CURRICULAM VITAE

Yogranjan

Scientist /Assistant Professor (Agricultural Biotechnology)

J.N. Agriculture University, Jabalpur (M.P.) India.

Date of Birth : 30 - 03 - 1980. Nationality : Indian

Contact : +91-9425837683 E-mail : yogranjan@gmail.com

Academic qualification:

Degree	Year	University/ Board	Div/OGPA/ %	Subject
Ph.D.	2016-17	M.G.C.Rural University, Chitrakoot, Satna, M.P., India	I	Agricultural Biotechnology
M.Sc.(Agri.)	2003-04	Biotechnology Centre, J.N. Agriculture University, Jabalpur.India	I (8.73/10)	Agricultural Biotechnology
B.Sc. (Agri.)	2001-02	College of Agriculture, Indore, J.N. Agricultural University, Jabalpur, India	I (7.75/10%)	Agricultural Science

Theses Titles:

- **Ph.D.: Characterization of genetic diversity for remodeling of white seeded Sesame (*Sesamum indicum* L.)**
- **M.Sc.: Studies on *in vitro* regeneration and genetic transformation in Pigeonpea (*Cajanus cajan* L. Millsp.) and Groundnut (*Arachis hypogaea* L.)**

Awards / Grants / Recognition:

- **Certificate of qualification of the Junior Research Fellow (JRF) and National Eligibility Test (NET) – NET conducted by Council of Scientific and Industrial Research (CSIR) New Delhi,** held on **December 2004** in the professional subject **Life Science**s.
- **Certificate of Honour in M.Sc.(Agriculture)- Biotechnology** in 2004 from JN Agriculture University, Jabalpur (M.P.) India,
- **Certificate** in **2009** for successful completion of **"General Course on Intellectual Property"** from **World Intellectual Property Organization (WIPO). 34, Chemin des Colombettes CH-1211 Geneva 20, Switzerland**.
- **Certificate** in **2014** for successful completion of "**Multi (III) Year Course of Integrated Breeding Platform (MYC-IBP) held at WUR, Wageningen, The Neetherlands, and IAMZ, Zaragoza, Spain,** organized by **Consultative Group of International Agricultural Research (CGIAR). CIMMYT, Mexico.**
- Awarded the "**Best Poster**" research presentation in the national seminar on climate change organized by State Knowledge Management Centre on climate change, Environmental Planning and Coordination Organization (EPCO), Department of Environment, Government of Madhya Pradesh held on March,22nd-24th,2018.

Membership of International/National Scientific Societies:

- **European Federation of Biotechnology**: **EFB**
  Parc Científic Barcelona.Torres R+D+I. Baldiri Reixac 4-8, 08028 Barcelona – Spain Fax: +93 2684500 Email:efb@efb-central.org, http://www.efb-central.org **Life Membership (Id: 36947)**
- **Society for Plant Biochemistry and Biotechnology NRC ON Plant Biotechnology, IARI, New Delhi-110012. Life Membership** (Id.209-55-417)**.**
- **The Indian Science Congress Association (ISCA)**
  14 Dr. Biresh Guha Street, Kolkata –700 017, **Life Membership** (Id. L15775)**.**
- **Secretary, Innovative Education And Scientific Research Foundation (IESRF)**
  RZH-941 A, 1st Floor, Raj Nagar – II, Palam Colony, New Delhi -110077, India
  website: www.iesrf.org
- **International Society for Noni Science [ISNS]**
  TONA Villa, No.16, 5th Main Road CBI Colony, Perungudi, Chennai – 600 096.
  Life Membership (Id. LM-076-22)

International Institutes / Foreign countries visited on academic /research pursuit

- **Certificates** in for successful completion of "**Multi (III) Year Course of Integrated Breeding Platform (MYC-IBP) under Generation Challenge Program (GCP) held at** Mediterranean Agronomic Institute of Zaragoza **(IAMZ), Spain during two successive years 2013 and 2014** organized by **Consultative Group of International Agricultural Research (CGIAR). CIMMYT, Mexico.**

- **Certificates** in for successful completion of first year of "**Multi Year Course of Integrated Breeding Platform (MYC-IBP) held at Wageningen University of Research (WUR), Wageningen, The Neetherlands in the years 2012** organized by **Consultative Group of International Agricultural Research (CGIAR). CIMMYT, Mexico.**

- **International Post Graduate Program** on **"Biotechnology in Agriculture in a world of Global Environmental Change" (2012)** held at **Hebrew University of Jerusalem`s Faculty of Agriculture, Rehovot, Israel** from 06 February-5 April 2012.

