

# Biography

## Devendra Gauchan, PhD

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### Summary

**Devendra Gauchan, PhD** is a leading agricultural and food system expert in Nepal with experience and expertise in agroecology, agrobiodiversity, agriculture R&D, climate resilient agriculture, agricultural markets & value chains and agricultural policy. He has worked as a researcher, co-investigator, project manager, visiting research fellow and policy expert both in Nepal and overseas CGIAR research centers in agriculture & food security, agrobiodiversity and natural resource management for the last 30 years. He has technically contributed to the drafting of some important national policies in agriculture, agrobiodiversity, agroecology, food systems and natural resource management in Nepal. Since July 2024, he has been involved as a policy expert and leading in drafting of “Agroecology Roadmap of Nepal” under Regional Himalayan Agroecology of the World Food Council and IFOAM Organic International. He is currently serving as Agroecology Specialist at International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal to scale Agroecology for Sustainable Food Systems Transformation in Hindu Kush Himalayan Region.

He has served previously as Food System Technical Expert in National Planning Commission (NPC) of the Government of Nepal and the UN World Food Program (WFP), Nepal in the design of multistakeholder dialogue and contributed to drafting background report of “Nepal’s Food Systems Transformation: Pathways and Actions” submitted to United Nation in September 2021 and contributed to preparation of the “Strategic Plan for Food System Transformation of Nepal (2022/2025-2029/30)”. He was one of the lead members to draft “National Seed Vision of Nepal (2013-2025)” and “Strategic Framework for Nature Conservation for Sustainable Development (2015-2035)” of Nepal including Agrobiodiversity Policy (2007 revised in 2014) and engaged in several national policy discussions and providing inputs to formulation of policies and strategies in agriculture, food systems and natural resource management in Nepal. Dr. Gauchan is actively involved in policy research, analysis and advocacy for the resilient and sustainable transformation of agrifood systems with specific focus on mountain region of Nepal and South Asia/HKH region.

### Academic Qualifications

He holds a PhD Degree in Agriculture and Resource Economics from the University of Birmingham, United Kingdom in 2004 under EU fellowship and post-doctoral study in Agricultural Economics under Bill & Melinda Gate Foundation Fellowship from the International Rice Research Institute, Philippines in 2008-2011. He completed his MS in Agricultural Systems (majoring Agricultural Economics) from the University of Chiangmai, Thailand in 1994 under Winrock and Ford Foundation fellowship, USA and BSc Agriculture under Colombo Plan from the University of Agricultural Sciences, Bangalore, India, in 1985. He has also completed post-graduate Diploma in Development Oriented Research in Agriculture from the International Centre for Development Research in Agriculture (ICRA), the Netherlands in 1997-1998.

## **Current Academic Affiliation**

He is currently serving as an Adjunct Professor (Agricultural Economics), at Tribhuvan University, Institute of Agriculture and Animal Sciences (IAAS), Kathmandu and Policy Lead and Senior Research Fellow in Agriculture Economics and Biodiversity, at Institute of Integrated Development Studies (IIDS)-an Independent Policy Think Tank, Kathmandu, Nepal. He is also currently Agroecology Specialist at International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal and also serves as a Senior Thematic Expert in Natural Resource & Technology Policy at the Policy Research Institute (PRI)-a Think Tank of the Government of Nepal, Kathmandu and thematic Expert member of the University Grant Council (UGC), Tribhuvan University, Kathmandu. He is also serving as an Advisor (Agricultural Economist and Biodiversity Policy Specialist) of the Raffaella Foundation, USA for the South/Southeast Asia & Pacific region, and Honorary Senior Research Fellow for Australia based Nepalese Professionals in Agriculture, Natural Resources and Environment (NEPAFE). He serves as a member of the Advisor Group in Socioeconomics and Policy in Organic Agriculture at Madan Bhandari University Sciences and Technology (MBUST), Chitlang, Makawanpur, Nepal including thematic expert (Agricultural Economics, Marketing and Statistics) member for the Public Service Commission of the Government of Nepal and a Member of the Agroecobiodiversity Technical Advisory Subcommittee, Ministry of Agriculture and Livestock Development (MoALD), Government of Nepal (2016-2025). He is one of the founder members and currently serving as the President of Nepal Agricultural Economics Society (NAES), Kathmandu, Nepal.

