

Curriculum Vitae
Dr. Ranjay K. Singh, NFNIF, FCWIS,
Ambassador (Conservation Biology, USA)



Born Azamagarh, Uttar Pradesh (April 20th, 1974)
Nationality Indian
Language known English, Hindi, Russian (not fluent)

Department of Technology Evaluation and Transfer
Central Soil Salinity Research Institute (CSSRI)
Indian Council of Agricultural Research (ICAR)
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Current Position:

Senior Scientist (Agricultural Extension)

Department of Technology Evaluation and Transfer, Central Soil Salinity Research Institute (CSSRI)
Indian Council of Agricultural Research (ICAR), Kachhwa Road, Karnal-132001, Haryana, INDIA

Academic qualifications:

		Subject Specialization
2002 Ph.D.	Jawaharlal Nehru University of Agriculture & Technology Jabalpur, MP, India	Agricultural Extension
2009 CIPR	WIPO, Switzerland	General Course on Intellectual Property Rights
1997 M.Sc.(Ag.).	Allahabad Agricultural Institute (deemed University), Allahabad, UP, India.	Agricultural Extension
1994 B.Sc. (Ag.).	Purvanchal University, Jaunpur, UP, India	Agricultural Sciences

Additional Formal Education:

1998: NET. National Eligibility Test for becoming Assistant Professor, Indian Council of
Agricultural Research, New Delhi, India
2001. PGDCPA. AISECT, New Delhi, India- Computer Application

**Professional Expertise
& Interest:**

- a. Ethno-ecology and biodiversity conservation
- b. Indigenous knowledge and sustainable agriculture
- c. Climate change, indigenous community mobilization and biodiversity conservation
- d. Rural social institutions and community based sustainable natural resource management
- e. Environmental anthropology and biodiversity conservation
- f. Common property resources
- g. Women wisdom, entrepreneurship development and biodiversity conservation and
- h. Intellectual property rights and equitable benefit share over traditional knowledge systems

Skills and Training Through Research and Distinct Programmes: Exploration and studying the dynamics of traditional ecological knowledge systems, establishing traditional village knowledge bank (VTKB), organizing training and workshop on indigenous knowledge and community-based natural resource management, participatory and partnership research management for hill agriculture and natural resources management. Skill in transferring and networking the indigenous knowledge systems through various extension approaches and mass media, writing and editing the traditional practices and networking the traditional knowledge holders. Skill in organizing seminar

on assessing the prior informed consent (PIC) of traditional knowledge holders with regards to finalizing the benefit share over knowledge and genetic resources.

Employment History:

March, 2002- Sep. 2002: Research Associate (Indigenous Knowledge Systems), under the able guidance of Professor Anil K. Gupta, Indian Institute of Management, Ahmedabad, Gujarat, India.

October, 2002 to Dec, 2008: Assistant Professor (Agricultural Extension), Central Agricultural University, Manipur, India.

December, 2008 onwards: Senior Scientist (Agricultural Extension), Department of Technology Evaluation & Transfer, CSSRI, ICAR, Karnal, Haryana, INDIA

Teaching Experience: More than six years of teaching & research experience at College of Horticulture & Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh, India.

Courses taught: Extension Education & Rural Sociology, Rural Agricultural Work Experience, Tribology and Forest Anthropology, Agribusiness Management, Farming System and Agro-forestry, Social Forestry, Biodiversity Conservation and Ecology.

Awards/Rewards/Recognition/Fellowships:

1. **(2002):** Reward of Rs. 80, 000 in 2001 and 2002 from Indian Council of Agricultural Research (ICAR), New Delhi, India for outstanding contribution in the field of indigenous knowledge systems.
 2. **(2005)** Fellow/Scholar of Centre of World Indigenous Study (CWIS), Olympia, USA
 3. **(2007)** National Fellow of National Innovation Foundation (NIF, Ahmedabad, Gujarat)
 4. **(2007)** CANSEE Fellowship, Canada
 5. **(2008)** Fellowship of University of Lille 1, France
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Projects Handled in Lead Role:

1. Exploration of indigenous knowledge systems in different parts of Madhya Pradesh
 2. Identification, characterization and documentation of indigenous knowledge systems associated with agriculture and other natural resources of Arunachal Pradesh.
 3. Traditional foods and women's knowledge systems among tribal communities of Arunachal Pradesh.
 4. Ethnic foods and health of tribal people: Role of local knowledge in biodiversity conservation
 5. Indigenous natural resources management by tribal people of Arunachal Pradesh
 6. Indigenous knowledge systems and grassroots creativity associated with biodiversity & natural resources of North East India
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Professional Research Experience:

International

1. Knowledge networking and reciprocal learning on indigenous technologies (**45 best indigenous practices**) with the **Centre for International Research and Advisory Network (CIRAN) The Hague, The Netherlands**.
2. Networking and sharing the researches on indigenous knowledge systems with **World Bank** and NGOs of **Nigeria** and **Cameroon** working on indigenous knowledge systems for sustainable development.
3. On the various aspects of indigenous knowledge systems, contributed **11 case studies** in response to the notification dated 8th April 2003 and invitation of the Secretariat Convention on Biological Diversity (CBD), UNEP, **Canada** for discussion about intellectual property issues, Article 8 (J) and its implementation.
4. Being an **Associate Scholar (Indigenous knowledge Systems)**, providing research and professional expertise to the Graduate, Post Graduate and Ph. D. Students at **Centre for World Indigenous Studies, Olympia, Washington, USA**

