

RESUME



Name : Dr. Sabyasachi Patra

Designation : Assistant Professor in Seed Technology
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Burdwan, 2nd Floor, Golapbag, Pin-713104,
Burdwan, West Bengal

Permanent Address : Vill.- Tungi, P.O.- Brahmandiha, Dist.- Bankura,
Pin-722173, West Bengal

Date of Birth : 23.01.1983

Academic Qualification :

Qualification	Institute/University	Year of Passing
Ph.D (Ag.) in Seed Science & Technology	Institute of Agricultural Science, Kolkata (University of Calcutta)	2012
M.Sc (Ag.) in Seed Science & Technology	Institute of Agricultural Science, Kolkata (University of Calcutta)	2007
B.Sc (Agriculture)	T.D. College, Jaunpur , U.P (V.B.S.P.U)	2005
Higher secondary	W.B.C.H.S.E, West Bengal	2001
Secendary	W.B.B.S.E, West Bengal	1999

Order of Merit in M.Sc.(Ag.) in Seed Science & Technology :

1st position in 1st class in one and the first chance as a regular student in M.Sc. Agriculture on the department of Seed Science & Technology, 2007.

Award :

Selected for Inspire Award Fellowship as a Research Student [IF 110141]

VIDWAN / ORCID Info.

Profile URL : <https://vidwan.inflibnet.ac.in//profile/237122> Orcid Id: 0000-0002-2689-8504

Research interest :

Seed vigour & viability, Seed storage, Seed invigoration, Seed multiplication, Varietal trial, Sustainable Agriculture

Details of publications:

A. Research /Review Papers :

A.K. Mandal, S.Patra, P.Guha. Seed Invigoration Treatment in Rice for Improved Storability and Comparative Efficacy of Treatments on Field Performance in System of Rice Intensification and conventional Methods., *Indian Agric.*, Vol. 55, No. 3 & 4, pp. 121-128, 2011

S. Patra, P.Guha, P.S. Biswas and A.K. Mandal. Mid-storage seed invigoration treatments in rice (cv. Satabdi) for extended storability and comparative study on field performances by employing conventional and system of rice intensification method., *Indian Biologist*, Vol. 44 (2), pp 29-37 (2012)

A.K. Mandal, S.Patra, R.B. Mallick, A. Mahato and J. Biswas. Efficacy of seed treatment in rice (cv. Swarna masuri) for improved germinability and comparative study on field performance by conventional and system of rice intensification (SRI) technology., *Crop Res.* **41** (1, 2 & 3) : 227-232 (2011)

P.S. Biswas, B.K. De, S.Patra and A.K. Mandal. Maintenance of storability and yield by seed invigoration treatments in sesamum (*Sesamum indicum* L.). *J. Botan. Soc. Bengal* 66 (1) : 45-50 (2012).

Subhasis Mandala, D. Burmana, B.K. Bandyopadhyaya, U.K. Mandala, S.K. Sarangia, K.K. Mahantaa, B. Majia, D.K. Sharma, N.J. Maitrab, T.K. Ghoshal, A. Velmurugand, S.K. Ambastd, P.K. Manie , B. Mandale, P. Patraa, S. Patraa and S. Dea. Crop-Fish Integration through Land Shaping Models for Enhancing Farm Income under Eastern Coastal Region of India. *Agricultural Economics Research Review* Vol. 28 (Conference Number) 2015 pp 47-54 DOI: 10.5958/0974-0279.2015.00021.X

Burman, D., Mandal, S., Bandyopadhyay, B.K., Maji, B., Sharma, D.K., Mahanta, K.K., Sarangi, S.K., Mandal, U.K., Patra, S., De, S. and Patra, S., 2015. Unlocking production potential of egraded coastal land through innovative land management practices: a synthesis. *J Soil Salinity Water Qual*, 7(1), pp.12-18.