## **Past Academic Experiences**

Previously from 2015-2024, he served as Honorary Research Fellow and the National Project Manager at the Alliance of Bioversity International and International Centre for Tropical Agriculture (CIAT)-a CGIAR centre based in Nepal office for the GEF/UNEP and other some agrobiodiversity, seed system and resilient agrifood system related projects in Nepal Himalayas. He successfully coordinated and provided technical leadership in the successful implementation of multidisciplinary and multi-institutional projects in Nepal Himalayas with NARC, LI-BIRD and Department of Agriculture, in agrobiodiversity conservation, market and value chain development of traditional crops, community seed banks, genetic resource policy and participatory crop improvement funded by the Global Environment Facility (GEF) / UN Environment, IFAD, SDC, Dutch and other donors.

From 2005-2015, he was a Senior Scientist & Head of Socioeconomics & Agri-Research Policy Division of Nepal Agricultural Research Council (NARC), Kathmandu, Nepal and played proactive role in the establishment and operationalization of Socioeconomic and Policy Research Division (now National Agriculture Policy Research Centre) in NARC to implement and coordinate overall socioeconomic, marketing and policy related research projects and activities of NARC in Nepal. He was instrumental in developing research partnership with international CGIAR centers and national R & D agencies to implement multidisciplinary technology evaluation, adoption, marketing, seed system, climate change, and natural resource management projects in NARC, Nepal. He coordinated formulation of donor funded Mega Research Projects and contributed to formulation of research strategies, policies, programs of NARC and Nepal. He served as a junior scientist from 1994-2004 in NARC, Khumaltar, Lalitpur and carried out several research projects related to technology adoption, socioeconomic and market assessment and impact of agriculture R&D in Nepal.

## **Expert Services in Policy Drafting**

He has contributed to the drafting of some important national policies related to agroecology, agriculture, agrobiodiversity, food systems and natural resource management in recent decade in Nepal. Since July 2024, he has been involved as a policy expert and leading in drafting of "Agroecology Roadmap of Nepal" under Regional Himalayan Agroecology Initiative with the funding support of the World Food Council and IFOAM Organic International and coordinated in Nepal by LI-BIRD in partnership with the MoALD of the federal government of Nepal. The roadmap is at final stage of drafting to be completed by the end of September 2025. The proposed Roadmap aims to transform current unsustainable agricultural practices into resilient and sustainable agrifood systems by designing strategic

direction and action plans to adapt and mitigate the impact of triple planetary crisis of climate change, biodiversity loss and pollution and build food sovereignty of the people and protect agroecosystem and human health in Nepal.

He has worked as food system expert (Biodiversity and Climate Resilience) in National Planning Commission (NPC) of Nepal in 2021 and contributed to the preparation of UN Food System Transformation: Pathways and Action Report of Nepal. He also contributed to the NPC of Nepal in drafting of “Strategic Plan of Food System Transformation (2024/25-2029/30) in 2022-2023. He has also worked in UN World Food Program (WFP), Nepal in 2024 (July-December) to support synthesizing progress outcome of food system activities of different Government agencies and development partners and supporting technically in successful accomplishment of the 5<sup>th</sup> National Multistakeholder Dialogue on Food Systems in Nepal on December 17, 2024. He was one of the key team members to draft Nepal's 'National Seed Vision 2025' in 2012-13 and was a lead coordinator in Agriculture theme in drafting of NPC led “National Strategic Framework of Nature Conservation for Sustainable Development (NSFNCSD)” of Nepal in 2013-14 including Agrobiodiversity Policy (2007 revised in 2014) and engaged in several national policy discussions and providing inputs to formulation of national policies / strategies in agriculture, food systems and natural resource management in Nepal.

## **Experience in South Asia and Hindukush Himalayan Region**

He has worked and collaborated with multidisciplinary and multicultural team in Nepal and other parts of South Asia /Hindukush Himalayan region in agrobiodiversity, seed system, food security, agricultural value chain, trade and policy research. The important ones are:

- Collaborated and led from the Bioversity International, Nepal office with Lanzhou University, China (Prof Zhanhuan Shang) for “Evaluation of Biodiversity Change's Impact on Carbon Pool and Livelihood Benefit in Southern Himalayan region” (2020-2024) and published a co-edited CABI Book “Ecological Conservation and Livelihood Development in HKH region in 2024”.
- Contributed to the Initial Assessment of One Country One Product (OCOP) Pilot Project Prototype Implementation in South Asia focusing on Bhutan (Quinoa) and Sri Lanka (Red Rice) from the Alliance of Bioversity International & CIAT (July 2022- February 2023)
- Served as technical Expert for South Asia in Rapid Food Security Assessment Survey (to assess impact of Russia Ukraine war) from June 2023 to February 2024 led by IDACA (Institute for the Development of Agricultural Cooperation in Asia) Japan funded through International Grain Council (IGC), UK.
- Served as a Postdoctoral Fellow (Agricultural Economist) in IRRI for South Asia and led a large multi-country Socioeconomics Assessment of Rice Technology Adoption in South Asia (Bangladesh, Eastern India and Nepal) in Stress Tolerant Rice Varieties for South Asia (STRASA) Project (2008 - 2011).
- I have contributed as a technical expert and researcher in several South Asia Regional Policy Dialogue and Technical Fora in Seed Systems, Agrobiodiversity Policy, Food Security & Nutrition, Agricultural Value Chains & Trade and Family Farming (UNDFF) led by FAO, IRRI, IFPRI, SAC (SAARC) etc.

## **Collaborative Research Investigator, Resource Person and Visiting Fellow**

From 2012-2019, he had served as a Co-principal Investigator (Agriculture) in Policy Science, Health, Agriculture and Nutrition (POSHAN) project in Nepal for a study to link Agriculture to Nutrition-Resilience Pathways led by Johns Hopkins University and Tufts University USA under USA Nutrition Innovation Lab in Nepal and contributed actively to linking agriculture with nutrition and climate resilience as pathway for sustainable development. He has been serving as a resource person in some international initiatives mainly for “agriculture value chain and market” in “Summer Field School [Online] on Mountain ecosystems and Resource Management” of Grass roots Institute, Canada for the last 4 years, and economics of agrobiodiversity in “International Summer School on Agrobiodiversity and Climate Change” led by FAO Mountain partnership program, Sapienza University and Bioversity International, Rome, Italy for the last 9 years (2017 to 2025). He also participated and worked with ICIMOD in some of the past initiatives including documentation of high value agriculture in Nepal in 1997-98 in then Mountain Farming System Division of ICIMOD, development of

“Millet Policy Brief” for Nepal in 2023 and a recent “Agroecology as an approach in building resilience and sustainability in Mountain food systems Workshop in Surkhet, Karnali Province, Nepal in March 2025.

He was a Visiting Fellow, at Lanzhou University, Lanzhou, China in 2023 and Sapienza University, Rome, Italy in 2017, a PhD Research Fellow at International Food Policy Research Institute (IFPRI), Washington DC, USA in 2003 and a Visiting Science and Technology Fellow in National Research Institute of Agricultural Economics (NRIAE), Ministry of Agriculture, Forestry and Fishery (MAFF), Tokyo, Japan in 1997-1998.

### **Journal /Book Editor and Reviewer:**

I have served as one of the Editors of “Springer Book” published in 2022 entitled “Agriculture, Natural Resources, and Food Security: Lessons from Nepal” and “CABI Book” on “Sustainable Ecological Restoration and Conservation in the Hindu-Kush Himalayan Region” 2024. I have also served as a member of Editorial Board of Agricultural Development Journal (2005-2008), Nepalese Journal of Agricultural Economics (2012-2014), Agronomy Journal (2020-2021) and also served as peer reviewer of some national and international Journals, such as “Agricultural System”; Agriculture and Food Security”, “PLOS ONE”; Rice Science”, “Outlook”; “Asian Journal of Agriculture and Development” The Journal of World Intellectual Property Rights”, and some other related agriculture, food security and natural resource management National Journals in Nepal.

### **Graduate Students and Other Research Supervisions**

I have supervised a dozen graduate students (PhD and MSc) for their academic graduate thesis research in agricultural economics, food security, climate resilient agriculture and agriculture policy in IAAS, Tribhuvan university and Agriculture and Forestry University of Nepal including few foreign students from overseas Universities. I am serving as reviewer and evaluator of agricultural economics, rural development and natural resource management related research projects of NARC, Universities and overseas research institutes (e.g. International Foundation of Science, Agropolis Foundation France) including external graduate student thesis research for the last two decades. I have participated in and presented papers and served as speakers and panelists in several International and National Conferences on agrobiodiversity, agroecology, agricultural economics & policy, agricultural value chain and trade, food security, natural resource management, physically and digitally over the last two and half decades. I have published over 100 research papers (including book chapters, journal papers, proceedings) which are listed below.