National

1. Establishment of network/non-formal institute on community based biodiversity conservation, IPR protection and community empowerment in the biodiversity hot-spots at Pasighat, Arunachal Pradesh, Northeast India.
2. Contributed **550** indigenous technological knowledge to the Indian Council of Agricultural Research (ICAR) under the Mission Mode Project on **Collection, Documentation and Validation of Indigenous Technological Knowledge**. Out of it, **450** have been published as **Research Inventories** and 2 have been validated by the ICAR, New Delhi in the reference book entitled *Inventory of Indigenous Technical Knowledge in Agriculture, Document II (Supplement I & II)*. Mission Unit, Division of Agriculture Extension, 2003, Pub. DIPA (ICAR), New Delhi. Two validated technologies are:
 - I. Use of *amaltas (Cassia fistula)* fruits in flatulence of animals. *Validation of Indigenous Technological Knowledge in Agriculture, Document III*, Mission Unit, Division of Agriculture Extension, 2003, Pub. DIPA, ICAR, New Delhi P. 308-309.
 - II. Use of *bhangaraiya (Eclipta alba)* to cure the blain in animals. *Validation of Indigenous Technological Knowledge in Agriculture, Document III*, Mission Unit, Division of Agriculture Extension, 2003, Pub. DIPA, ICAR, New Delhi P. 317-318.
2. Contributed more than 600 indigenous practices related to agriculture, animal husbandry, agrobiodiversity, ethnic foods, and human health to **National Innovation Foundation (NIF), Ahmedabad, Gujarat, India** for its Documentation in the National Green Register, Value Addition and Commercialization.
3. Organized a series of biodiversity contest among the school children & rural people and recipe contests among rural women in various parts of Madhya Pradesh and Arunachal Pradesh to create awareness towards biodiversity conservation among them and check the knowledge erosion over the generations.
4. Acted as resource person for designing and implementation of project on ethnic foods of tribal communities and sustainable dependence on forest; and formulated the methodology and instruments for the documentation of tribals' ethnic foods under the project of *Documentation and Testing the Nutritional Status of Tribals' Ethnic Foods*, JNKVV, Jabalpur, MP, India.
5. Guided two M. Sc. Thesis on aspects of indigenous agrobiodiversity conservation and traditional foods and biocultural knowledge systems.
6. Guiding M. Sc. (sustainable energy management from bioresources) of student from University of Utrecht Netherlands about community based economic feasibility and socio-economic impacts of bio-saline agro-forestry systems on salt affected soils in India in Haryana State, India.

Outstanding Performance in Biodiversity Conservation and Livelihood Promotion

1. Given a new concept on village traditional knowledge bank (VTKB) and sustainable development: A bottom to top approach of development in biodiversity hot-spot Arunachal Pradesh, India
2. Mobilized the *Monpa* and *Adi* communities of eastern Himalayas, Arunachal Pradesh in conserving critically endangered tree species *Gymnocladus assamicus* P. C. Kanj. and *dekanj* Pursued conservators of Arunachal Pradesh in getting award of *National Biodiversity Conservation Champion*.
3. Promotion of farmers through the NIF/DST Fellowship to improve income and promote conservation of indigenous biodiversity.
4. Formation and promotion of SHG in various parts of Arunachal Pradesh (Dirnag, Tawang and Pasighat) to promote women knowledge holders through the NIF/DST sponsored Fellowship to improve income through entrepreneurship and promote the conservation of indigenous animals' biodiversity and forest ethnobotanicals.
5. Ensured more than **700** Prior Informed Consents (PIC) signed by traditional knowledge holders to sought out opinion of terms and conditions in deciding the benefit share over traditional knowledge.

6. Mobilized *Adi* women community in forming self help group (SHG) to develop *Siang Nutri* (A local horlics like product- made of indigenous crops produces and ethnobotanicals) and marketise to uplift the women economy.
7. Pursued the various steps in mobilizing community and making them aware about Prior Informed Consent (PIC- a first step of IPR to protect traditional knowledge).
8. Worked with and pursued to National Geographic Channel in making a documentary on biocultural Knowledge of Traditional Communities of Arunachal Pradesh. The work is in the progress.
9. Established **1st Village Traditional Knowledge Bank (VTKB)** of Arunachal Pradesh in East Siang district of Arunachal Pradesh in October, 2008 under the guidance of Professor Anil K. Gupta and Professor S. N Puri, Hon'ble Vice Chancellor, CAU, Imphal, Manipur.
10. Made a documentary film on traditional ecological knowledge and village traditional knowledge bank of *Adi* community, East Siang, Arunachal Pradesh, India in October, 2008.
11. An outstanding work and coordination on bioculturally rich traditional foods at national and international level and its scientific valuation from 2005 to 2008.

Collaborations:

1. National Collaborator of Honey Bee & National Innovation Foundation (NIF, a Body of Department of Science and Technology, Govt of India) Ahmedabad, Gujarat for the Northeast India.

Training Exposure:

1. Twenty one days training on “Advances in Agricultural Extension Research” at Division of Agricultural Extension, Indian Agricultural Research Institute, Pusa, New Delhi, 2003.
2. Twenty one days training on “Partnership Research Management for Hill Agriculture”, ICAR Research Complex, Umiam, Barapani, Meghalaya, 2005.

Training Provided:

1. Provided training to the project investigators, research associates and field investigators on the "Documentation Approach of Tribals' Ethnic food" through a series of lectures under the project on “*Documentation and Testing the Nutritional Status of the Tribals' Ethnic Foods*”, at the University level, JNKVV, Jabalpur, MP, 2001.
2. Provided the leadership and guidance to the project investigators, research associates and field investigators for the development of methodology of documentation of ethnic foods in the workshop, organized by the Department of Food Science and Technology, JNKVV, Jabalpur, MP, 2001.
3. Co-coordinator of the training programme on agriculture and natural resources management in rainfed agroecosystems for the State Subject Matter Specialist under Training and Visit Programme, 2000.
4. Training on conservation of indigenous biodiversity-pulses, millets, cereals, forest based ethnobotanicals (such as *namdung- Pyrilla ocimoides*) and promotion of its products in market to improve the livelihood and income of *Adi* women in November, 2007.
5. Training to *Adi* community on conservation and plantation of culturally and medicinally valuable plant species *dekan* (*Gymnocladus* sp.) in April, 2008.
6. Training on value addition in *namdung* seeds (*Pyrilla ocimoides*) and *aji baying* ethnobotanical and safe fermentation of bamboo shoots for marketization and promoting conservation of indigenous biodiversity in October, 2008.