Research Papers in International/ National Journals:

1. Thakur Shobharam, Ratan Shiv, Nayak M.K., . Yogranjan, Tomar D.S. (2025). Impact of Leaf Webber and Capsule Borer Infestation on Yield Potential of Promising Sesame Varieties. Journal of Advances in Biology & Biotechnology, 2025, 28 (4), pp.961-966. ⟨hal-05046767⟩
2. Yogranjan and Deepti Dixit (2024). Recurrent catastrophies in drought-hit Bundelkhand: New direction needed to tackle the problem, *Indian Water Review*, 2024 (9), Pp 1-4.
3. Thakur, S., Ratan, S., Nayak, M. K., Yogranjan and Tomar, D. S. (2024). Sesame (Sesamum indicum) Yield Gap and Economic Analysis through Front Line Demonstrations under Rainfed Conditions in Tikamgarh District of Bundelkhan Zone of MP. *International Journal of Plant & Soil Science, 36*(12), 436-441.

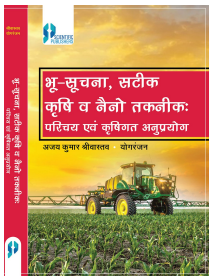
4. Thakur, S., Nayak, M. K., Ratan, S., Shyam, M. and ***Yogranjan*** (2023). The Impact of Various IPM Modules on the Management of Major Insect Pests of Sesame in Madhya Pradesh's Bundhelkhand Zone. *International Journal of Plant & Soil Science*, *35*(1), 77-85.
5. Thakur, S., Nayak, M. K., Ratan, S., Shyam, M and ***Yogranjan***. (2023). Study of Genetic Improvement and Susceptibility in Relation to the Infestations of the Leaf Roller and Capsule Borer Antigastra catalaunalis (Duponchel). *International Journal of Plant & Soil Science*, *35*(2), 36-44.
6. Pandit, Nikita, ***Yogranjan Singh***, R.S. Chauhan and Chetana Deoghare (2023). "Cow Urine: Mediated Antibiosis and Immune Modulating Anthelmintic Agent." Alt Integr Med; 12 (1): 437-439.
7. ***Yogranjan,*** Gyanesh K Satpute, Lalit M. Bal, A.K. Srivastava and Sudhakar P. Mishra (2021). Molecular Diversity Assessment in Selected Accessions of White Seeded Sesame (*Sesamum indicum* L.) using SSR Markers, Journal of Scientific & Industrial Research; 80(4) 315-321.
8. Kaustubh Gurnani, ***Yogranjan***, Gyanesh K Satpute (2021). Nanotech drug delivery system: The perfect physio-Chemical deal for biological command. J Pharm Biol Sci 2021; 9(2):1-8.
9. AK Srivastava, RS Marabi, Lalit M Bal & ***Yogranjan*** (2021). Weather based rules for yellow mosaic disease prediction on soybean in Madhya Pradesh, Indian Journal of Biochemistry & Biophysics; 58(5)486-497.
10. Shiv Ratan and ***Yogranjan*** Singh. (2021). Effect of Technological Advancement on Performance of Rapeseed Mustard Varieties Assessed under Zero-till and Utera Conditions in Rice Fallow Areas of Madhya Pradesh. Int.J.Curr.Microbiol.App.Sci. 10(02): 1344-1348. doi: https://doi.org/10.20546/ijcmas.2021.1002.159.
11. ***Yogranjan***, Gyanesh K Satpute and Sharad Tiwari (2020). Protoplast mediated initiatives and the status of bio-techniques for improvement of table-purpose crop varieties, Research Journal of Biotechnology; 15 (12): 208-219.
12. ***Yogranjan,*** Gyanesh K Satpute, Ajay Kumar Srivastava and Sudhakar P Mishra, (2020). Characterization of genetic diversity for remodelling of elite accessions of sesame (*Sesamum indicum* L.), International Journal of Chemical Studies 2020; 8(2): 133-140.
13. A.K. Srivastava, ***Yogranjan*** and Bal, Lalit M, (2020). Variability of extreme weather events and its impact on crop yield in Bundelkhand Agroclimatic zone of Madhya Pradesh, MAUSAM, 71, 2 (April 2020), 551-560.
14. A.K. Srivastava and ***Yogranjan*** (2019). Water requirements of major crops and their critical states (*in Hindi*). https://www.krishisewa.com/articles/resource-management/1073.
15. Lalit M. Bal, ***Yogranjan***, S. N. Naik, Santosh Satya and Abhijit Kar (2017) Changes in tissue structure and physicochemical quality characteristics of bamboo shoot slices during microwave drying process Journal of Food Measurement and Characterization, 11(3) 1203–1209.