### **Awards and Fellowships**

- Received “**International Foundation of Science (IFS)**” fellowship (2007-2008) for the Economic valuation of native animal biodiversity conservation research in the Mountains of Nepal
- “**Visiting Science and Technology Agency (STA)**”, Fellow (August-October 1998), National Research Institute of Agricultural Economics (NRIAE), Ministry of Agriculture, Forestry and Fishery, Tokyo, Japan
- **Post Graduate Fellowship** in Agriculture Research for Development (ARD) at International Centre for Research in Agriculture (ICRA), in the Netherlands (March 1997- August 1997). Coordinated interdisciplinary field studies in multinational and multicultural team in western Wollega region of Ethiopia for 3 months.
- Received **Outstanding Scientist Award** for Agricultural Research in Socioeconomics and Policy Research in Nepal Agricultural Research Council (NARC) from then Prime Minister of Nepal in 2012
- Received **King Mahendra Vidhya Bhusan Gold Medal** in 2005 from then King of Nepal in PhD accomplishment in Agricultural Sciences (Agricultural Economics)

### **Language Skills**

- English: Proficient in reading, writing, and speaking.
- Spanish: Modest in reading and slight skills on speaking
- Hindi: Good in reading, writing and speaking.
- Nepali: Native speaker, excellent in reading and writing

## **Important Publications**

1. Dhungana J, **D. Gauchan**, HK Panta and KP Timsina. 2025. Typology and Characterization of Dairy Cattle Farms in Nepal. *Nepal Agriculture Research Journal* 16(1): 12-25. DOI: <https://doi.org/10.3126/narj.v16i1.80430>
2. Neupane, S.P., Joshi, B.K., Ayer, D. Karki, A., Ghimire, K.H., **Gauchan, D.**, Mengistu, D.K., Ceccarelli, S., & Grande S. (2025). Dynamic Mixtures Reduce the Eeverity of a Number of Diseases in Rice and Bean in Low-Input Mountain Farming Systems of Nepal. *Euphytica* 221, 91 (2025). <https://doi.org/10.1007/s10681-025-03488-6>
3. **Gauchan, D.**, S.R. Ghimire and S., Neuapane, 2024. Nepal's Export Trade to Australia: Status and Potentials. Manuscript. Embassy of Nepal, Canberra, Australia, July 2024. <https://au.nepalembassy.gov.np/nepals-export-to-australia-status-and-potential>
4. Dhungana J. **D. Gauchan**, K.P. Timsina, H.K. Panta 2024. Insight into Policy Provisions and their Gaps for Dairy Sector Development in Nepal. *Journal of Agriculture and Food Research. Vol (16)*. <https://doi.org/10.1016/j.jafr.2024.101134>
5. Joshi, B.K., R.K. Shrestha, R. C. Khanal & **D. Gauchan**. 2024. Agroecosystem-based Agricultural Genetic Resources for Balanced and Diversified Food, Nutrition, Health, Business, Geographical Indication and Environment, *Agroecology and Sustainable Food Systems*, DOI: 10.1080/21683565.2024.2389289