National Seminar & Workshops Organized:

1. Organized 2 regional and 6 village level of workshops in various villages of Arunachal Pradesh on various issues of traditional ecological knowledge, prior informed consent (PIC) and IPR and benefit share mechanisms arising over

indigenous knowledge systems from 2003 to 2008. (Proceeding is published in *Indian Journal of Traditional Knowledge*)

2. Organized state level of workshop on protection of traditional knowledge/IPR and benefit shares through the prior informed consent (PIC) in 2006. (Proceeding is submitted in *Current Science for Publication*).
3. Organized national seminar on “*Enhancing the TK & Grassroots Innovations’ Exploration, Consensus on Prior Informed Consent and Knowledge Networking among Various Stakeholders*” (29-30th March, 2008).
4. Organized national seminar on “*Community Based Sustainable Natural Resources Management & Development in North-East India*” (26-27 April, 2008).
5. Acted as local coordinator for Ministry of Health, Government of India Sponsored National Workshop on Traditional Herbal Healing Practices of Northeast India held on 10th October, 2008, CHF,CAU, Pasighat, Arunachal Pradesh.
6. Organized National Seminar on Preservation, Protection and Development of Traditional Knowledge Systems in Biodiversity Hotspots of Arunachal Pradesh, Northeast India from 27-28th March, 2009.
7. Organized national workshop on Indigenous People’s consultation and reduction of forest deforestation and degradation (REDD) on biodiversity hot-spot Arunachal Pradesh, Northeast India.

Scholarly Activities:

Selected International Publications: 21

1. **Singh, Ranjay K.** (2000). Uses of *Arush (Adhatoda vasica)* leave for treating, humans, animals and agriculture products. *Indigenous Knowledge and Development Monitor*, 9 (2): 33-34.
2. **Singh, Ranjay K.** (2001). Indigenous knowledge for the pest management of soybean crop. *Indigenous Knowledge and Development Monitor* 8 (1): 29-30.
3. **Singh, Ranjay K.** (2002). Indigenous variety of red gram and tribal farmers’ wisdom. *Local Voice: An International Journal of Local/Indigenous Knowledge and Development*, 1(1):40-55.
4. **Singh, Ranjay K.** (2003). Adaptation and sustainability of indigenous red gram variety: Unidentified farmers wisdom. *Grassroots Voice: An International Journal of Indigenous Knowledge and Development* 4 (1): 15-31.
5. **Singh, Ranjay K.** (2003). Farmers’ experimentation under the rice-wheat based agro-ecosystems. *CIMMYT Rice-Wheat Information Sheet*, New Delhi (47):3-4
6. **Singh, Ranjay K.** & Singh, D. (2003). Indigenous approach to sustainable conservation of agro-biodiversity: Learning from *Bhar* community. *Indigenous Knowledge World Wide*: 2-3.
7. **Singh, Ranjay K.** & Sureja, A. K. (2006). Community knowledge and sustainable natural resources management: learning from the *Monpa* of Arunachal Pradesh. *TD: The Journal for Transdisciplinary Research in Southern Africa*, 2(1). 73-102.
8. **Singh, Ranjay K.** (2007). Tribal’s wisdom and ethnoveterinary practices: A diagnostic study of beliefs of livestock owners and opinions of Veterinary Scientists regarding. *Local Voice: An International Journal of Local/Indigenous Knowledge and Development*, 1(1):61-82.
9. Sureja, A. K., **Singh Ranjay K.**, Bhardwaj, R. Rai, A. K. Singh, D. (2007). Underexploited Vegetables of the *Adi* Tribe of Arunachal Pradesh. Proceeding of 1st International Conference on Indigenous Vegetables and Legumes (M. L. Chaddha *et al.*, eds.). *Acta Horticulture- ISHS*, 187-192.
10. **Singh, R.K.**, Shrivastava, R.C. and Mukherjee T.K. (2009). Community-based sustainable natural resources management and development in Northeast India. *Current Science*, 96 (1), 10:19-21.

11. **Singh Ranjay K.** and Shrivastava R. C. (2009). Biocultural knowledge and *Adi* community: conservation and sustainability in biodiversity hotspot of Arunachal Pradesh. *Current Science* 96, (7):: 883-884.

Research Notes:08

1. **Singh, Ranjay K.** (2001), Scalping *Scalopendra sp.* from the Soybean, *Journal of Honeybee*, 12 (2): 10.
2. **Singh, Ranjay K.** (2001)). Use of *bhelwa* seed for the control of Foot and Mouth Disease in animals. *Indigenous Knowledge World Wide*: 3-4
3. **Singh, Ranjay K.** (2002). Use of the *mahua* flower (*Madhuca indica*) for the human and livestock health management. *Indigenous Knowledge World Wide*: 2-3.
4. **Singh, Ranjay K.** (2002). Ethno-taxonomy and fertility management of soil: An appraisal of farmers' perception and wisdom. *Indigenous Knowledge World Wide*: 3-4.
5. **Singh, Ranjay K.** (2002). Use of mixture prepared from the leaves of *pipal* (*Ficus religiosa*, *Babool* (*Acacia nilotica*)), Guava, and flour of finger millet for the control of Diarrhoea in animals. *Indigenous Knowledge World Wide*: 3-4
6. **Singh, Ranjay K.** (2002). Use of the paste of the *nai* plant with the goat milk to control the effect of paralysis in human beings. *Indigenous Knowledge World Wide*: 3-4.
7. **Singh, Ranjay K.** & Sonara, M. (2003). Nathi Ben, A Dynamic Old Lady: An Anthropological Study of Centurion Women towards Indigenous Knowledge Systems and Biodiversity Conservation. *HoneyBee*, 13 (4): 2&9.
8. **Singh, Ranjay K.** (2004). Conserving Diversity and Culture: Pem Dolma, *Honey Bee* 15 (3): 12-13.

