



UNIVERSITY OF CALCUTTA

FACULTY ACADEMIC PROFILE/ CV



- 1. **Full name of the faculty member:** Dr. Sabyasachi Kundagrami
- 2. **Designation:** Associate Professor & Head, Dept. of Genetics & Plant Breeding, Institute of Agricultural Science, University of Calcutta .
- 3. **Specialization:** Genetics & Plant Breeding.
- 4. **Date of Birth:** 26/01/1970
- 5. **Contact information :**
Department of Genetics & Plant Breeding, Institute of Agricultural Science, Calcutta University, 51/2 Hazra road, Kolkata 19.
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6. **Academic qualifications:**

College/ university from which the degree was obtained	Abbreviation of the degree
B.C.K.V.	B.Sc (Ag.) Hons(74.78%)
B.C.K.V.	M.Sc (Ag.) Genetics & Plant Breeding(79.58%)
B.C.K.V.	Ph.D.(Ag.) Genetics & Plant Breeding
Impact Project, J.U.& C.M.C. Ltd.	Diploma in Adv. Profession. Software
A.S.R.B.	N.E.T.

7. **Positions held/ holding:**

Formerly : **P.D. Research Fellow** , Bose Institute , Kolkata ,(1999-2001).
Research Scientist , Seed Research Centre , Calcutta University(2001-2002).
Agricultural Development Officer, W.B.A.S (Adam.) , D. S. F., Burdwan(2002-2005).
Lecturer , Dept. of Genetics & Plant Breeding , C.U. since 2005.
Presently : **Associate Professor & Head**, Dept. of Genetics & Plant Breeding , C.U.
Convener , Ph.D. Research Advisory Committee of Genetics & Plant Breeding,C.U.
Convener , Ph.D. Research Advisory Committee of Plant Physiology ,C.U.
Convener , Ph.D. Research Advisory Committee of Seed Science & Technology ,C.U.
Member , Senate , C.U.

8. **Research interests:**

- Breeding for abiotic stress tolerance in pulses and cereals.
- Breeding for high productivity with improved quality in pulses, oilseeds and cereals.
- Molecular Breeding in sesame.
- Association and mapping of quantitative and qualitative traits controlling genes in crop plant .

9. **Research guidance :**

Number of researchers **awarded Ph.D degrees : 11**
Number of researchers **submitted Ph. D. thesis : 4**
Number of researchers **completed pre submission seminar of Ph.D (5000) : 1**

Number of **M.Sc. Dissertation work supervised: 60**

Name of the Ph.D. students with topic:

1. Dr. Sritama Kundu, Topic: Breeding for salinity tolerance in rice and its management. (**Awarded**)- Dept. of Agriculture , Govt. of West Bengal fundend Project Fellow
2. Dr. Debashree Raychoudhury , Topic: Breeding for high productive short duration heat tolerant lines in Lentil and management for improved productivity. (**Awarded**)- Dept. of Agriculture , Govt. of West Bengal funded Project Fellow.
3. Dr. Mousumi Das , Topic : Breeding for salinity tolerance and management for improved productivity in Chickpea. (**Awarded**)- **DST –Inspire- Fellow**
4. Dr. Biswajit Pradhan , Topic : Breeding for submergence tolerance in rice and its management. (**Awarded**)
5. Dr. Anidya Santra, : Topic: Morphophysiological and biochemical upgradation of Kalmegh germplasms and their prospect as biopesticide. (**Awarded**)- University Research Fellow.
6. Dr. Moushree Sarkar, Topic : Breeding for high productive, extra short duration germplasms of Mung bean and their management for improved storability, viability, vigour and field performance. (**Awarded**)-University Research Fellow.
7. Dr. Anindita Roy , Topic : Breeding for high productive and improved quality lines in chickpea (*Cicer arietinum* L.) (**Awarded**)- **UGC NET Fellow**
8. Aditi Ghosh , Topic : Studies on inbred lines, their combining ability and development of high productive hybrids in maize (*Zea mays* L.). (**Awarded**)-**DST –Inspire- Fellow**
9. Sanhita Ghosh , Topic :Breeding for high yielding genotypes with improved quality in mungbean (*Vigna radiata* (L.) Wilezek). (**Awarded**)
10. Himadri Shekhar Das , Topic : Breeding for high productive, determinant and MYMV tolerance lines in mungbean (*Vigna radiata* L. Wilczek(**Awarded**)
11. Maini bhattacharjee , Topic : Analysis for whole genome sequencing, genetic diversity and tagging of SSR with some quantitative characters in sesame (*Sesamum indicum* L.) (Viva)-**DST- WB. Project Fellow**
12. Rumana Akhtar : Genetic diversity in aromatic landraces in West Bengal and association mapping of some cooking , eating and nutritional quality in rice (*Oryza sativa* L.) (Submitted)- **DST – Inspire- Fellow**
13. Vaskar Subba , Topic :Evaluation of some quality protein maize (QPM) hybrids in West Bengal and their management for improved productivity . (Submitted)-**UGC Rajiv Gandhi National Fellow**
14. Pratima Paul : Topic : Interaction between sulphur and phosphorus in soil in relation to growth , yield , nutrition and quality of rape (*Brassica camprestis* L.) (Submitted)
15. Kashinath Mandal , Topic : Genetic improvement of mustard (*Brassica juncea* L.) with special emphasis to yield , quality and oil content . (Submitted)
16. Archita bhattacharjee , Topic :Heat tolerance in lentil :Screening , Development and Mechanism .(5000)