6. Shang Z., A. Degen, **D. Gauchan**, M. Koirala, M. Khalid Rafiq. 2024. *Sustainable Ecological Restoration and Conservation in the Hindu Kush Himalayan Region*. A Comprehensive Review. Book. CABI International, Wallingford, UK.
7. Pokharel, B. K.; Nepal, S.; Baral, S.; **Gauchan, D.** et al. 2024. An Analysis of the Water, Energy, Food and Ecosystem (WEFE) Nexus for Nepal. Colombo, Sri Lanka: International Water Management Institute (IWMI). CGIAR Initiative on NEXUS Gains. 84p. <https://hdl.handle.net/10568/173049>
8. **Gauchan, D.**, K.P. Timsina and S. Gairhe. 2023. Scenario of Domestic and Foreign Trade of Millets in Nepal. *Millet's traditions, science and technology in Nepal* (BK Joshi, RK Shrestha, KH Ghimire, HB KC, and A GC; eds). A Compendium NAGRC, CCDABC & FAO; Kathmandu, Nepal.
9. **Gauchan, D.** 2023. IPR and Agri Business: Challenges and Opportunities for South Asia. A Keynote Paper presented in the International Conference on "IPR and Development of SMEs" held from 6-7 March 2023, Hyderabad, India. Manuscript, National Institute for SME (ni-msme), Hyderabad, Government of India.
10. Timsina, K.P., **D. Gauchan**, S. Basi, M. Jaishi, S. Pandey, 2023. Policy Provisions and Implementation of Seed Technology Research, and Innovation in Nepal. *Nepal Public Policy Review* DOI: <https://doi.org/10.59552/nppr.v3i1.58> Vol 3, Issue 1,
11. Timsina, K.P., **D. Gauchan**, S. Gairhe et al. 2023. Rice demand and production projections for 2050: Opportunities for achieving self-sufficiency in Nepal. *Nepal Agriculture Research Journal* Vol. 15, No. 1, pp. 163-180, 2023 DOI: <https://doi.org/10.3126/narj.v15i1.519>
12. Joshi, B.K., **Gauchan, D.**, Chaudhary, P., Aryal, K., and Shrestha, R.K. 2023. The Drivers of Change in the State of Agrobiodiversity. *Agrobiodiversity & Agroecology*. Grassroots Journal. 03(01); 28-53.
13. Neupane, S.P.; Joshi, B.K.; Ayer, D.K.; Ghimire, K.H.; **Gauchan, D.**; Karkee, A.; Jarvis, D.I.; Mengistu, D.K.; Grando, S.; Ceccarelli, S. 2023. Farmers' Preferences and Agronomic Evaluation of Dynamic Mixtures of Rice and Bean in Nepal. *Diversity* 2023, 15, 660. <https://doi.org/10.3390/d15050660>
14. Joshi, B.K.; Ghimire, K.H.; Neupane, S.P.; **Gauchan, D.**; Mengistu, D.K. 2023. Approaches and Advantages of Increased Crop Genetic Diversity in the Fields. *Diversity* 2023, 15, 603. <https://doi.org/10.3390/d15050603>
15. Jaishi, M., G.P. Sharma, P.B. Nepali, **D. Gauchan**, R.K. Shrestha, K.P. Timsina, H. Neupane. 2023. Government Framework for Agriculture Service Delivery at the Local Level in Nepal. *Nepal Public Policy Review*. 3 (1); 20-25.

