

Bijaya Sapkota

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| <u>Date of birth</u> | 1994 May 9 | <u>Nationality</u> | Nepalese |
| <u>Place of birth</u> | Parbat, Nepal | <u>Gender</u> | Male |
| <u>Education</u> | <p>Jan 2025-ongoing PhD in Entomology, Texas A and M, USA. Ongoing</p> <p>Aug 2020 - Aug 2022 Master of Science in Plant Science, Norwegian University of Life Sciences, Norway. Thesis: "Aphid Transmitted raspberry viruses in Norway: detection, occurrence and vector association", where aphid borne raspberry viruses were tested in different county of Norway and investigated associated vectors through virus transmission experiments. https://hdl.handle.net/11250/3041239</p> <p>Apr 2014 — May 2018 Bachelor of Science in Agriculture, Tribhuvan University, Nepal. Thesis: "Host preference of various aphid on different winter vegetable", where three aphid species <i>Aphis fabae</i>, <i>Lipaphis erysimi</i> and <i>Brevicoryne brassicae</i> were reared and observed their host preference on different winter vegetables.</p> | | |
| <u>Work Experience</u> | <p>Jan 2025-ongoing Graduate Assistant Research, Texas A and M, USA Research related to integrated pest management (IPM), biological control, habitat manipulation, vector-virus dynamics, controlled environment agriculture.</p> <p>Jun 2023- Aug 2024 Divisional engineer, Norwegian Institute of Bioeconomy Research (NIBIO), Norway Working in kappaberry project (Norway-Czech Republic collaboration project), manuscript writing, insect rearing, virus-vector interaction experiments, green house management, plant clinic, lab maintenance. https://www.nibio.no/ansatte/bijaya-sapkota?locationfilter=true</p> <p>March 2022- March 2023 Research Technician, Norwegian Institute of Bioeconomy Research (NIBIO), Norway Working as a hour based technician; plant clinic testing (RT-PCR, ELISA, biological indexing), identification of virus isolates, insects rearing.</p> <p>Feb 2018- July 2020 Instructor, Basanta Higher Secondary School Taught planned and organized course content related to Plant Protection to a class of 100 students. Demonstrated field experiments associated with sustainable agricultural practices. Demystified integrated pest management approaches.</p> <p>Jan 2017- Jan 2018 Part-Time Teacher (Secondary School), Tribhuvan Higher Secondary School, Nepal Introduced interactive learning and research techniques into the classroom.</p> | | |

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| <u>Trainings</u> Jan 2017- July 2017 Oct 2016 | IPM Training program Learned IPM related practical knowledge under IPM training program for small farmer in Lamjung campus being president of 33 student circle supported by caritas, Nepal Proposal writing and basic data analysis training. |
| <u>Skills</u> | Molecular technique (nucleic acid extraction from plant and insects' samples, qPCR, RT-PCR, ELISA, and biological indexing, insect barcoding, sangar-sequencing preparation, and result analysis). Entomology (insect rearing, insect ecology, vector study of small insects (mites and aphids), IPM) Basic microscopic technique (sample preparation, basic use of light microscopy, confocal laser scanning microscopy) Laboratory management and support skills (Lab organization, Inventory management) R -programming and data analysis. |
| <u>Languages</u> | <div> English (Highly proficient) Nepali (Native speaker) </div> <div> Hindi (Very good command) Norsk (A1; learning) </div> |
| <u>Publications</u> | <u>Publications in peer-reviewed journals</u> <ul style="list-style-type: none"> • Sapkota, B.; Trandem, N.; Fr.nov., J.; Koloniuk, I.; Blystad, D.R and Hamborg, Z. Incidence of aphid-transmitted viruses in raspberry and raspberry aphids in Norway and experiments on aphid transmission of black raspberry necrosis virus (BRNV). <i>Frontiers in Plant Science</i>. 2024,15. DOI: 10.3389/fpls.2024.1441145 • Koloniuk, I.; Fránová, J.; Příbylová, J.; Sarkisova, T.; Špak, J.; Tan, J.L.; Zemek, R.; Čmejla, R.; Rejlová, M.; Valentová, L.; Sedlák, J.; Holub, J.; Skalík, J.; Blystad, D.R.; Sapkota, B and Hamborg, Z. Molecular Characterization of a Novel <i>Enamovirus</i> Infecting Raspberry. <i>Viruses</i>. 2023, 15, 2281. DOI: https://doi.org/10.3390/v15122281 • Lenz, O.; Koloniuk, I.; Sarkisová, T.; Čmejla, R.; Valentová, L.; Rejlová, M.; Sedlák, J.; Blystad, D.-R.; Sapkota, B.; Hamborg, Z.; et al. Molecular Characterization of a Novel Rubodvirus Infecting Raspberries. <i>Viruses</i>. 2024, 16, 1074. DOI: https://doi.org/10.3390/v16071074 • Tan, J.L.; Trandem, N.; Zemek, R.; Hamborg, Z.; Sapkota. B.; Blystad, D.R and Fránová, J. Population density of eriophyid mites (Acari: Eriophyidae) on raspberry (<i>Rubus idaeus</i>) and their association with leaf blotch symptoms. <i>magnolia press</i>, Auckland. 2022, 328pp DOI: 10.11646/zoosymposia.22.1.50 • Bhattarai, S.; Bhandari, T.; Adhikari, S and Sapkota, B. Value Chain Analysis of Areca Nut Subsector: A Case Study of Jhapa, Nepal. <i>Acta Scientific Agriculture</i>. 2019, 133-139. DOI: 10.31080/ASAG.2019.03.0698 • Sapkota, B.; Kafle, K.; Pokharel, S et al. Host preference of different aphid species on major winter vegetables. <i>Research and Reviews: Journal of Agricultural Science and Technology</i>. 2018, 7(2). URL: https://www.researchgate.net/publication/360177595 |