10. **Projects :**

Completed projects :

Titles of the project	Funding agency and duration	Remarks
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1. Identification of salt tolerant varieties of paddy, sunflower and green gram and study on cropping sequence and integrated nutrient management with organic fertilizer to enhance fertility status of coastal saline tract for augmenting the economic condition of backward classes.	Rastriya Krishi Vikas Jojona(R.K.V.Y) Dept. of Agriculture, Govt. of W.B., 5.1 lakhs for 2008 – 11	P.I
2. Development of salt tolerant high yielding lines of chickpea, field pea and lentil for coastal saline belt of West Bengal.	R.K.V.Y., Dept. of Agriculture, Govt. of W.B., 3.9 lakhs for 2008 – 11.	P.I
3. Development of short duration ,heat tolerant high yielding lines of lentil for gangetic alluvial zone of West Bengal and management for improved productivity	R.K.V.Y., Dept. of Agriculture, Govt. of W.B., 7.78 lakhs, 2009 – 12	P.I
4. Screening low arsenic genotypes in paddy , mustard, sesame, lentil & role of phosphates, silica, selenium in arsenic tolerant mechanism	Rastriya Krishi Vikas Jojona (RKVY), Dept. of Agriculture ,Govt of West Bengal., 94 lakhs for 2009-12.	Co-P.I
5. Collection, characterization and genetic improvement of indigenous short-grained aromatic rice in West Bengal with special emphasis to cooking qualities and yield.	D.S.T., Govt. of W.B., outlay 6.85 lakhs ,2009-2012.	Co-P.I.
6. Radiation induced mutation of white seeded sesame for developing early duration high yielding lines adaptable to agro climatic condition of West Bengal.	Department of atomic energy- UGC consortium research funded project , 4.89 lakhs, 2009-2013	Co-P.I..
7. Sesame Project.	I.C.A.R., 1 lakh per year, 2014	P.I.
8. Genotypic diversity among genotypes and molecular linkage map construction in sesame	University Grant Commission, New Delhi. 2013-'17, Rs.11,31,800.	Co-P.I
9. Restructuring rice genotypes for high yield, early duration, high iron and zinc content through advanced plant breeding.	D.S.T., Govt. of W.B. 2015-'19, 14.7 lakhs	Co-P.I.
10. CSIR- Research Associate working on Salt tolerance in Mungbean through Arbuscular Mycorrhizal Fungi.	Rs. 719360 in 2019-2020	Supervisor of RA

Current projects:

Titles of the project	Funding agency and duration	Remarks
1. All India Coordinated Research Project in Sesame	I.C.A.R. From 2015, initially for 5 years. Rs 26,00,000 yearly with additional grant for infrastructure development and equipments	Co-P.I.
2. Crop breeding Research Unit.	Agriculture Dept. Govt. of	P.I

	W.B. Status Permanent. Rs.9,40,000 per year	
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11. **List of publications:**

a) **Journals : 105**

b) **seminar / symposium: 73**

c) **Books/ book chapters : 8**

Publications :