16. A.K. Srivastava, Nayak, M. K. ***Yogranjan***, Tomar D. S. and Kamlesh Gurjar (2016) Weather based prediction of Chickpea *Helicoverpa armigera* population in Bundelkhand agroclimatic zone of Madhya Pradesh MAUSAM, 67, (2):377-388.
17. R S Marabi, Satpute, G. K., ***Yogranjan***, Bhowmik, A.K. and Kailash Chaukikar (2016) Apis mellifera mediated foraging behavior for regulation of pollination efficiency in Guizotia abyssinica (L.F.) Cass, Progressive Research, 11(2): 1059-1063.
18. M.K. Mishra, Tahkur S.R, Gupta MP and ***Yogranjan*** **(2016)** Field Screening of Sesame Accessions against Leaf Roller and Capsule Borer (*Antigastra catalaunalis* Dup.) Indian J. Plant Genet. Resour. 29(1): 8-10
19. ***Yogranjan***, Satpute G. K. and Mishra S. P. (2015) Genetic and genomic intervention to upsurge nutritive values of sesame (*Sesamum indicum* L.) Asian Journal of Science and Technology Vol. 6, Issue 04, pp. 1296-1303.
20. M.K.Nayak, D.S.Tomar, M.P.Gupta and ***Yogranjan*** (2015) Incidence and avoidable losses due to leaf roller/capsule borer in sesame (*Sesamum indicum* L.). Annals of Plant and oil research 17 (2), 163-166.
21. R S Marabi, Satpute, G. K., ***Yogranjan***, Das S. B. and Veda O.P. (2014) Molecular Characterization of *Beauveria bassiana* (Balsamo) for Management of Foliage Feeders in Soybean (*Glycine max* L.) – An overview. Soybean Research 12(Special Issue Number 2): 08-18.
22. ***Yogranjan***, G K Satpute, R S Marabi, Manish K Mishra and S P Mishra (2014) Global resurgence of sesame (*Sesamum indicum* L.) utlization: A current scenario. Indo-Am. J. Agric. & Vet. Sci. Vol. 2(3),12-26.
23. ***Yogranjan***, Srivastava A.K., Satpute G. K., Marabi R. S.(2014) Bright Farming: An Innovative Approach for Sustainable Socio Ecosystem in Climate Change Scenario. Current World Environment. Vol. 9 (2), 399-402.
24. A.K.Srivastava and ***Yogranjan*** (2013) Biological Rain – A New Window for Harvesting Atmospheric Moisture Everyman's Science Vol. XLVIII No. 4, Oct '13 —Nov '13 pp 288-291.
25. Marabi R.S., Satpute G.K., ***Yogranjan*** and Gupta M.P. (2011). Determination of genetically desirable association through quantitative traits variation in potentially improved seed yielding phenotypes modulating biotic stress response in Linseed (*Linum usitatisimum* Linn.) Journal of Genetics & Breeding (Italy) 63: 35-42.
26. ***Yogranjan***, Satpute G.K., and Marabi R.S. (2010). Technological developments in agriculture for sustainable impact on human health. Electronic Journal of Polish Agricultural Universities (Poland). Topic- Agronomy 13 (3): 1-8.
27. Pranay Kumar, Shanker K. Singh, ***Yogranjan*** , Mayurdhvaj K. Jhala (2010), A Brief View on Molecular Diagnosis and Surveillance of West Nile Virus. Avicenna Journal of Medical Biotechnology (Iran). Vol. 2, No. 4, October-December 2010.

