DST, DBT, MoEFCC, CSIR, ICAR (NAIP/NIHP/NICRA), NMPB

Ongoing Research and Development Projects:

1. Project entitled “**Multiplication, Cultivation, Standardization of Post-Harvest Processing and Product Development of High-Altitude Aromatic Plants of Western and Eastern Himalaya**” sponsored by DBT, Govt. of India, under Himalayan Bioresource Mission (HBM) to Department of Environmental Sciences, HNB Garhwal University, Srinagar Garhwal for three years (March, 2022 to March, 2025), Rs 38.17 lakhs.
 2. **Opportunities of livelihood to check migration from the hills) under Indian Himalayan Central University Consortium (IHCUC)** sponsored by MoE-UGC-NITI-Aayog, Govt. of India for one year (2021 to 2022), Rs.,3.75 lakhs.
 3. **Development of Adaptation Communication Framework Mainstreaming Indigenous and Local Knowledge for Hindu-Kush Himalayan Region**, sponsored by IGES, Japan (Multi-country project for one and half years), Rs. 12.0 lakhs.
- 19. Seminar/symposium attended:** International – 90, National/Regional and Local – 200.
- 20. Webinars: Organized (11)**
- 21. Webinars: Participated and delivered a key note speech/lectures:50**
- 22. Seminar/Workshop and Skill Developmental Training programme organized (national, regional and local level): 235**
- National level – 05
 - Regional and local level - 230
- 23. International visits/Assignments in relation to seminars/workshop/conference & training programme:**Total 19 (Nineteen)
- Kathmandu (ICIMOD), **Nepal**, from 2-27 August 1993.
 - Oslo, **Norway**, from 5-14 July 1995.
 - Kuala-Lumpur, **Malaysia**, from 5-7 December 1995.
 - Kathmandu (ICIMOD), **Nepal** from 9 January-17 February 1997.
 - Kathmandu, **Nepal**, from 15-19 February 1999.
 - Tokyo (Shonan), **Japan**, from 24-28 June 1999.
 - Athens (Georgia), **USA**, from 23-29 October 2000.

- Kathmandu, **Nepal**, from 15–20 December 2002.
- Chiang Mai, Bangkok, Bangkok, **Thailand**, from 11 – 15 Feb., 2003.
- Manaus, **Brazil**, 10-18 from April 2005.
- Kathmandu, **Nepal**, from 15 – 19 November 2008.
- Cap-Town, **South Africa**, from 12-16 October 2009.
- Tofino, **Canada**, from 9-14 May, 2010.
- Perth (Scotland), **U.K.** of Great Britain, from 26-30 September, 2010.
- Bhumthang, **Bhutan**, from 30May-7th June,2014.
- Perth (Scotland), **U.K.** of Great Britain, from 4-9th October, 2015.
- Kathmandu (ICIMOD), **Nepal**, from 20-23 February, 2017.
- Thailand, Bengkok, 17 – 19th July, 2019.
- Kathmandu (ICIMOD), **Nepal**, from 29-30th August, 2019.
- Israel, Haifa University, from 12-20th March, 2022

24. Success stories Published in 25 Glorious Years of GBPNIHESD

- Rehabilitation of degraded land through agro-forestry and restoration ecology approaches for sustainable development, pp 27-28.
- Nanda Devi Biosphere Reserve: Resolving Policy Conflicts through Participatory Action Research and Model Demonstration,
- Rural technology demonstration and capacity building for Natural resource Management and sustainable Development
- Bio-resource utilization and conservation for Livelihood Enhancement and enterprise development
- Conservation and Sustainable Use of Medicinal Plants through Field based Model Demonstration, Cultivation and Outreach Programme
- Emerging concern of hill agriculture of Uttarakhand: Policy issues and priorities for sustainable development

25. Key Scientific/R&D Achievements and Contributions:

- Model demonstration on degraded land rehabilitation in diverse agro-climatic zones.
- Established participatory action research, demonstration and training centre (Rural Technology Centre) at three locations through external supports.
- Climate change impact – People perception and adaptation strategies in rural landscape of Uttarakhand state and changing scenario of hill agroecosystem (agro biodiversity loss and drivers of change).
- Assessment of socio-ecological vulnerability and coping strategies to natural disaster in Kedar valley.
- Inventorization, conservation and management of belowground biodiversity (macro-meso fauna in Nanda Devi Biosphere Reserve).

- Inventorization of potential wild bioresources (NTFPs) for value addition, livelihood enhancement and micro-macro enterprise development.
- Assessment of policy-people conflict and options for conflicts resolution, biodiversity conservation and socio-economic development – A case study of Nanda Devi Biosphere Reserve.
- Documentation of traditional knowledge related to medicinal plant-based health care systems, food crops and soil fertility maintenance.
- Promoted cultivation of medicinal plants for sustainable use, conservation and income generation.
- Organized more than 280 training/skill development programme and trained 12256 diverse stake-holders in the field of MAPs, bioprospecting, natural resource management and rural technologies.

26. Scientific, technical and policy inputs provided to the Central Govt. and State Govt.

(Uttarakhand):

- Rehabilitation of degraded land using agroforestry and restoration ecological approaches through people participation.
- Appropriate affordable, cost-effective hill specific technologies for rural development.
- Environmental conservation and management – Uttarakhand Environment Protection and Pollution Control Board (UEPPCB).
- Biodiversity Conservation – Uttarakhand Biodiversity Board.
- Uttarakhand State Climate Change Action Plan.
- Organic farming – Uttarakhand Organic Board.
- Hill agriculture – Agro-biodiversity and policy related.
- Rural ecosystem development and disaster affected villages of Kedar valley.
- Status report on “Harnessing the Potential of Seabuckthorn (*Hippophae rhamnoides*) and other wild bioresources.
- Policy-people conflict resolution, biodiversity conservation and socio-economic development - Nanda Devi Biosphere Reserve – A World Heritage Site.

27. New Initiatives undertaken for development of Himalayan region particularly central Himalayan region (Uttarakhand)after joining the Department of Environmental Sciences

- Sustainable use of agro- and wild bioresources
- Promoting and diversifying bioresource based (NTFPs and MAPs) livelihood options through appropriate technological intervention for development of rural landscapes

- Responsible tourism (eco-tourism/nature tourism, rural tourism and agro-tourism) linking with eco-camps/eco-lodges and home stay.
- Valuation of ecosystem services with particular reference to NTFPs and agro-ecosystem and identification of framework for innovative financing mechanism.
- Out-migration: Issues and concerns and identification of potential options to minimize or reverse migration.
- Capacity building and skill development of local people in eco-friendly technologies for natural resource management and livelihood enhancement.



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