Online Publication with UNEP:

9. **Singh, Ranjay K.** (2003). Composite reports on the status and trends regarding the knowledge, innovations and practices of indigenous and local communities relevant to the conservation and sustainable use of biodiversity. Ad hoc open-ended inter-session working group on article 8 (J) and related provisions of the convention on biological diversity third meeting, Montreal, 8-12 December 2003.

10 Online Publication with World Bank:

Contributed **18 case studies** on indigenous knowledge systems with regards to agriculture, ethno-veterinary practices, ethno-ecology, soil and water conservation and ethnic foods to the **Centre of Indigenous Knowledge Learning for Africa Region, World Bank, Washington, D. C.** These studies are published at the World Wide Web page **References:** World Bank Indigenous Knowledge Database: <http://www4.worldbank.org/afr/ikdb/detail.cfm>.

Selected National Papers: 21

1. **Singh, Ranjay K.** (2001). Ethno-veterinary practices: An appraisal of tribals' wisdom. *J of Asian Agri-History*, 6 (4): 327-331.
2. **Singh, Ranjay K.** & Dwivedi, B. S. (2001). Utilization of location specific indigenous rice for the sustainable agriculture: An appraisal of tribals' wisdom. *J of Asian Agri-History*, 6 (4): 327-331.
3. **Singh, Ranjay K.** Dwivedi, B. S. & Singh, R. (2001). Traditional wisdom of farmers: An experience towards the sustainable development of livestock. *Indian J of Traditional Knowledge*: 70-74
4. **Singh, Ranjay K.** & Dwivedi, B. S. (2002). An investigation into the indigenous knowledge of rainfall prediction. *Indian J of Traditional Knowledge*, 2 (2): 181-188.
5. **Singh, Ranjay K.**, Pyasi, V.K. & Sharma, L. N. (2002). Indigenous knowledge for controlling the pest of soybean crop: An Analysis of resource-poor farmers' wisdom. *Indian Research J of Extension Education*. 2(1): 87-92.

6. Singh, D. & **Singh, Ranjay K.** (2003). Process products of pomegranate. *Natural Product Radiance: A Bimonthly Digest on Natural Products*, 3 (2). 66-68.
7. **Singh, Ranjay K.** (2003). Indigenous agricultural knowledge: An appraisal of farmers; wisdom. *J of Asian Agri-History*, 7 (4): 327-332.
8. **Singh, Ranjay K.** (2004). Organic farming: A case study of creative paddy farmer. *Agriculture Extension Review*:17-22.
9. **Singh, Ranjay K.** & Dorjey, A. (2004). Farming Proverbs: Analysis of their dynamics and farmers' knowledge. *Indian J of Traditional Knowledge* 3(3): 276-287.
10. **Singh, Ranjay K.** & Singh, P. (2005). Fertility management dynamics of soil: Exploration of farmers' hidden wisdom. *Asian Agri-History*, 9(4):291-304.
11. **Singh, Ranjay K.** Singh, D. & Sureja, A. K. (2006). Community knowledge and biodiversity conservation by Monpa tribe. *Indian J of Traditional Knowledge*, 5(4): 513-518.
12. **Singh, Ranjay K.** Sureja, A. K. & Singh, D. (2006). *Amta and Amti (Hibiscus sabdariffa L.)*-Cultural and agricultural dynamics of agrobiodiversity conservation. *Indian J of Traditional Knowledge*, 5 (1): 151-157.
13. **Singh, Ranjay K.** and Sureja, A. K. (2006). Centurion women and diverse knowledge systems. *Indian J of Traditional Knowledge*, 5 (3): 413-419.
14. **Singh, Ranjay K.** Sureja, A.K. (2007). Dynamics of sustainable livestock and natural resources management. *Indian J of Traditional Knowledge*, 6 (4):630-635.
15. **Singh, Ranjay K.** & Sureja, A.K. (2007). Sustainable use of ethnobotanical resources. *Indian J Traditional Knowledge* 6(3) 521-530.
16. **Singh, Ranjay K.** Singh, A. Sureja, A.K. & Tag, H. (2008). Traditional skill among the *Adi* tribes of Arunachal Pradesh. *Indian J Traditional Knowledge* 7 (1) 27-36.
17. Singh, A. **Singh, Ranjay K.** & Sureja, A.K. (2008). *Gekong-Galong*- Traditional weaving technology of *Adi* tribes of Arunachal Pradesh. *Indian J Traditional Knowledge* 7 (1) 87-92.
18. Tag, H. Das, A.K., Pallabi, H. **Singh, Ranjay K.** & Palit, G. (2008). Botanical resources used in traditional wood carving industry among the *Wancho* tribe of Arunachal Pradesh. *Indian J Traditional Knowledge* 7 (1) 148-156.
19. **Singh, Ranjay K.**, Sureja, A. K. & Turner, Nancy J. (2008). Food and cultural values of hidden harvests in livelihood of *Adi* tribe of Arunachal Pradesh. *Indian J of Extension Education*, 2(3), 2008, 30-35.
20. Tag, H., Murtem, G., Das, A. K. & **Singh, Ranjay K.** (2008). Diversity and distribution of ethnomedicinal plants in East Siang District of Arunachal Pradesh, *Pleione*, 3(1): 42-48.
21. **Singh, Ranjay K.** & Sureja, A. K. (2008). Management of indigenous sugarcane under rice-wheat based agro-ecosystem through informal institutions, *Indian J Traditional Knowledge* 7 (3): 469-477.
22. **Singh, Ranjay K** and Singh, A. (2009). Women's wisdom and indigenous human healthcare practices. *Indian Journal of Traditional Knowledge*, 8(2): 146-153.
23. **Singh, Ranjay K** and Singh, A. (2009). Indigenous healthcare practices in vogue among rural women. *Journal of Medicinal and Aromatic Plants Sciences*, 30(4):399-405.