Sabyasachi Patra. Field performance of different improved varieties of rice (*Oryza sativa* L.) in old alluvial soil of Burdwan, West Bengal. *Crop Res.* 51 (4, 5 & 6) : 87-00 (2016)

S. Patra. Retention of germinability of rice crop (cv. MTU 1010) with botanicals and comparative study on field performances by employing paddy-cum fish technology and conventional method. *Indian Biologist*, vol. 48 (1), pp 15 - 21 (2016)

S. Patra. Field performance and productivity of different indigenous aromatic rice (*oryzae sativa* L) varieties under old alluvial soil of Burdwan, West Bengal. *Indian Biologist*, vol. 48 (1), pp 25 - 27 (2016)

Sabyasachi Patra . Effect of seed invigoration treatments for better storability of rice (*oryzae sativa* L., cv., *mtu-1010*) seed. *Indian Biologist*, vol. 48 (2), pp 51 - 53 (2016)

Patra S, Burman D (2017) Maintenance of Storability and Enhancing Productivity of Rice Crop By Seed Invigoration Treatments in Coastal Region of Sundarbans. *Vegetos* 30:1.doi:10.5958/2229-4473.2017.00015.5

S. PATRA. Response of various seed invigoration treatments in high and medium vigour rice (*Oryza sativa* L. cv. IET-4094) seeds for improved germinability. *Crop Res.* 52 (1, 2 & 3) :1-3 (2017)

Sabyasachi Patra. 2017. Effect of Pre-Storage Seed Invigoration Treatment in Onion (*Allium cepa* L., cv. Agrifound Dark Red) for Improved Germinability and Field Performance. *Int.J.Curr.Microbiol.App.Sci.* 6(6): 478-482. doi: <https://doi.org/10.20546/ijcmas.2017.606.055>

Sabyasachi Patra. Effect of fertilizer level and integration of vermicompost with fertilizer level on yield of potato (*solanum tuberosum* l. cv. kufri jyoti) in old alluvial soil of Burdwan. *Indian biologist* (2017)

S. Patra. Effectiveness of different invigoration treatments in stored sunflower (*Helianthus annuu* L.) seed for the improvement of storability and enhancing productivity., *Indian biologist Vol. 50 (1), pp 37-41 (2018)*

Murmu, J. N., & Patra, S. Traditional Agriculture Plays Vital Role In Santal Culture., *International Journal of Creative Research Thoughts*, Volume 10, Year 2022

S. Patra. Overview of the influence of environmental factors on seed performance., *GAU Research Journal*, Volume 47(2), Year 2022, Pages 110-116

Patra, S. (2023). A Review on Management of Seed Borne Diseases through Seed Multiplication Strategies. In *Biological Forum–An International Journal* (Vol. 15, No. 1, pp. 377-382).

Patra, S. (2023). Seed Multiplication of Traditional Varieties of Paddy (*Oryza sativa* L) for their Protection in Sustainable Agriculture. In *Biological Forum–An International Journal* (Vol. 15, No. 1, pp. 592-600).

Patra S. Review an investigation of the effects of macro and micro nutrients on the production of high quality seed. *International Journal of Theoretical & Applied Sciences*, Volume 15(2), Year 2023, Pages 16-21

Patra S. A Review on Impact of Mobile Apps in Agriculture *International Journal of Theoretical & Applied Sciences*, Volume 15 (2), Year 2023, Pages 85-91

B. Book chapter :

1. Sabyasachi Patra. A review on Effect of Seed invigoration treatments during storage on vigour, viability and productivity of major oil seeds. ENVIRONMENTAL CRISIS IN 21st CENTURY : TOWARDS CONSCIENCE AND SUSTAINABILITY, Year 2021, Pages 177-179

2. Sabyasachi patra. Conservation and multiplication of traditional varieties of crops for their protection in sustainable agriculture ENVIRONMENTAL CRISIS IN 21st CENTURY : TOWARDS CONSCIENCE AND SUSTAINABILITY, Year 2021, Pages 177-179

C . Booklet:

Patra. S., Patra. P, De. S., Bandyopadhyay. B. K., Majhi. B., Burman. D., Mandal. S. Sarangi. S.K., Mahanta. K.K., Mondal U.K., Raut. S., June 2011 Paschim Banghe Upokulborti Anchale Dhan chas (Paddy cultivation in coastal region of West Bengal). Central Soil Salinity Research Institute, Regional Research Station, Canning Town, West Bengal. 27p,

Patra. S., Giri. A.K., Patra. P De. S., Bandyopadhyay. B. K., Burman. D., Mandal. S., Sarangi, 2012 Quality seed production of paddy. Central Soil Salinity Research Institute, Regional Research Canning Town, West Bengal Station,. 19p.