28. Singh Y, and ***Yogranjan*** **(2008)**. Polymerase chain reaction: a tool for fungal detection. J. Basic Appl. Mycol. (India) 7 (I & II): 1-4.

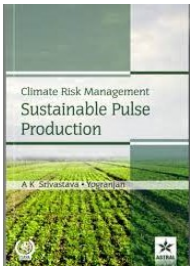
29. ***Yogranjan***, Eapen S., Tiwari S., and Tripathi M.K. (2006). *Agrobacterium*- mediated genetic transformation of Groundnut (*Arachis hypogaea* L.) using epicotyl explants. Plant Cell Biotechnology and Molecular Biology (India) 7 (1 & 2): 73-76.

Books:



Yogranjan, Pranay Kumar (2020) **Text book** "**Essentials of Agricultural Microbiology**" Innovative Publication Limited, Uttam Nagar, New Delhi, India 110059. ISBN:978-93-88022-59-0

A.K.Srivastava and ***Yogranjan*** (2020) **Text book "GeoInformatics, NanoTechonology & Precion Farming (Hindi)" Scientific Publishers**, New Pali Road, Jodhpur, 306401, India ISBN: 978-93-89832-65-5, eISBN: 978-93-89832-66-2



A.K.Srivastava and ***Yogranjan*** (2017) **Edited book "Technological Options for Climate Risks Management in sustainable pulse production"** Astral International Pvt Ltd, New Delhi (Daya publishing House, India) ISBN: 978-93-5124-954-2.

Book Chapters:

1. Devendra K. Payasi, Deepa Garg, Sangya Payasi and **Yogranjan** (2024).Preharvesting processing of linseed crop. In Linseed, a multipurpose multisector crop of industrial significance, edited by Sapna Langyan and Ashok Kumar, Academic Press (an imprint of Elsevier), 125 London Wall, London EC2Y 5AS, United Kingdom. ISBN 0443154392, 9780443154393.

2. ***Yogranjan***, Sarthak Pandey and Amit Kumar Goswami (2021). Ensuring water availability in future through revival of Indian traditional water culture. In: Environmental Management *Ed*. John P. Tiefenbacher, IntechOpen, Rijeka: Janeza Trdine 9, 51000 Rijeka, Croatia, London. ISBN 978-1-83962-547-3, pp. 3-26. http://dx.doi.org/10.5772/intechopen.99311.

3. ***Yogranjan,*** Srivastava, A.K., Bal, Lalit M., and Mishra, S.P. (2018). Redefining Lentil (*Lens culinaris* M.) through Genomics for Nutritional Security: Status and Outlook. Chapter 10; *In* climate risk management for sustainable pulse production, *Eds*. A.K.Srivastava and Yogranjan; Astral International Pvt. Ltd. New Delhi, 110002, India, ISBN 978-93-5124-954-2, pp. 205-220.

4. A. K. Srivastava, Prusty Suvashree R. and ***Yogranjan*** (2018). Pulse Production and Technological Advancement for Meeting the Growing Need: Assessment and Analysis. Chapter 1; In climate risk management for sustainable pulse production, *Eds*. A.K.Srivastava and Yogranjan; Astral International Pvt. Ltd. New Delhi, 110002, India, ISBN 978-93-5124-954-2, pp. 3-26.

5. ***Yogranjan,*** Lalit M. Bal, G.K. Satpute and A.K. Srivastava (2017). Plant Stress Signaling Through Corresponding Nanobiotechnology. In: Nanotechnology Applications in Food *Eds*. Alexandra Elena Oprea and Alexandru Mihai Grumezescu, Academic Press, *Elsevier, London,*pp.381-390.