Books, Chapters, Bulletins, Manual & Working Papers:

A. Books:

1. **Singh Ranjay K.** and Mukherjee, T.K. (2008). *Ecoliterary Tools: Methodology and Approaches on Biocultural Knowledge Learning and Conservation*, NISCAIR, CSIR, New Delhi.

2. **Singh Ranjay K.**, Mishra A. K. & Nachan S. V. (2008). *Interfaces of Society and Sustainable Natural Resources Management in Eastern Himalayan Ecosystems: Lessons from Tribal's Indigenous Knowledge Systems*. Pub. By ICAR, Research Complex Barapani, Meghalaya, India, (in press).
3. **Singh Ranjay K.** (2008). *Traditional Foods and Biocultural Knowledge Systems Relating to Health and Nutrition among Adi Women of Arunachal Pradesh*. NISACIR, CSIR, New Delhi (in press).

B. Book Chapters

1. **Singh, Ranjay K.** & Sureja A. K. (2007). Dynamics of traditional knowledge and prior informed consent of conservators of indigenous biological diversity of Northeast India. In: *Natural Resource Management and Sustainable Development in Northeast India* (ed., Ali, Nursad), Mittal Publication, New Delhi, p.p. 75-88.
2. **Singh, Ranjay K.** (2007). Indigenous agricultural knowledge in rainfed rice based farming systems for sustainable agriculture: Learning from Indian farmers. In: Boon, E. K. & Hens L. (eds.), *Indigenous Knowledge Systems and Sustainable Development: Relevance for Africa*, Kamla Raj Enterprises, New Delhi, India, PP. 101-110.
3. **Singh, Ranjay K.**, Dwivedi, B. S. & Pandey A. K. (2007). Adoption of paddy production technologies and its effect on productivity under different farming situations: An agroecosystem analysis, In: *Development Communication in Rural Sector* (Eds., Das Gupta, D., Chowdhury, S. & Mukhopadhyay S. D.). Abhijeet Publications, New Delhi, pp.265-274.
4. **Singh, Ranjay K.** and Sureja, A. K. (2007). Community knowledge and conservation of natural resources: Learning from Monpa tribe of Arunachal Pradesh. In: Arunachalam, A. & Arunachalam, K. (eds.), *Biodiversity Utilization and Conservation*, Avishkar Publishers, Jaipur, India, pp. 198-219.
5. Bhardwaj, R., **Singh, Ranjay K.**, Wangchu, L. and Sureja A.K (2007). Bamboo shoots consumption: Traditional wisdom and cultural invasion. In: Arunachalam, A. & Arunachalam, K. (eds.), *Biodiversity Utilization and Conservation*, Avishkar Publishers, Jaipur, India, pp. 79-82.
6. **Singh, Ranjay K.** (2005). Hidden wisdom about health of the centurion women of Gujarat, India. *Ethnotherapies in the cycle of life*. Herausgegeben, edited by Christine E. Gottschalk-Batschkus & Joy C. Green, Vorwort-Preface: Stanley Kripnner, Ethnomed, Institute for Eynomedicine, Munchen, Germany: 397-406.
7. **Singh, Ranjay K.** & Singh, D. (2005). Indigenous practices and human healthcare in India. *Ethnotherapies in the cycle of life*. Herausgegeben, edited by Christine E. Gottschalk-Batschkus & Joy C. Green, Vorwort-Preface: Stanley Kripnner, Ethnomed, Institute for Eynomedicine, Munchen, Germany: 415-420.
8. **Singh, Ranjay K.** Singh, D. & Wangchu, L. (2005). Fruits diversity in tribal wisdom at the people of Arawali in India. *Ethnotherapies in the cycle of life*. Herausgegeben, edited by Christine E. Gottschalk-Batschkus & Joy C. Green, Vorwort-Preface: Stanley Kripnner, Ethnomed, Institute for Eynomedicine, Munchen, Germany: 437-450.
9. **Singh, Ranjay K.**, Dwivedi, B. S. & Sharma, A. (2002). Ethno-medicine in Central India. *Handbook of Ethnotherapies, Ethnomed*, Institute of Ethno-medicine, Germany: 341-345.

C. Proceedings Edited:

1. **Singh, Ranjay K.** (2008). *Community Based Sustainable Natural Resources Management and Development in Northeast India*, Proceeding of national seminar held at College of Horticulture & Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh India from 26-27th April, 2008, pp: 1-24.
2. **Singh, Ranjay K.** (2008). *Enhancing the Traditional Knowledge (TK) & Grassroots' Innovations' Exploration, Consensus on Prior Informed Consent (PIC) & Knowledge Networking Among Various Stakeholders*. Proceeding of national seminar held at College of Horticulture & Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh India from 29-30th March, 2008, pp: 1-118.

D. Research Bulletins:

1. **Singh, Ranjay K.** (2008). *Conservation o *Gymnocladus assamicus* ex. Kanj. P. C.: A Critically Endangered Tree Species of Northeast India*. Extension Bulletin No. 1, College of Horticulture and Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh India.
2. **Singh, Ranjay K.** & Sureja, A. K. (2006). *Cultural and Agricultural Dynamics Associated with Paisang (*Quercus griffithi*) tree in Monpa Tribe of West Kameng District, Arunachal Pradesh*. Extension Bulletin No. 2, College of Horticulture & Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh India.
3. **Singh, Ranjay K.**, Mishra, A. & Das, and S. K. (2002). Ethno-taxonomy and fertility management Dimensions of soil: An appraisal of farmers wisdom. *A Technical Bulletin, Published from the Division of Agricultural Extension, ICAR, New Delhi* under the Mission Mode Project on "Collection, Documentation and Validation of Indigenous Technological Knowledge, ZC Unit, VII, JNKVV Campus Jabalpur, MP, funded by NATP Project.