16. Bhusal A., Pudasaini, N., Neupane, S.P., Shrestha, R.K. Shrestha, **Gauchan, D.** and Pandey, S. 2023. Training Manual on Agrobiodiversity and Farmers' Rights. Local Initiatives for Biodiversity, Research and Development (LI-BIRD), Nepal <Training Manual Agrobiodiversity and Farmers Rights\_4 July\_Final.pdf>
17. Timsina, K, **D. Gauchan**, and J. Lamichhane, 2022. Import and export issues of agricultural commodities and inputs: Status, Challenges and Prospects. Proceed. Paper "National Symposium on Major Agricultural Inputs Supply and Subsidy Mechanism in Nepal" organized by Salt Trading Company Ltd, Nepal. 6-8 April 2022
18. Panta, H.K., P. P. Regmi, G. B. K.C. , **D. Gauchan** , H. Bhandari. 2022. Economics of Cereal and Vegetable Crops under Organic and Conventional Production Systems in Nepal. *Agricultural Extension Journal* 2022; 6(3):68-75. [www.aextj.com](http://www.aextj.com)
19. **Gauchan, D.**, K.P., Timsina, and R.K. Shrestha 2022. Strengthening Research-Extension-Education Linkage for Sustainable Agri-Food System Transformation in Nepal. Thematic Paper. Proceeds of Conference on Strengthening Linkages among Research-Extension-Education for Effective Service Delivery System in Nepal-13-14 June, 2022. Department of Agriculture and Nepal Agri Extension Association, Kathmandu, Nepal.
20. **Gauchan, D.**, K.P. Timsina, S. Gairhe, J. Timsina and K.D. Joshi, 2022. Cereal Demand and Production Projections for 2050: Opportunities for Achieving Food Self-Sufficiency in Nepal. In: *Agriculture, Natural Resources, and Food Security: Lessons from Nepal* (J. Timsina, T.N. Maraseni, D. Gauchan, J. Adhikari and H. Ojha eds). NEPAFE, Springer Nature Book, Sydney .x285.
21. Pandey, I.R, M. B. Thapa and **D. Gauchan**, 2022. Fruits and Vegetables for Food and Nutrition Security and Income Generation in Nepal. In: *Agriculture, Natural Resources, and Food Security: Lessons from Nepal* (J. Timsina, T.N. Maraseni, D. Gauchan, J. Adhikari and H. Ojha eds). NEPAFE, Springer Nature Book, Sydney .x285.
22. Neupane S.P., B. S. Shrestha and **D. Gauchan**. 2022. Livestock Contribution to Food and Nutrition Security in Nepal. In: *Agriculture, Natural Resources, and Food Security: Lessons from Nepal* (J. Timsina, T.N. Maraseni, D. Gauchan, J. Adhikari and H. Ojha eds). NEPAFE, Springer Nature Book, Sydney .x285.
23. De Falcis E, **D. Gauchan**, R. Nankya, S. Martinez Cotto, DI, Jarvis, L. Lewis and P., De Santis. 2022. Strengthening the Economic Sustainability of community seed banks. A Sustainable Approach to Enhance Agrobiodiversity in the Production Systems in Low-income Countries. *Frontiers in Sustainable Food System*. 6:803195. doi: 10.3389/fsufs.2022.803195
24. Pandit, J, P.P. Regmi, G.B. K.C., B. Paudel, **D. Gauchan**, 2021. Willingness to pay for Pesticide-Safe Vegetables in Nepal. *International Journal of Environment, Agriculture and Biotechnology* Vol-6, Issue-5; Sep-Oct, 2021: <https://ijeab.com>
25. Pandit J., Y.K. Karki, **D. Gauchan** and B. Paudel, 2021. Safe Food Production Regimes and Potentiality of Integrated Multi-level food Certification System in Nepal. *The Journal of Agriculture and Environment* Vol:22, June
26. **Gauchan, D.** and R. Shrestha. 2021. Improve Socio-Economic Inclusion, **Resilience** and Wellbeing of Family Farmers, Rural Households and Communities in South Asia. Chapter 6. Regional Action Plan of the United Nation Decade of Family Farming (UNDFF). Formulating Strategies and Action Plans to Strengthen Family Farming in South Asia, SAARC. Agricultural Center, Dhaka, /FAO, Regional Office, Bangkok (In press).
27. Pokharel, P. D. Dhakal, **D. Gauchan**, H.K. Panta and R.P. Mainali. 2021. Impact of climate change on rice production: an empirical study in Kaski and Nawalparasi, Nepal. *Journal of Agriculture and Natural Resources* (2021) 4(1): 79-86.
28. Gairhe, S., **D. Gauchan** and K. Timisina. 2021. Prospect and potentiality of finger millet in Nepal: Nutritional security and trade perspective. *Journal of Agriculture and Natural Resources* (2021) 4(2): 1-14.
29. **Gauchan, D.**, BK, Joshi, S. Sthapit and D. Jarvis. 2020. Traditional crops for household food security and Factors associated with on-farm diversity in the mountains of Nepal. *The Journal of Agriculture and Environment* Vol. 21, 31-43.