6. ***Yogranjan,*** Kamini Bisht, and Sheela raghuwanshi (2017). Mechanistic understanding of climate change scenario for its mitigation through directional practices and adoption in agriculture. In: Climate change combating through science and technology *Eds*. *Kinhal et al.,* Bishen Singh Mahendra Pal Singh and IIFM, Bhopal,pp.287-294.

7. ***Yogranjan***, G.K.Satpute, R.S. Marabi and S.P. Mishra (2015). Sesame: Identifying an orphan crop in international arena through a sustainable compromise between quality and productivity. In: Major Constrains and Verdict of Crop productivity. Eds. U.N. Bhale; Astral International Pvt Ltd, New Delhi (Daya publishing House, India) ISBN No-978-93-5124-348-9, Pp 51-63.

8. Srivstav A.K., ***Yogranjan*****,** Satpute G.K. and Marabi R.S (2010). Bright farming to mitigate climate change for improving vulnerable socio-ecosystem: A sustainable approach. *In* Climate Change and Society . *Eds*. Manjula Mehta; **Ministry of Earth Science, Govt of India,** pp. 11 – 18.

Extension Publication:

1. **योगरंजन** (2024), कृषि में विकास का अनुपम उदहारण है मध्य प्रदेश, ग्राम क्रांति, 1 नवंबर , 2024, पृष्ठ 8.
2. R.K.Prajapati, B.S.Kirar and ***Yogranjan*** (2023) Farmers conserve rare species of kodo millets, *LEISA-India*, March, 2023 pp 17-18.
3. Tushar Panigrahi and ***Yogranjan Singh*** (2023) India's agriculture in 2047: Feeding 1.7 billion, *PSU Watch*, August, 2023 pp 47-50.
4. ***Yogranjan***, Lalit Mohal Bal, Dinesh Kumar and Ayushi Soni (2021) Adding value to Mahua in pandemic times, *LEISA-India*, June, 2021 pp 16-18.
5. ***Yogranjan*** and Sarthak Pandey (2021) Nature comes home through corona smart agriculture, *Just Agriculture*, April 2021, Vol.1 Issue-8, pp 1-6.
6. ***Yogranjan*** and Kamini Bisht (2015) Linking Market: Students show the way, *LEISA-India*, June, 2015 pp 28-29.
7. ***Yogranjan*** (2015) Technological ingredients in agriculture to ensure food secure future, *Rural Marketing* July, 2015, pp 22-27.
8. ***Yogranjan*** (2015) Driving Agricultural Biodiversity for Food Security: Global Challenges and Changes. Training Manual on Protection of plant varieties and farmers right organized by JNKVV, KVK and ZPD, Zone –VII, ICAR, Jabalpur
9. ***Yogranjan***, Manish K.Mishra, M.K.Nayak, D.S.Tomar, A.K. Srivastava and Lalit Mohan Bal (2016) Harnessing the power of agricultural students for farming tomarrow. *Abhinav, 2016*. Pp. 26-28
10. Manish Mishra, Shobharam Thakur, Lalit Mohan Bal and ***Yogranjan*** (2016) India`s Grain Outlook: Trends, alternatives and choices. *Abhinav, 2016.* Pp. 43-44
11. G.K. Satpute, M.P. Gupta, R.K.Pathak and ***Yogranjan***, (2011) Til ki Unnat evam vyavsayonmukhi Kheti. JNKVV, College of Agriculture, Tikamgarh.