E. Working papers:

1. **Singh, Ranjay K.** (2007). *Women wisdom and agrobiodiversity conservation: Dynamics of traditional knowledge systems in Mountain ecosystems of Arunachal Pradesh*, Working paper no. 1, College of Horticulture & Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh India.
2. **Singh, Ranjay K.** (2007). *Dynamics of traditional foods, nutrition, ecosystems and indigenous knowledge among Adi women of Arunachal Pradesh: A source of learning and inspiration*. Working paper no. 2, College of Horticulture & Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh India.

F. Manuals:

1. **Singh, Ranjay K.** (2007). *Biocultural Resources, Traditional Foods, Ethnomedicines, Agrobiodiversity & Natural Resources of Tribal Communities of Arunachal Pradesh: Inspiring Sources for Sustainable Development*, A reference manual, Pub. By College of Horticulture & Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh India.
2. **Singh Ranjay K.** and Sureja, A. K. (2007). *Rural Horticultural Work Experience- Learning with stakeholders: A manual*. Pub. By College of Horticulture & Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh India.
3. **Singh, Ranjay K.** (2001). *Studies on Ethno-medicine For the Human Health: A Resource Manual*, contributed to Dr. Miss. Ezinne Enwereji, College of Medicine and Environmental Studies, State University, Nigeria, Nigeria.

Invited and Presented the Papers (26) on:

1. Indigenous agricultural knowledge for the sustainable development. In National Seminar for Swadeshi Vigyan Mela on "*An Exposition on Indigenous sciences & Technology Innovations and Capabilities*", Organized by the Vigyan Bharti Students for the Development & Bhartiya Marketing Development, held at IIT New Delhi, India from February 2-6, 2000.

2. Traditional wisdom of farmers: An Experience towards the sustainable development of livestock. In National Conference on "*Swadeshi Vigyan: Traditional & Modern Focus: Health, Agriculture, Water.*" Organized by the Vigyan Bharti and National Botanical research, Lucknow, held at NSIT, New Delhi, India from December, 26-28, 2000.
3. Traditional wisdom of farmers: An experience towards the sustainable development of livestock," in the National Conference on "*Swadeshi Vigyan: Traditional & Modern Focus: Health, Agriculture, Water.*" Organized by the Vigyan Bharti and National Botanical research, Lucknow, held at NSIT New Delhi, India from December, 26-28, 2000.
4. A study of the indigenous knowledge for rainfall prediction. In National Conference on "*Swadeshi Vigyan: Traditional & Modern Focus: Health, Agriculture, Water.*" Organized by the Vigyan Bharti and National Botanical research, Lucknow, held at NSIT New Delhi., Dec. 26-28, 2000.
5. An investigation into the indigenous knowledge for rainfall prediction. In the Indian Science Congress on "*Food, Nutrition & Environment Security*" held at the IARI, New Delhi, India, from January 3-7, 2001.
6. Tribals' knowledge: Utilization of location specific indigenous varieties for the sustainable agriculture. In International Conference on *Society, Politics, the Economy and Environment: Implications for Socio-economic Progress in the 21st Century*", Organized by Texas A&M university USA and University of Agriculture Sciences, at Bangalore, India.
7. Ethno-veterinary practices of tribal farmers: An effort towards the sustainable development. In "International Conference on *Society, Politics, the Economy and Environment: Implications for Socio-economic Progress in the 21st Century*", Organized by Texas A&M university USA and University of Agriculture Sciences, at Bangalore, India.
8. People comprehension about scientific technology: A study in the Jabalpur District, Madhya Pradesh. In "International Conference on *Society, Politics, the Economy and Environment: Implications for Socio-economic Progress in the 21st Century*", Organized by Texas A&M university USA and University of Agriculture Sciences, at Bangalore, India.
9. Adaptation and sustainability of ethnic vegetable plants: An appraisal of tribal wisdom. In *National Seminar on Biodiversity conservation* at Jiwaji University, Gwalior, MP. p. 63.
10. Agro-biodiversity and food security in risk-prone agro-ecosystems: An appraisal of tribals' wisdom. *Proceeding on International Symposium on Alternative Approach to Enhancing Small-Scale Livelihoods and Natural Resources Management in Marginal Areas-Experience in Manson Asia*, held at United Nations University, UN, House, Tokyo, Japan: from 29-30 October, 2003: 10 (could not present).
11. Value addition to wild pomegranate fruit: Blending of scientific know-how with grassroots' knowledge. *Proceeding on International Symposium on Alternative Approach to Enhancing Small-Scale Livelihoods and Natural Resources Management in Marginal Areas-Experience in Manson Asia*, held at United Nations University, UN, House, Tokyo, Japan: from 29-30 October 2003: 11 (could not present).
12. Community knowledge and conservation of natural resources: Learning from *Monpa* tribe of Arunachal Pradesh. In National Conference on Arunachal Pradesh: Tradition in Transition, Linking Ecology, Economics and Ethics, NERIST, Nirjuli, Itanagar, Arunachal Pradesh, September, 13-16, 2005.
13. Biodiversity contests: An innovative method to make knowledge dam and conserve biodiversity. *National symposium on changing concepts of forestry in 21st century* held at Dr. Y. S. Parmar University of Horticulture and Forestry, Nauni, Solan, Himanchal Pradesh, India from 21-22nd October, 2005.
14. Dynamics of traditional knowledge and agrobiodiversity conservation in mountain ecosystems of Arunachal Pradesh: A Case Study of Tribal Women's Wisdom. In national workshop on "*Incentives for Supporting On-Farm Conservation, and Augmentation of Agrobiodiversity Through Farmers' Innovation and Community Participation*", organized by Centre for Management in Agriculture (CMA), Indian Institute of Management (IIM), Ahmedabad, Gujarat, India from 27-19th May, 2006.
15. Community knowledge and biocultural diversity of northeast India: Source of learning for sustainable development (as key note speaker). In National seminar on "*Traditional Knowledge Systems and Community Development*", organized by Northeastern Regional Institute of Science and Technology (NERIST), Nirjuli, Itangar from 18-19 August, 2007.
16. Ecoculture and subsistence living of *Monpa* tribal in the eastern Himalayas: An ethnoecological study, In international conference on *Ecological Sustainability and Human Well-being*, organized by International Society of Ecological Economics, held at New Delhi from 16-18 December, 2006.
17. Community based forest management through socio-cultural institutions: Dynamics of biodiversity conservation and subsistence living of *Adi* tribe under subtropical ecosystem in eastern Himalaya. In International conference on "*Sustaining Communities and Development in the face of Environmental Challenges*", organized by CANSEE-2008 from July 27-28, 2007 at Halifax, Nova Scotia, Canada.
18. Ecoculture and subsistence living of *Monpa* Tribal in the eastern Himalayas: An ethnoecological study (as resource person). In: National workshop on "*Criteria and Indicators for Sustainable Forest Management- Learning and Monitoring the Progress*", jointly organized by College of Horticulture & Forestry, CAU, Pasighat and Indian Institute