1. Anirban Nath, Disharee Nath , Atish Barua , Kasturi Majumder , Tapash Dasgupta , **Sabyasachi Kundagrami** .Phenotypic and marker assisted screening of rice genotypes inoculated with three widely available pathogenic strains of *Xanthomonas oryzae* pv *oryzae* Journal of Plant Pathology, 2022 ,<https://doi.org/10.1007/s42161-022-01152-9>.
2. Kashinath Mandal , Aditi Ghosh , T. Dasgupta , **S.Kundagrami** . Genetic variability and trait association in Indian mustard [*Brassica juncea* (L.) Czern and Coss] , Agricultural Science Digest , 2022 , DOI : 10. 18805/ag.D-5550.
3. Kashinath Mandal , Vaskar Subba , T. Dasgupta , **S.Kundagrami** . Combining ability and heterosis for seed yield and yield components in Indian mustard [*Brassica juncea* (L.) Czen and Coss] , Agricultural Reviews , 2022 , DOI : 10.18805/ag.R-2506.
4. Prajjwal Pradhan , Bandan Thapa , Aditi Ghosh , Vaskar Subba , Chowa Ram Sahu , and **Sabyasachi Kundagrami** .Genetic variability assessment on yield attributing traits in maize (*Zea mays* L. The Pharma Inovation Journal , 2022, 11(5) :1642-1645 .
5. Maini Bhattacharjee , **Sabyasachi Kundagrami** and Tapash Dasgupta.Combining ability for quantitative traits in sesame through line x teter analysis . The Bioscan, **16 (1)**: 239-246,2021.
6. Vaskar Subba , Anirban Nath , Aditi Ghosh , Amitava Ghosh , and Sabyasachi Kundagrami . Multivariate analysis for yield and yield attributing traits in quality protein maize (QPM) inbred lines . Current Journal of Applied Science and Technology , **40(39)** : 11-19,2021.
7. Vaskar Subba , Anirban Nath ,**Sabyasachi Kundagrami** , Amitava Ghosh . Study of combining ability and heterosis in quality protein maize using Line X Tester mating design . Agricultural Science Digest : DOI :10.18805/ag.D-5460, 2021.
8. Moushree Sarkar and **Sabyasachi Kundagrami** , Screeing of mungbean accessions under salinity stress .Bangladesh Journals of Botany . **50(3)** , 475-482, 2021 .
9. Moushree Sarkar, Sambit Datta and **Sabyasachi Kundagrami** . Towards quest for early maturing mungbean [*Vigna radiata* L.) lines with improved nutritional quality and high yield , Indian journal of Agricultural Research : DOI : 10 , 18805/IJARE. A 5788 , 2021.
10. Moushree Sarkar and **Sabyasachi Kundagrami** , Unravelling the role of *Glomus mosseae* in the alleviation of salinity stress in mungbean [*Vigna radiata* L.(Wilczek)] , Legume Research : DOI : 10 , 18805/LR-4633, 2021.
11. Pratima Paul , DilipKumar Das , and **Sabyasachi Kundagrami** , Combined effects between P and S in soil on the mobility of N,P,k and S in rape (*Brassica campestris* L.) , Intrnational journal of Tropical Agriculture , **39 (4)** : 473-477 , 2021.
12. Atish Baura, Pritha Choudhury , Niraj Nag , Anirban Nath , **Sabyasachi Kundagrami** , Amit Pal ,Chinmoy Kumar Panda , and Prosenjt Saha . Xanthone from *Swertia chirata* exerts chemotherapeutic potential against colon carcinoma, Current Science , **121** : 1-8, 2021.
13. Maini Bhattacharjee , Kasturi Majumder ,**Sabyasachi Kundagrami** and Tapash Dasgupta . Analysis of genetic diversity using molecular markers among some elite rice genotypes , Current Journal of Applied Science and Technology , **40(42)** : 36-42,2021.
14. Maini Bhattacharjee , **Sabyasachi Kundagrami** and Tapash Dasgupta . Analysis of genetic estimates and divergence of some Indian and exotic genotypes of sesame (*Sesamum indicum* L.) AMA , 51(1) , 2021.ISSN 00845841.
15. Sanhita Ghosh , Anindita Roy , **Sabyasachi Kundagrami** . Efficacy of natural plants extract and ethanomedical dilution on bruchid (*Callosobruchus maculates*) management in storage mungbean

[*Vigna radiata* (L.) Wilczek] , Indian journal of Agricultural Research : DOI : 10 , 18805/IJARE. A 5733 ,2020