D. Leaflet :

Patra. P., De. S., Patra. S., Bandyopadhyay. B. K., Burman. D., Mandal. S., Sarangi. S.K., Mahanta. K.K. 2011. *Vermicompost* (in local language, Bengali). Central Soil Salinity Research Institute, Regional Research Station, Canning Town, West Bengal. 4 p.

Giri. A.K., Patra. S., Patra. P De. S., Bandyopadhyay. B. K., Burman. D., Mandal. S., Sarangi, 2012, Polyculture of Fish & Prawn in Pond. Central Soil Salinity Research Institute, Regional Research Station, Canning Town, West Bengal. 6p.

De. S., Patra. P., Patra. S., Bandyopadhyay. B. K., Burman. D., Mandal. S., Sarangi. S. K., Mahanta. K.K. June 2011. *Paddy-cum-fish cultivation* (in local language, Bengali). Central Soil Salinity Research Institute, Regional Research Station, Canning Town, West Bengal. 4 p

Research Project :

S. No.	Title	Sponsoring Agency	Period		Amount (Rupees in lakhs)	Achievements
			From	To		
1	Seed invigoration treatment in rice (cv. MTU 1010, IET 4094 & GB 1) for improved storability and field performance in conventional method of paddy cultivation	Burdwan University	2016	2017	Granted Rs. 0.5	Germinability, field performance & productivity

Conference/ seminar/ symposium/Workshop

As a paper presenter:

Sl. No.	Title of the Paper Presented	Title of Conference/Seminar	Organized by
1.	Maintenance of Storability and Enhancing Productivity of Rice Crop by Seed Invigoration Treatments in Coastal Region of Sundarbans.	11th National Symposium of ISCAR on 'Innovations in Coastal Agriculture-Current Status and Potential under Changing Environment' (January 14-17, 2016)	Indian Society of Coastal Agricultural Research, ICAR-CSSRI Regional Research Station, Canning Town, West Bengal In collaboration with ICAR-Indian Institute of Water Management, Bhubaneswar, Odisha
2	Effectiveness of different invigoration treatments in stored sunflower (<i>Helianthus annuus</i> L.) seed for the improvement of storability and enhancing productivity	National Symposium on Towards Climate Smart Agriculture- A Key to Livelihood Security (December 9 th to 11 th , 2017)	Institute of Agricultural Science, University of Calcutta In Collaboration with Alumni Association, Institute of Agricultural Science, University of Calcutta
3	Enhancement of Seed quality of rice (cv. IET 4786) by seed invigoration treatments and comparative efficacy of	National Symposium on Towards Climate Smart Agriculture- A Key to Livelihood Security	Institute of Agricultural Science, University of Calcutta In Collaboration with

	seed invigoration treatments on field performances by employing System of rice intensification and conventional method”	(December 9 th to 11 th , 2017)	Alumni Association, Institute of Agricultural Science, University of Calcutta
4	Effect of crude plant materials and chemical as an invigoration treatment in different cultivars of rice (cv. GB-1, MTU 1010, IET 4094) seed for extending germination percentage, yield and yield attributes	2 nd Regional Science & Technology Congress (Western Region) November 16-17, 2017	Jointly organised by The University of Burdwan, Burdwan & Department of Higher Education, Science and Technology And Biotechnology, Government of West Bengal

As a Programme coordinator /Course Coordinator :

1. One day Awareness cum Workshop on Seed Storage Techniques at CRSMF, The University of Burdwan on 3rd February, 2021.
2. Three day workshop on “Mushroom Cultivation” during March 22-24, 2022 organized by Binoy Krishna Choudhury Rural Technology Centre (BKCRTC), The University of Burdwan
3. Three day workshop on “Mushroom Cultivation” during July 18-20, 2023 organized by Binoy Krishna Choudhury Rural Technology Centre (BKCRTC) & Centre for Innovation Entrepreneurship and Skill Development (CIESD), The University of Burdwan
4. Entrepreneurship development and Farmers meet on 24th March, 2024 under 2nd Botanical congress, The University of Burdwan.
5. One day social outreach programme on **Seed Treatment Campaign on 8th February, 2024** at the village of Saraitikar under the district of Purba Bardhaman organized by PNBCRSMF & Department of Botany, The University of Burdwan.