of Forest Management (IIFM), Bhopal, India held at CHF, CAU, Pasighat, Arunachal Pradesh, India from 29-30th April, 2008.

Key Note Speaker/Resource Persons and Chairman of Various Sessions

1. Rapporteur for *Shodh Yatra* (journey of traditional knowledge learning & exploration) with Professor Anil K. Gupta and Shri Rajendra Singh- Maigsaisey Award Winner of 1998, organized by *Indian Institute of Management, SRISTI and Tarun Bharat Sangha*, in Alwar, Rajasthan in December, 2001.
2. Dynamics of traditional knowledge and prior informed consent of conservators of indigenous biological diversity of Northeast India. In UGC sponsored National Seminar on *Natural Resources and Tribal Communities in North Eastern India* from 7-8th February, 2006 at Jawaharlal Nehru College, Rajiv Gandhi University, Pasighat, Arunachal Pradesh, India.
3. Community knowledge and biocultural diversity of northeast India: Source of learning for sustainable development (as key note speaker). In National seminar on “Traditional Knowledge Systems and Community Development”, organized by Northeastern Regional Institute of Science and Technology (NERIST), Nirjuli, Itanagar from 18-19 August, 2007.
4. Ecocultural edges as a source of biocultural diversity and sustainability in eastern Himalayas: Ethnoecological study (as key note speaker), In National seminar on “*Forest Conservation in Arunachal Pradesh*” organized by Northeastern Regional Institute of Science and Technology (NERIST), Nirjuli, Itanagar on 23rd February, 2008.
5. Invited guest lecture on *Biocultural Dynamics of Bamboo Based Ethnic Foods Consumed by Traditional Communities of Arunachal Pradesh in Eastern Himalaya*” at Indian Institute of Technology (IIT), Delhi on 6th October, 2008.
6. Session Chair of NISCAIR, (Council of Scientific and Industrial Research, CSIR), New Delhi organized national conference on ‘*Intellectual Property Rights, Traditional Knowledge Systems and their Relevance for Sustainable Development*’ to be organized from 24-26th November, 2008.
7. Reapporteur on the subjects of social, demographic and cultural issues in International workshop on “Encouraging conservation and sustainable development in the Indian Himalaya through partnership and participatory governance held at Dehradun, Uttaranchal, India organized by University of Mnaitoba and University of Delhi from 8-9 December 8-9, 2008.
8. Key note speaker on “Traditional knowledge systems in biodiversity hot-spots of Arunachal Pradesh: Conservation of biocultural diversity and protection of intellectual property rights” in the National seminar on *Preservation, Protection and Development of Traditional Knowledge Systems in Biodiversity Hotspots of Arunachal Pradesh, Northeast India* held at Pasighat, East Siang district from 27-28th March, 2009.

Recent abstract published: 13

1. **Singh, Ranjay K.** (2004). Centenarian women and diverse knowledge systems: An exploration of hidden wisdom towards human and animals healthcare. International conference on “*Agricultural Heritage of Asia*”, held at Asian Agri-History Foundation, Secunderabad, Andhra Pradesh from 6-8th December, 2004: 98.
2. Bhardwaj, R. Wangchu, L. Sureja, A. K. & **Singh, Ranjay K.** (2005). Nutritional quality evaluation of ethnic fruits and vegetables. In the National Workshop on “*Capacity Building of Young Scientists for Nutrition Research*”, held at NIPCCD, Guwahati, Assam, India, from 25-28th October, 2005: 20 (presented by Bhardwaj, R.).
Singh, Ranjay K. (2006). Indigenous agricultural knowledge in rainfed rice-based farming systems: Means to sustainable agriculture, Eighth International Conference on Dryland Development, 25-28th February, Beijing, China.
3. **Singh, Ranjay K.** (2006). Traditional knowledge and indigenous agrobiodiversity conservation in mountain ecosystems of Arunachal Pradesh: A case study of tribal’s women wisdom. International symposium “*Towards Sustainable Livelihoods and Ecosystems in Mountainous Regions*” held at Chiang Mai, Thailand, from 7-9th March, 2006: 154.
4. **Singh, Ranjay K.** (2007). Traditional ecological knowledge and socio-cultural institutions in conservation of critically endangered biodiversity: Learning with Monpa community in Eastern Himalaya, Arunachal Pradesh. *The XVth International Conference of the Society for Human Ecology, Local Populations and Diversity in a Changing World*, October 4-7, 2007 Rio-De Janerio, Brazil.
5. Bhardwaj R., Rai, A. K., Wangchu, L., Sureja, A. K. Singh, D., **Singh, Ranjay K.** & Tag H. (2008). Biodiversity of edible wild plants of Arunachal Pradesh and use in maintaining health and nutrition. *Seventh International Food Data Conference, Food Composition and Biodiversity*, October 21, 2007, at Peru, Brazil: 27. (Paper was presented by Bhardwaj, R.)
6. **Singh, Ranjay K.**, Pilgrim, S. & Pretty, J. N. (2008). Community knowledge and biocultural diversity: Sociocultural treasures of learning for sustainable development. International Conference on *Sustainable Development Twenty Years On*, Lille France, November, 20-22nd, 2008).
7. **Singh, Ranjay K.** (2008). “Biocultural Resources and Traditional Food Diversity of Adi Community of Arunachal Pradesh: Learning and Lessons from Traditional Women on Sustainable Use of Food and Living in Eastern Himalaya”. An International Conference “*Creating Values for Sustainable Development: Sustainable Consumption & Lifestyles*”, organized by The University of Applied Sciences, Northwestern Switzerland, School