16. Maini Bhattacharjee, Kasturi Majumder, **Sabyasachi Kundagrami** and Tapash Dasgupta. . Evaluation of Recombinant Inbred Lines for Higher Iron and Zinc Content Along with Yield and Quality Parameters in Rice (*Oryza sativa* L.). *Indian Journal of Agricultural Research*. DOI .10.18805/IJARE.A-5454, 2020 .
17. P. Bhattacharjee , **S. Kundagrami** , A. Bhattacharjee . Studies on variability parameter and character association of lentil germplasms in west Bengal condition . *Legume research* , 10.18805/L.R.-4289 , 1-5, 2020.
18. Sanhita Ghosh, Anindita Roy, **Sabyasachi Kundagrami** Screening of Mungbean [*Vigna radiata* (L.) Wilczek] Genotypes against Bruchid (*Callosobruchus maculatus*) to Reduce Postharvest Losses. *Legume Research*, DOI .10.18805/ LR-4354 ,2020 . Print ISSN: 0976-0571. E-ISSN: 0250-5371.
19. Vaskar Subba , Aditi Ghosh , Amitava Ghosh and **Sabyasachi Kundagrami** . Genetic variability of agromorphological characters in some QPM inbred lines , *Indian Biologist* , **51(2)**: 1-7, 2019 .
20. Pratima Paul , Dilip Kumar Das, and Sabyasachi Kundagrami ,Interaction between S and P on their availability on soil , *Indian Biologist* , **51(2)**: 41-45, 2019 .
21. Sanhita Ghosh Anindita Roy , **Sabyasachi Kundagrami** , Character Association Studies on Yield and Attributing Traits of Fifty two Mungbean [*Vigna radiata* (L.) Wilczek] Genotypes. *International Journal of Current Research and Review*. **11(12)**: 25-28. 2019 .Print ISSN: 2231-2196, Online ISSN: 0975-5241.
22. Sanhita Ghosh Anindita Roy , **Sabyasachi Kundagrami** . Diversity analysis of mungbean [*Vigna radiata* (L.) Wilczek] genotypes for bruchid resistance. *Indian Journal of Agricultural Research*. **53(3)**: 309-314. Print ISSN: 0367-8245, 2019 .Online ISSN: 0976-058X. .
23. Roy A., Ghosh S., **Kundagrami S.** Food Processing Methods towards Reduction of Antinutritional Factors in Chickpea. *Int.J.Curr.Microbiol.App.Sci*. **8(1)**: 424-432 ,2019. Print ISSN: 2319-7692, .Online ISSN: 2319-7706.
24. Himadri Shekher Das and **Sabyasachi Kundagrami** . Utilization of gamma rays in greengram (*Vigna radiate*(L.) Wilczek) to create variability for desirable traits in M1 generation . *Indian Biologist* , **51 (1)** :1-9 , 2019.
25. Himadri Shekher Das and **Sabyasachi Kundagrami** . Selection for high yielding short duration MYMV tolerance lines in greengram from segregating populations . *Indian Agriculturist* , **63 (2)** 87-95 , 2019.
26. Biswajit Pradhan , Moushree Sarkar and **Sabyasachi Kundagrami** , Alcohol dehydrogenase (Adh)Enzyme is a potent biochemical marker for submergence tolerance in rice (*Oryza sativa* L.) during seedling stage of growth, *International journal of current research and Review* , **11(6)**:16-21, 2019.
27. Anindita Roy , Sanhita Ghosh and **S.Kundagrami** . Nodulation pattern and its association with seed yield in chickpea(*Cicer arietinum* L.) germplasms ,*Indian J. Agric. Res.*, **53(2)** :172-177, 2019.
28. Vaskar Subba , Amitava ghosh , Aditi Ghosh and **Sabyasachi Kundagrami**. Multivariate analysis in quality protein maize (QPM) hybrids for grain yield and its attributing traits . *Indian Agriculturist* , **63(2)** : 109-115 , 20019.
29. Aditi Ghosh, Prakash Kanti Das, Amitava Ghosh and **Sabyasachi Kundagrami** .Heterosis, Potence Ratio and Genetic Distance for yield and yield contributing traits in single cross maize hybrids. *Maydica*, [S.l.], v. 63, n. 1, p. 9 , 2018.
30. Anindya Santra and **Sabyasachi Kundagrami** , Role of kalmegh extract on store grain pests , germinability and seedling vigour of pulses , *Indian Biologist*, **50(2)**, 7-12, 2018.