30. **Gauchan, D.** and R. Shrestha, 2020. Community Based Seed Systems for Agrobiodiversity and Resilient Farming of Smallholder Agriculture in South Asia. Thematic Regional Perspective Paper. Chapter-2. In: Strengthening Seed Systems: Promoting Community Based Seed Systems for Biodiversity Conservation and Food & Nutrition Security in South Asia (Shrestha, R.B., Penunia, M.E., Asim, M., eds. 2020). SAARC Agriculture Centre & AFA, Philippines, Bangladesh. p 29-54.
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32. Joshi BK, **D. Gauchan**, S Sapkota, K. Poudyal, KH Ghimire and DMS Dangol. 2020. Germplasm Rescue and Rebuilding Local Seed Systems in Red Zone Areas. *Journal of Agriculture and Natural Resources*. 3(2): 9-20
33. Shrestha, R and **D. Gauchan**, 2020. Agribusiness Competitiveness of Smallholder Agriculture for Structural Transformation in South Asia. SAC Policy Brief: 13/PSPD/01, September 2020. SAARC Agriculture Center, Dhaka, Bangladesh.
34. **Gauchan, D.**, BK Joshi, B Bhandari, N Pudasaini, R. Gurung, K. Ghimire and KK. Mishra, 2020. Incentive Measures for Agrobiodiversity Conservation and Use. In: Good Practices for Agrobiodiversity Management (Joshi BK, D Gauchan, B Bhandari and D Jarvis, eds) NAGRC, LI-BIRD and Bioversity International; Kathmandu, Nepal, P 35-39.
35. Joshi BK, **D. Gauchan** and B. Bhandari, Eds. 2020. Good Practices for Agrobiodiversity Management. NAGRC, LI-BIRD, and the Alliance of Bioversity International and CIAT, Kathmandu, Nepal. Book p 154.
36. Chaudhary, P., Upadhyaya, D., Dhakal, B., Dhakal, R., & **Gauchan, D.** 2020. Generation, Gender and Knowledge Gap in Agrobiodiversity Among Smallholders in Nepal. *Journal of Agricultural Science*; Vol. 12 (9); 62-73..
37. Kaphle, B.D., Y. S. Bajgai, B.P. Khatriwada, Y. Ghale and **D. Gauchan**, 2020. Food Security Status and Challenges in Nepal: Policy Options and Choices. Book Chapter 1: "Sustainable, Sufficient, Safe and Healthy Food in Nepal: Principles and Practices of Food Security". Nepalese Agricultural Professionals America (NAPA), USA.
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39. Joshi, B.K., R. Shrestha, **D. Gauchan** and A. Shrestha. 2019: Neglected, underutilized, and future smart crop species in Nepal, *Journal of Crop Improvement*, DOI: 10.1080/15427528.2019.1703230
40. **Gauchan, D.** and BK Joshi, 2019. Seeds Without Borders Initiative for Enhanced Food and Nutrition Security in South Asia. In: PR Pandey, H. Bhandari and SM Bokhtar (eds). *Seeds Without Borders Initiative in South Asia Current Status and Future Directions*. SAARC Agricultural Centre (SAC) and International Rice Research Institute, Dhaka, Bangladesh p 203.
41. **Gauchan, D.** 2019. **Exploiting Biodiversity** of Traditional Crops for Mainstreaming Nutrition Sensitive Agriculture in Nepal. NAPA Research & Policy Brief, RPB #5, 2019. Association of Nepalese Agricultural Professionals of America (NAPA). [www.napaamericas.org](http://www.napaamericas.org)
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43. **Gauchan, D.** 2019. Seed Sector Development in Nepal: Opportunities and Options for Improvement. Chapter 8. In: Agricultural Transformation in Nepal: Trends, Prospects, and Policy Options (Thapa, G., A. Kumar and PK Joshi Eds). International Food Policy Research Institute (IFPRI). Springer Nature, Singapore, Ltd. p199-229.
44. Wang, W.; **Gauchan, D.**; Degen, A.A.; Shang, Z. 2019. Climate change mitigation and pastoral livelihood in the Hindu Kush Himalaya Region: Research Focuses, Opportunities and Challenges. In: Shang Z. (et al.(eds)) *Carbon Management for Promoting Local Livelihood in the Hindu Kush Himalayan (HKH) Region*. Springer, Book. ISBN : 978-3-030-20591-1/



45. Shang Z., A.A. Degen, **D. Gauchan**, V.R. Squires. 2020. Experience for Future Good Practice and Policy of Combined Carbon Management and Livelihood in HKH Region. In: Shang Z., Degen A., Rafiq M., Squires V. (eds) Carbon Management for Promoting Local Livelihood in the Hindu Kush Himalayan (HKH) Region. Springer, Cham. [https://link.springer.com/chapter/10.1007/978-3-030-20591-1\\_18](https://link.springer.com/chapter/10.1007/978-3-030-20591-1_18)
46. Joshi, K. D., Bhandari, H., & **Gauchan, D.** 2019. Submergence-tolerant Rice Varieties for Climate Adaptation. *Agricultural Research Journal*, 7, 89-102.
47. **Gauchan D.** 2018; Agricultural Development in Nepal; Emerging Challenges and Options. In: Discourses on *Nepal's Development volume I*. Chapter 7 (K. Suman; Mantu Khatri eds); 212-240. Nepal Policy Research Centre; First Edition. Kathmandu, Nepal.
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