of Business, in association with the University of Basel, Program Sustainability Research in Basel from August 21st / 22nd, 2008.

8. **Singh, Ranjay K.** (2008). Women wisdom and agro-biodiversity conservation: Dynamics of traditional knowledge systems in mountain ecosystems of Arunachal Pradesh. An International conference on “*Applying Ecological Economics for Social and Environmental Sustainability*”, organized by International Society of Ecological Economics, at Nairobi from 14th to 18th August, 2008. Ref. https://www.ecoeco.org/conference08/abstracts_view_detail.php.
9. Bhardwaj, R. **Singh, Ranjay K.**, Singh, A. Upadhyay, S. & Devi M. (2008). Nutritionally rich wild vegetable of tribal communities of northeast India: Learning and lessons about traditional biocultural resources. In International symposium on “*Underutilized Plant Species for Food, Nutrition, Income and Sustainable Development*” held at Ngurdoto Mountain Lodge, Arusha, Tanzania from 2-8th March, 2008: 49. (Paper was presented by Bhardwaj, R.)
10. Singh, A., **Singh, Ranjay K.** & Bhardwaj, R. (2008). Sustainable utilization of wild ethnobotanicals for food, nutrition and livelihood security: A case study of *Adi* women in eastern Himalaya, Arunachal Pradesh, Northeast India. International symposium on “*Underutilized Plant Species for Food, Nutrition, Income and Sustainable Development*” held at Ngurdoto Mountain Lodge, Arusha, Tanzania from 2-8th March, 2008: 145. (Paper was presented by Bhardwaj, R.)
11. Bhowmik, S. N., **Singh, Ranjay K.** & Bhardwaj, R. (2008). Effect of low temperature and ultra-violet radiation on the population of yeast in some traditional foods beverages of *Adi* tribe of Arunachal Pradesh, India. In International 21st Conference of ICFMH on “*Food Micro*” to be held at Aberdeen, Scotland from September 1st-4th, 2008.
11. **Singh, Ranjay K.** & Turner, N. J. (2008). The *Adi* community and indigenous knowledge: cultural significance of biodiversity conservation in eastern Himalayan ecosystem. Accepted for a National seminar on “*Traditional Knowledge Systems and Protection of Intellectual Property Rights*”, to be organized by NISCAIR, CSIR, New Delhi, from 24-26 November, 2008.
12. **Singh, Ranjay K.** (2008). Indigenous grazing, rangeland utilization and livestock management strategy by *Brokpa* pastoralists of Arunachal Pradesh. Accepted for a National seminar on “*Traditional Knowledge Systems and Protection of Intellectual Property Rights*”, to be organized by NISCAIR, CSIR, New Delhi, from 16-18 November, 2008.
13. **Singh, Ranjay K.** (2009) Recipe contest among rural *Adi* women: Innovative method to enhance conservation of biocultural diversity. Society of Ethnobiology, 32nd Annual Conference, Food: Crops and Noncrops, held at Tulane University, New Orleans, Louisiana from April 1-4, 2009.

Research Articles Reviewed:

As a referee, reviewed scholarly publications for the Journal of *Human Ecology* (Springer Press), *Environmental Conservation* (Society of Environmental Conservation, UK) and *Indian Journal of Traditional Knowledge* (CSIR), New Delhi. Beside, various book chapters have been reviewed for the publication of a book on *Controversies in Food and Agricultural Marketing*, produced by Grover Press, UK

Research Project Reviewed:

Reviewed DBT sponsored research project on bio-fuel and empowerment of SC/ST women of South India in October, 2008.

Fellow, membership and expert of different scientific and professional Societies/organizations:

1. Ambassador, Society of Conservation Biology, Social Science working group (SSWG), USA
2. Fellow of Centre for World Indigenous Studies, Olympia, USA.
3. Fellow of National Innovation Foundation (NIF), Ahmedabad, Gujarat, India (2007-2008)
4. International Association for Studying the Common Property and Natural Resources, U. K.
5. Expert of NISCAIR (CSIR, Govt. Of India) committee on dissemination on information on science and research
6. Member of Indian Society of Extension Education, IARI, New Delhi
7. Member of Society of Extension Education, Akola, Maharashtra
8. Member of Madhya Society of Extension. Education, JNKVV, Jabalpur, MP.
9. Member of Society of Extension Education, TNAU, Tamil Nadu

References:

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3. **Professor Nancy J. Turner**, School of Environmental Studies, University of Victoria, PO Box 1700, Victoria, B C. Canada, V8W 2Y2. (Ph) 250-721-6124, (Fax) 250-721-8985. E-mail:nturner@uvic.ca

All the information and facts stated above are true to my knowledge and belief.

Place: Karnal, Haryana, INDIA

Date: 09-05-2009



(Ranjay K. Singh)