31. Aditi Ghosh , Vaskar Subba , Prakash kanti Das , Amitava Ghosh and **Sabyasachi Kundagrami** . Gene action for cob characters and grain yield in quality protein maize (QPM) inbreds based on Hayman’s approach , Indian Agriculturist , **62(1)** , 9-17, 2018.
32. Moushree Sarkar and **S.Kundagrami** . Selection for high yielding , extra short duration lines of mungbean derived through gamma radiation , Indian J. Genet., **78(2)**: 233-241 , 2018.
33. Ghosh S.C. , Dasgupta T, Sharma D., Chandrakar P.K.,Rastagi N.K., Sarawgi A.K., **Kundagrami S.** Gene action and fertility restoration behavior of the tropical japonica/ indica , japonica/indica and indica derived restorers crosses using CMS breeding system in rice (*Oryza sativa* L). International Journal of Genetics , **10(9)** , 485-489, 2018.
34. Debashree Roy Choudhury and **Sabyasachi Kundagrami** , Character association of seed yield and its components in some lentil (*Lens culinaris* Medik.) genotypes under normal and late sown condition, Legume Research , **41(5)** , 693-701, 2018 .
35. Moushree Sarkar and **Sabyasachi Kundagrami** . Germplasm x Environment interaction and stability far seed yield component and maturity duration in mungbean . International journal of current research , **9(2)** : 45993-45998 , 2017.
36. Anindita Roy , Sanhita Ghosh , Rahul Ghosh and **S.Kundagrami**. In quest for high yielding with improved quality genotypes in chickpea (*Cicer arietinum*) , Indian Agriculturist , **59 (4)** :227-231 , 2017 .
37. Mousumi Das and **Sabyasachi Kundagrami** . Screening for high productive salt tolerant mutant M4 lines in chickpea (*Cicer arietinum* L.). Legume Research,**41(3)** ,356-362 , 2018.
38. Pradhan Biswajit , Kundu Sritama , Santra Anindya , Sarkar Moushree and **Kundagrami Sabyasachi** .Breeding for submergence tolerance in rice (*Oryza sativa* L.) and its management for fresh flood in rainfed low land areas : A review. Agricultural Review , **38(3)** : 167-179 , 2017.
39. Anindita Roy , Sanhita Ghosh , Rahul Ghosh and **S.Kundagrami**. In quest for high yielding with improved quality genotypes in chickpea (*Cicer arietinum*) , Indian Agriculturist , **59 (4)** :227-231 , 2017 .
40. G.B.Bhattacharya , T.Dasgupta , **S.Kundagrami** , and A.Saha .Stability study for fibre yield of hybrid tossa jute (*Corchorus olitorius* L.) over environments. Indian Biologist , **49(1)** :23-30 , 2017
41. Pradhan Biswajit, Kundu Sritama and **Kundagrami Sabyasachi** . Genetic variability and character association for yield and yield components in submergence tolerant rice varieties . Indian J. Agric. Res. **51 (3)**, 239-244, 2017.
42. Sanhita Ghosh , Anindita Roy and **S. Kundagrami** .Genetic implication of quantitative traits and their interrelationship with seed yield in mungbean (*Vigna radiate* L. Wilczek) . Indian Agriculturist . **60(3& 4)**, 247-254, 2016.
43. Moushree Sarkar and **Sabyasachi Kundagrami** . Morphophysiological and biochemical characterization of mungbean (*Vigna radiate* L. Wilczek) .Indian Biologist , **48 (2)** :19-27 , 2016 .
44. Biswajit Pradhan , Sritama Kundu and **Sabyasachi Kundagrami** . Study of physical and biochemical grain quality parameters in rice genotypes for submergence tolerance . Indian Agriculturist .**60 (1& 2)** : 29-37 , 2016.
45. G.B.Bhattacharya , T.Dasgupta , **S.Kundagrami** and A.Saha .Fibre yield heterosis in tossa jute (*Corchorus olitorius* L) across environment . Indian Agriculturist .**60 (1& 2)** : 29-37 , 2016.
46. Dr. Biswajit Pradhan , Moushree Sarkar , & **Dr. Sabyasachi Kundagrami** , Role of slow elongation of stem and induction of of alcohol dehydrogenase (Adh) enzyme for increment of survival under submergence condition in rice (*Oryza sativa* L.), Imperial journal of interdisciplinary research (IJIR), **2(7)** : 486-492, 2016.
47. Dr. Biswajit Pradhan , Dr. Sritama Kundu & **Dr. Sabyasachi Kundagrami** , shoot and root anatomy and reduced increase of aerenchyma diameter linked with submergence tolerance in rice (*Oryza sativa* L.), Imperial journal of interdisciplinary research (IJIR), **2(11)** : 260-266, 2016.