Membership of others areas :

1. Membership of the working committee for CIEDS (Centre for Innovation Entrepreneurship and Skill Development), The University of Burdwan in the year of 2021
2. Seedling Development Committee for Krishnasayer Udyan, The University of Burdwan in the year of 2020
3. Life membership of Alumni association of Institute of Agricultural Science, University of Calcutta
4. Organizing Committee to the 5th Regional Science Congress, 2022-23 held on 06.07.2023
5. Sustainability Practice and Reporting Committee (SPRC), The University of Burdwan, 2024

Invited as an Expert/ Resource Person :

1. Taking a session under Diploma in Agricultural Extension Services for Input Dealers (DASEI) programme on “Seed Storage and Maintenance” on 17.05.2019 at **Krishi Vigyan Kendra Kalyan** (Affiliated to Ramakrishna Mission lakasikshaparishad, Narendrapur, Kolkata-103), Vivekanandanagar, Purulia (W.B) under **ICAR**
2. Taking a session under Diploma in Agricultural Extension Services for Input Dealers (DASEI) programme on “Difference between seeds and grains” on 11.01.20202019 at **Krishi Vigyan Kendra Kalyan** (Affiliated to Ramakrishna Mission lakasikshaparishad, Narendrapur, Kolkata-103),

Vivekanandanagar, Purulia (W.B) under **ICAR**

3. Precious talk on March, 2021 for a Certificate course on People's Biodiversity Register" under Green Skill Development Programme (GSDP), organized by ENVIS Resource Partner on Environmental Biotechnology, University of Kalyani from MoEF&CC, Govt. of India, New Delhi.
4. "Method of Seed Treatment in Paddy" under the project of Productive, Profitable, Resilient Agriculture & Aquaculture System, CSSRI, RRS, Canning Town, South 24 Pgs. (W.B.)
5. "Testing of Quality Seed at Farmers Level" under the project of Productive, Profitable, Resilient Agriculture & Aquaculture System, CSSRI, RRS, Canning Town, South 24 Pgs. (W.B.) "Nutrient Management of Paddy" under the project of Productive, Profitable, Resilient Agriculture & Aquaculture System, CSSRI, RRS, Canning Town, South 24 Pgs. (W.B.) "Nursery Management & preparation of layout in Paddy" under the project of Productive, Profitable, Resilient Agriculture & Aquaculture System, CSSRI, RRS, Canning Town, South 24 Pgs. (W.B.)
6. "Integrated Pest Management " under National Agricultural Innovation Project, CSSRI, RRS, Canning Town, South 24 Pgs. (W.B.)
7. "Seed multiplication of Paddy " under the project of Productive, Profitable, Resilient Agriculture & Aquaculture System, CSSRI, RRS, Canning Town, South 24 Pgs. (W.B.)

Experience as a Research Associate :

Three years of research experience during the period from **28.04.2011 to 30.06.2014** (as a **Research Associate**) on livelihood development through farming system, marketing of farm produce, natural resource management, planning and implementation of seed production, seed quality testing and skill development for better farm management in coastal areas of (Sundarbans, West Bengal) India, under **Indian Council of Agriculture Research (ICAR)** at CSSRI, RRS Canning Town. The position is full time contractual job base on National Agriculture Innovation Project (NAIP) (Comp-3, GEF funded). The subproject entitle "**Strategies for Sustainable Management of Degraded Coastal Land and Water for Enhancing Livelihood Security of Farming Communities**"

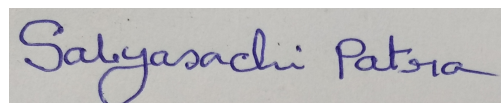
- Sustainable enhancement of the productivity of degraded land and water resources of the coastal region through integrated approaches
- Enhancement of livelihood security and employment generation for the poor farming communities of the coastal region
- Empowerment through capacity building and skill development of stakeholders including men and women farmers.

Declaration:

I hereby declare that the above-furnished information is true to the best of my knowledge and belief.

Date:

Place: Burdwan, West Bengal



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Sabyasachi Patra