International/ National Trainings attended:

1. **National Training programme on "Computational Approaches for Next Generation Sequencing (NGS) Data Analysis in Agriculture"** at **ICAR-IASRI, New Delhi** under Centre of Advanced Faculty Training (CAFT); February 8th -28th , 2017.
2. **International Post Graduate Program** on **"Biotechnology in Agriculture in a world of Global Environmental Change" (2012)** held at **Hebrew University of Jerusalem`s Faculty of Agriculture, Rehovot, Israel** from 06 February-5 April 2012.
3. **National Training Programme (2010) on "IPR and WTO related issues"** organized by **Patent Facilitating Centre, TIFAC, Department of Science and Technology, New Delhi, India** ; December, 27th – 31th, '10.
4. **National Training Programme (2008) on "Molecular Diagnosis of Viral Diseases"** organized by Madhya Pradesh Council of Science and Technology, Bhopal, M.P. India at Biotechnology Centre, Jawaharlal Nehru Agriculture University, Jabalpur, M.P. India ; September, 4th – 22th, '08.

Research, teaching and extension experience: (Total Experience: more than Seventeen years)

Research experience:

- Carrying out an extensive research work through a sanctioned research Project entitled "Developing and establishing hi-tech plant tissue culture laboratory for supplying quality planting materials of different forest based plants to local farmers for livelihood enhancement with diffusion of research" at College of Agriculture, Tikamgarh under RKVY- Agroforestry Scheme, Government of Madhya Pradesh with a project outlay of Rs. 100 Lakh.
- Judicious post harvest management practices and technological options have been emerged for product quality improvement under a research project entitled "Preservation and Value Addition of Mahua flower (Madhuca indica) for socio economic upliftment of tribals in Bundelkhand region of M.P. funded by Madhya Pradesh Biodiversity Board,Bhopal.
- Field screening and agro-morphological evaluation along with molecular characterization of the Sesame (*Sesamum indicum* L.) germplasm (61 genotypes) for **export oriented oil quality traits** especially seed oil content and fatty acid composition, least Free Fatty Acids and/or antinutritinal factors *viz*; oxalic acid and phytic acid, **seed yield and its attributes** and **biotic and abiotic stress resistance**, using augmented design at Research farm under All India Coordinated Research Project (Sesame) at Jawaharlal Nehru Agricultural University, College of Agriculture, Tikamgarh, India.
- Research studies related to **genetic transformation in Pigeonpea (*Cajanus cajan* L. Millsp.) and Groundnut (*Arachis hypogaea* L.)** conducted at Plant Biotechnology and Secondary Product Section, Nuclear and Agriculture Biotechnology Division, **Bhabha Atomic Research Centre (BARC), Mumbai**, during the years 2003-04
- **Molecular characterization of mungbean yellow mosaic virus (MYMV) , soybean mosaic virus (SMV) and white fly for soybean disease control in East MP encompassing i**dentification of MYMV- or SMV-infected soybean plants and MYMV-infected whiteflies using molecular methods & determination of different biotypes of whiteflies on soybean.
- Experience of conducting research with multidisciplinary interactions in Agricultural Sciences, which requires replicated yield trial management, plant breeding aspects including selfing, crossing, disease resistance management; collection and observation

of data, software (Mstatc, indostat, SPSS, Past, STAR, PBTools) handling; report writing and scientific publication writing.

Teaching experience:

- Has been teaching different courses of Biotechnology, Biochemistry, Microbiology, Physiology and Plant breeding and Genetics for more than 17 years to undergraduate, post graduate and PhD students.
- Contributed significantly in the development, designing and revision of course curriculum in the Biotechnology, biochemistry and physiology Disciplines.
- Has been instrumental in augmenting the laboratory facilities and added several equipments to the biotech laboratories of college and University.
- Several teaching Manuals and Instructional materials were developed for the benefit of students and faculty in courses.

Extension experience:

- Has been coordinating an extension project entitled " Unnat Bharat Abhiyan" sponsored by Ministry of Education, Government of India since 2017. Status- ongoing.
- Acted as **Coordinator of a** short training cum awareness programme on ***"Youth initiatives on climate change awareness"*** at College of Agriculture, Tikamgarh, M.P. sponsored by Environmental Planning and Coordination Organization, (EPCO, Bhopal), conducted on January, 6^{th}-10^{th}, 2020.
- Delivered several talks and lectures at various platforms on recent technological developments in agriculture and advocated adoption of GM foods to set people and farmers aside out of fear of the unknown and unintended disadvantages.

(Yogranjan)