48. Biswajit Pradhan and **Sabyasachi Kundagrami** , Study of relationship between carbohydrate components of stem and survival % by genetic correlation and path analysis for submergence tolerance in rice (*Oryza sativa* L.) , Research journal of recent Sciences , **5(8)** : 1-10 , 2016.
49. Moushree Sarkar and **Sabyasachi Kundagrami** , Multivariate analysis in some genotypes of mungbean (*Vigna radiata* (L.) Wilczek) on the basis of agronomic traits of two consecutive growing cycles . Legume Research , **39(4)** :523-527, 2016.
50. Anindita Roy , Sanhita Ghosh , **S.Kundagrami** , Genetic approach and biometrical application of yield attributing traits in chickpea (*Cicer arietinum* L.), International Journal of Science and Research (IJSR) , **5(7)** :2208 -2212, 2016.
51. Pradhan Biswajit , Kundu Sritama and **Kundagrami Sabyasachi** . Approaches towards the development of submergence tolerance in rice through hybridization. International Journal of Current Research ,**8(10)** : 39633-39639 , 2016.
52. D.Roychoudhury & **S.Kundagrami** , Stability for different characters in variable environment in lentil (*Lens culinaris* Medik) , Electronic Journal of Plant Breeding , **7(2)** :235-252, 2016.
53. H.S.Das ,**S.Kundagrami** , M.Sarkar ,S.Sarkar ,& B.Sarkar . Genetic variability and trait association of seed yield and yield components in mungbean (*Vigna radiata* (L.) Wilczek), SATSA Mukhopatra-Annual Technical Issue **20**:161-166,2016
54. Pradhan Biswajit , Kundu Sritama ,and **Kundagrami Sabyasachi** . Role of seed treatment with herbal plant products and management practices with growth nutrients by decreasing chlorophyll reduction rate for overcoming submergence stress in rice (*Oryza sativa* L.), International Research Journal of Biological Sciences , **4(5)**, 38-43, 2015.
55. Pradhan Biswajit and **Kundagrami Sabyasachi** . Effect of Gibberellic and Ethylene Substances For Submergence Tolerance in Rice (*Oryza sativa* L.) , Research Journal of Agriculture and Forestry sciences, **3(4)**, 7-10,2015.
56. Kundu Sritama, Pradhan Biswajit, and **Kundagrami Sabyasachi** .Study of genetic parameters and character association of different agromorphological characters in some paddy genotypes for saline and non saline belt of West Bengal , India. Research Journal of Agriculture and Forestry Sciences, **2(5)**, 6-15, 2015.
57. Sritama Kundu and **Sabyasachi Kundagrami**. Estimation of path coefficient analysis to identify the yield contributing traits in rice (*Oryza sativa* L.) under saline and non-saline coastal regions of West Bengal. Journal of Advances in Biology ,**8(1)** :1433-1438, 2015.
58. **Sabyasachi Kundagrami**, Harbal seed treatment-a tool for improving crop productivity under abiotic stresses. UK- India Agro-ecology Initia :21-23 February,2015.
59. A.Santra , A.Chatterjee , M.sarkar , and **S.Kundagrami**, Allelopathic effect of Kalmegh seed extract over various cereal and pulse seed germination become beneficial if diluted . Indian Biologist , **47(1)**, 29-33, 2015.
60. Aditi Ghosh, Vaskar Subba, Anindita Roy, Amitava Ghosh and **Sabyasachi Kundagrami**. Genetic variability and character association of grain yield components in some inbred lines of maize (*Zea mays* L) .Journal of Agroecology and Natural Resource Management .**1(2)**:34-39.2014.
61. Moushree Sarkar, Sanhita Ghosh and **S.Kundagrami**. Genetic variability and character association of yield and yield components in mungbean (*Vigna radiata*(L.) Wilczek) . Journal of Agroecology and Natural Resource Management .**1(2)**:34-39.2014.
62. G.B.Bhattacharya, **S Kundagrami** , K.K. Goswami and T.Dasgupta. Genotype environment studies of fibre yield in hybrid jute (*Corchorus olitorius* L.) under ago-ecosystems. Indian Biologist. **46(1)** :47-50, 2014
63. A.Santra, M.Sarkar and **S.Kundagrami** . Imposition of abiotic stresses and practice of of ratooning for morphological and biochemical upgradation of kalmegh (*Andrographis paniculata* Nees) genotypes . Indian Agriculturist , **4**, 261-268,2014.
64. Moushree Sarkar, Sanhita Ghosh and **S.Kundagrami** .Study of genetic divergence and seed yield components in greengram (*Vigna radita* L. Wilczek) , J. Botan. Soc. of Bengal, **68(2)** : 119-122, 2014.
65. G.B.Bhattacharya, **S Kundagrami** , and T.Dasgupta. Performance and Heterosis of hybrid jute under two agro-ecosystem .Indian Biologist. **46(1)** :47-50, 2014

66. S.Kundu and **S.Kundagrami** . Screening for suitable paddy genotypes for coastal saline belt of West Bengal . *Oryza* , **50(2)** ,2013.
67. B. Pradhan, m.sujauddin , S.kundu, S.Shit and **S.Kundagrami**. Laboratory screening for submergence tolerance in rice (*Oryza sativa* L.) *Indian Biologist*, **45** : 55-64, 2013.
68. B.Pradhan , S.Kundu and **S.Kundagrami** .Screening for submergence tolerance in rice . Extended summery published in pp36 of ARRW Golden Jubilee Symposium, March 02-05, 2013.
69. S.Kundu, B.Pradhan and **S.Kundagrami** . Comparison for efficacy of different screening techniques for salinity in rice (*Oryza sativa* L.) Extended summery published pp 34 of ARRW Golden Jubilee Symposium, March 02-05, 2013.
70. Kundu , B.Pradhan , a. Santra , A Datta Choudhury and **S.Kundagrami** , Effect of herbal seed treatments and hoglang nutrient solution on improving vogour and productivity of rice (*Oryza sativa* L.) , *J. Botan. Soc. of Bengal*, **67(1)**, 29-36, 2013.
71. M.Das, D.Raychoudhury , and **S.Kundagrami** , Screening of chickpea (*Cicer arietinum* L.) germplasms for salinity tolerance . *Indian Biologist* , **45 (1)** , 95-104, 2013
72. **S. Kundagrami** , S. Kundu, and B.Pradhan . Development of high productive , good quality salt tolerant lines of paddy for coastal saline belt of West Bengal . Paper in the National seminar on Recent Advances in Rice Genomics and Biotechnology , organized by Dept. of Biotechnology and Pally Siksha Bhavan, Viswa varathi, Shantiniketon , March 23-24, 2013.
73. D.Raychoudhury ,A.Santra ,J.K.Barman,M.Das, **S.Kundagrami**. Effect of herbal seed treatment on improving vigour and productivity of lentil (*Lens culinaris* Medik.) in heat stressed condition . *Indian biologist*. **45(2)** :65-72,2013.
74. Mousumi Das, Tsherring Bhutia, Deboshree Raychoudhury and **Sabyasachi Kundagrami**. Screening for high productive salt tolerant lines of chickpea (*Cicer arietinum*) for coastal saline belt of West Bengal .*Indian Agriculturist*. **57(2)**:131-139,2013.
75. A.Santra and **S.Kundagrami** , Variability study of Kalmegh germplasms and their morphological and biochemical upgradation by colchicines treatments, *Indian Biologist*, **45(1)**, 119-124,2013.
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List of Publications in seminar / symposium:

1. Maini Bhattacharjee, Kasturi Majumder, **Sabyasachi Kundagrami** And Tapash Dasgupta, "Evaluation of rice genotypes with special emphasis on iron and zinc content" International Conference on Global Perspective in Agricultural and Applied Sciences for Food and

- Environmental Security (GAAFES-2019), at Kumaun University, Uttarakhand, during 1-2 December, 2019.
2. Disharee Nath, Anirban Nath and **Sabyasachi Kundagrami**, Screening of rice genotypes for resistance against three strains of *Xanthomonas Oryzae* using phenotypic and molecular markers. International Conference on Global Perspective in Agricultural and Applied Sciences for Food and Environmental Security (GAAFES-2019), at Kumaun University, Uttarakhand, during 1-2 December, 2019.
 3. Ghosh S., Roy A., **Kundagrami S.** (2019). Poster entitled '**Role of Secondary Metabolites as Defenses against Bruchid Attack in Mungbean [*Vigna radiata* (L.) Wilczek]**'. Abstract published in International Conference 2019 on "Global Perspective in Agriculture and Applied Science for Food and Environmental Security (GAAFES-2019)", organized by The Agricultural and Environmental Technology Development Society (AETDS) at UGC-HRDC Hall, Kumaun University, Nainital, Uttarakhand, India on December 1-2, 2019.
 4. Sarkar, M., Ghosh, S and **Kundagrami, S.** Oral presentation on "Arbuscularmycorrhizal fungi (AMF) in the alleviation of salinity stress of mungbean [*Vignaradiata* (L.) Wilczek]". **Abstract paper** in International Conference on "Global perspective in agricultural and applied sciences for food and environmental security" (vol 1) at Nainital, India in 1-2 December 2019.
 5. Ghosh A., **Kundagrami S.,** Ghosh A (2019). Poster presentation entitled 'Developing maize hybrids in a changing climate for food and nutritional security in eastern india'. International Conference on "Global Perspective in Agricultural and Applied Sciences for Food and Environmental Security (GAAFES-2019)" in collaboration with Department of Geography, Kumaun University, Nainital, Uttarakhand, India and Agriculture and Forestry University (AFU), Chitwan, Nepal on December 1-2, 2019 at UGC-HRDC Hall, Kumaun University, Nainital, Uttarakhand, India.
 6. Souvik Roy, Maini Bhattacharjee, Umananda Arambam, **Sabyasachi Kundagrami** and Tapash Dasgupta "Variability study of sesame in F4 population of EC-90 and Savitri" at the 3rd Regional Science & Technology Congress (Southern Region), 2018 during December 18-19 at the Bidhannagar College, Govt. of West Bengal.
 7. Moushree Sarkar, Suvro Ghosh and **Sabysachi Kundagrami**. Screening of Mung bean germplasm for salinity tolerance. Abstract paper published in page 92 in National symposium on Role of resource management in Agriculture in the context of Food security, nutrition and economy organized by the agricultural society of India and Institute of Agricultural Science, University of Calcutta on December 15-17, 2018.
 8. Biswajit Pradhan and **Sabysachi Kundagrami**. Alcohol dehydrogenase enzyme is a potent marker for submergence tolerance in rice. Abstract paper published in page 94 in National symposium on Role of resource management in Agriculture in the context of Food security, nutrition and economy organized by the agricultural society of India and Institute of Agricultural Science, University of Calcutta on December 15-17, 2018.
 9. Anindita Roy, Sanhita Ghosh and **S. Kundagrami**. Study on the effect of processing method on anti nutritional factors in Chickpea. Abstract paper published in page 100 in National symposium on Role of resource management in Agriculture in the context of Food security, nutrition and economy organized by the agricultural society of India and Institute of Agricultural Science, University of Calcutta on December 15-17, 2018.
 10. Maini Bhattacharjee, Tamina Begum, **Sabyasachi Kundagrami** and Tapash "DNA fingerprinting of some Indian sesame variety" National Symposium on "Role of Resource management in agriculture in the context of food security, nutrition and economy", held during December 15-17, 2018 at Kennedy hall, Institute of jute technology, University of Calcutta organised by The Agricultural Society of India in collaboration with Institute of Agricultural Science, University of Calcutta.
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15. Aditi Ghosh ,Amitava Ghosh and **Sabyasachi Kundagrami** . Weather oscillation and their impact on maize inbreds and their hybrids , Abstract Paper published in 185 on National Genetics Congress on Genetics for Sustainable Food, Health and Nutrition Security at ICAR-Indian Agricultural Research Institute, New Delhi, India, December 14-16, 2018.
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b) **Books/ book chapters :**