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| | <ul style="list-style-type: none"> • Pokharel, S.; Amgain, L.B.; Sapkota, B and Khanal, A. Effect of Spacing and Number of Seedling Hill-1 on Grain Yield and other Agronomic Traits of Hybrid Rice (U.S. 312) on Late Transplantation. <i>JOJ Material Sci.</i> 2018, 5(1): 555652. URL: https://juniperpublishers.com/jojms/pdf/JOJMS.MS.ID.555652.pdf • K.C, R.K.; Kafle, K.; Subedi, R.; K.C, B.; Sapkota, B and Shahi, S. Effect of various Weather Factors in seasonal variation of insect's pest in Rice in Sunder bazar, Lamjung, <i>International Journal of Research in Agricultural science.</i> 2018, 5(4). URL: https://journals.indexcopernicus.com/api/file/viewByFileId/530161.pdf • Khanal, A.; Poudel, S.; Pokharel, S and Sapkota, B. Postharvest quality and longevity of Gerbera varieties as affected by different floral preservatives. <i>Research and reviews: Journal of Botany.</i> 2018, 7(2). URL: https://www.researchgate.net/publication/337621733 <p>Conference Paper</p> <ul style="list-style-type: none"> • Tan, J.L.; Trandem, N.; Zemek, R.; Hamborg, Z.; Sapkota, B.; Blystad, D.R and Fránová, J. Eriophyid mites, spider mites and predatory mites on red raspberry in south-eastern Norway. 2024. URL: https://iobc-wprs.org/product/eriphyid-mites-spider-mites-and-predatory-mites-on-red-raspberry-in-south-eastern-norway/ <p>Book chapter</p> <ul style="list-style-type: none"> • K.C, R.; Regmi, D.; Sapkota, B and K.C, B. Industrial Entomology and mushroom cultivation (plant science vol-IX).2021. <i>samiksha publication</i>, Nepal. URL: https://www.samikshapublication.com.np/index.php?route=product/product&product_id=1067 |
| References | <p>Arash Kheirodin, PhD Assistant professor, Texas A and M · arash.kheirodin@ag.tamu · (+1) 972-952-9243</p> <p>Dag Ragnar Blystad, PhD Research Professor, Norwegian University of Life Sciences (NMBU) and Norwegian Institute of Bioeconomy Research (NIBIO) · dag-ragnar.blystad@nibio.no · (+47) 90872588</p> <p>Zhibo Hamborg, PhD Researcher, Norwegian Institute of Bioeconomy Research (NIBIO) · zhibo.hamborg@nibio.no · (+47) 94257170</p> |