1. Anindita Roy , Sanhita Ghosh and **Sabyasachi Kundagrami** .Strategies towards household food processing for lowering antinutritional factors in chickpea (*Cicer arietinum* L.) . In : Proceeding of BIOSPECTRUM : The international Conference on Biotechnology and Biological Sciences : Biotechnological intervention towards enhancing food value by Nova Science Publishers, Inc, in Chapter 2, 2022 DOI: <https://doi.org/10.52305/LAOH6077>.
2. Adil Iqbal , Rambilash Mallick and Sabyasachi Kundagrami. Study on diversity in sesame . Book chapter published in chapter 1 on Current Tropics in Agricultural Sciences , **7** : 1-10, 2022.
3. D.Raychoudhury, M.Das and **S.Kundagrami**. Screening for salinity tolerance and management for improved productivity in chickpea and lentil. Book chapter published in chapter No. 21 in Integrated Rural Development and Management: Issue, strategies and Policy Options By Agrobios , pp . 195-201,2012.
4. S.Kundu and **S.Kundagrami**. Screening for salinity tolerance in rice and management . Book chapter published in chapter No. 20 in Integrated Rural Development and Management: Issue, strategies and Policy Options By Agrobios , pp . 182-194,2012.
5. B. Pradhan and **S.Kundagrami**. Breeding for submergence tolerance in rice (*Oryza sativa* L.) . Published in page no . 152-167 in the edited book of the Proceedings of National seminar on "Resource based inclusive Agriculture and rural Development : opportunities and challenges " organized by IRDM centre , RKMVRI in collaboration with APBI ,University of Calcutta on 15-16 January , 2016 , Ed. By Prof Prakash Kanti Das and published by IRDM centre , RKMVRI in collaboration with APBI ,University of Calcutta, ISBN No. 978-93-84425-20-3.
6. M. Sarkar , A. Bhattacharyya , P.K.Das and **S. Kundagrami** . Variability , character association and genetic parameters in mungbean [*Vigna radiata* (L) Wilczek] . Published in page no . 71-77 in the edited book of the Proceedings of National seminar on "Resource based inclusive Agriculture and rural Development : opportunities and challenges " organized by IRDM centre , RKMVRI in collaboration with APBI ,University of Calcutta on 15-16 January , 2016 , Ed. By Prof Prakash Kanti Das and published by IRDM centre , RKMVRI in collaboration with APBI ,University of Calcutta, ISBN No. 978-93-84425-20-3.
7. Aditi Ghosh, Nayan Sankar Bagdi, Amitava Ghosh , Prakash Kanti Das and **Sabyasachi Kundagrami** . Performance of single cross maize hybrid evaluated for grain yield and associated traits . Published in page no . 90-95 in the edited book of the Proceedings of National seminar on "Resource based inclusive Agriculture and rural Development : opportunities and challenges " organized by IRDM centre , RKMVRI in collaboration with APBI ,University of Calcutta on 15-16 January , 2016 , Ed. By Prof Prakash Kanti Das and published by IRDM centre , RKMVRI in collaboration with APBI ,University of Calcutta, ISBN No. 978-93-84425-20-3.

8. Moushree Sarkar , Sambit Datta and **Sabyasachi Kundagrami** . Global climate change and mungbean production : a roadmap towards future sustainable agriculture . In : Sustaining Future Food security , Editors : D. Pandey & A.sarkar by Nova Science Publishers, Inc, in Chapter 5 pp.99-121, 2017

12. **Membership of Learned Societies:**

- Former Member of **SYNDICATE** , University of Calcutta .
- Former Member of Hybrid Rice Development Consortium(HRDC) of IRRI, Philippines
- Executive Body Member , Association For Plant Breeding And Improvement , Kolkata
- Executive Body Member , Association of Biological Sciences, Kolkata.
- Editorial member, International journal of Agriculture, environment and biotechnology, New Delhi.
- Executive Body Member, Agricultural Societies of India, Kolkata..
- Member Senate , Calcutta University .

16. **Other notable activities :**

- Development of salt tolerant lines in Paddy and Chickpea , Submergence tolerance lines in Paddy , Heat tolerance lines in Lentil .
- First report of Yellow Mosaic Virus(YMV) resistant linked DNA marker in Black gram(*Vigna mungo* (L.) Hepper). Molecular Breeding,**14** :375-383,2004; International Journal of Plant Breeding & Genetics,**3(1)**:1-10,2009 & Mol . Biotechnology ,**47**:95 – 104, 2011.
- Gene registration in NCBI against Yellow Mosaic Virus with gene bank ID AY297425.
- Paper setter and Examiner , Uttar Banga Krishi Viswavidyalay and Visva Bharati .
- Obtained Reviewer Excellence Award from Indian Journal of Agricultural Research (ARCC journal) in 2019.