

➤ **SHASHI BHUSHAN CHOUDHARY**

➤ Designation : Scientist

➤ Research area: Molecular biology, mutation, plant genetic resource management

➤ Address : Crop Improvement Division, Central Research Institute for Jute and Allied Fibres
(ICAR), Barrackpore, Kolkata-700 120, West Bengal,
Tel: +91033-25351932 (extn255) Fax: +91 033-2525 0415,

E-mail: shashigen@gmail.com

➤ Date of birth: 01-July-1983

➤ Name of institute: Central Research Institute for Jute and Allied Fibres (CRIJAF),
Barrackpore, Kolkata-700 120, West Bengal;
Tel: +91 033-2535 6121 × 236 (O), Fax: +91 033-2525 0415
Email: shashigen@gmail.com

Academic qualification

Degree	Subject	Year	Marks (percentage / OGPA)	University/Institution
B.Sc (Ag.)	Agriculture	2004	80.20	B.H.U, Varanasi, U.P.
M.Sc.	Genetics	2006	8.1	I. A. R. I., New Delhi
Ph.D	Plant Breeding	2009	7.9	I. A. R. I., New Delhi

Awards & Fellowships:

- I.C.A.R. J R F (2004 to 2006)
- C.S.I.R. JRF (2006 to 2009)

Employment History

Period (Year)	Name of the examination/Degree / Post as applicable	Area of specialization/ Subjects	Name of Institute/ University/	Number of Journal Publications
2009 to till date	Scientist	Molecular breeding and genetics	Indian Council of agricultural Research	Nine

Institute Project handled/associated:-

- Project:- J B 8.9 “Induction and utilization of mutation in tossa jute (*C. olitorius*)” (PI)
- Project:- J B 8.8. “Evaluation of tossa jute (*C. olitorius*) for leafy vegetable purpose” (PI)
- Project:- J B 9.2. “QTL mapping for fibre quality in tossa jute (*C. olitorius*)” (PI)
- Project:- J B 1.1. “Introduction, maintenance, characterization and evaluation of jute, mesta and flax germplasm” (Co-PI)

Externally funded projects:

“Induction and characterisation of tossa jute (*C. olitorius*L.) mutants for fibre yield attributes and quality parameters” sponsored by Board of Research in Nuclear Science, Department of Atomic Energy, Govt. of India

Training/refresher course/ summer/ winter schools/ attended

1. Attended national level training on “New frontiers in jute and allied fibre research and technology development” from 07th to 16th April, 2011 at CRIJAF, Barrackpore.

Publications

1. H.K. Sharma, P. Satya, **S.B. Choudhary**, C.S. Kar, J. Mitra and P.G. Karmakar. 2012. Determination of threshold and screening for salt tolerance in jute. Indian J. Agric. Res. 46(4): 324-330.
2. Sinha MK, Karmakar PG, Sarkar D, Kar CS, Satya P, Mitra J, Pandey SK, **Choudhary SB**, Sharma H.K., Lal J. 2011. Genetics and Breeding of Jute and Mesta in India. In: A compilation of Papers and Proceedings of International Seminar on Strengthening of Collaboration for Jute, Kenaf and Allied Fibres Research and Development. September 2011. International Jute Study Group, Dhaka.
3. Karmakar, PG, Sinha, MK., Kumar, D, Mitra, J, Kar, CS, Satya, P, Pandey, SK, **Choudhary, SB**, Sharma, H.K. and Jatothu, JL.2011. Promising varieties of Jute and Mesta. In: book of chapters of national training on “New frontiers in jute and allied fibre research and technology development” from 07th to 16th April, 2011 at CRIJAF, Barrackpore.

Seminar/ Symposium/ Conference attended:National and International

- 1.**S. B. Choudhary**, P. G. Karmakar, H. K. Sharma,A. Anil Kumar’ 2013. Mutation in tossa jute (*C. olitorius*)-An approach to enrich genetic diversity. First International conference on Bioresource and stress management at Kolkata from 6-9 Feb, 2013 organized by R.K. Maiti foundation, Kolkata (**Oral presentation**)
2. **S. B. Choudhary**, P. G. Karmakar, H. K. Sharma,A. Anil Kumar, D. Saha.Genetic diversity of flax germplasm in India. “Jute and allied fibres in changing times: issues and strategies” NIRJAFT on 3rd to 5th January, 2013 at NIRJAFT, Kolkata Book of abstract. Pp.27 (**Oral presentation**)
- 3.**S.B. Choudhary**, H.K. Sharma, A. Anil Kumar, P.G. Karmakar, M. Sadhuka, S. Das. 2013. Screening of tossa jute (*Corchorus olitorius*) mutants for drought tolerance. International Conference on Agriculture and Climate Change (ICACC) at TERI, New Delhi from 29-30 Jan, 2013. pp.101. (**Poster presentation**)

4.

Acted as resource person in training/short course

1. Delivered a lecture on “Protection of Plant Varieties and Farmers’ Rights Act” in training-cum-awareness programme on PPV&FRA held on 1st March, 2012 at CRIJAF, Barrackpore.
2. Delivered a lecture on “Improved Production technology for flax” in training programme for State Agricultural Officers of Govt. of Uttar Pradesh. 2013, at CRIJAF, Barrackpore.

Student guided

- Imparted one month training to one M.Sc. (Biotechnology) students on “Study of parental polymorphism using molecular markers in tossa jute (*C. oleriorius*)”

Special assignment (International organizations)

- Acted as member of Monitoring Team to monitor the DAC-ICAR-ICARDA collaborative project on Lentil and Grasspea in West Bengal during 2nd march to 6th March, 2013

List of publications during the last 5 years

1. **Choudhary SB**, Sharma HK, Kumar AA, Maruthi RT, Mitra J, Chowdhury I, Singh BK, Karmakar PG. 2017. SSR and morphological trait based population structure analysis of 130 diverse flax (*Linum usitatissimum* L.) accessions. *Comptes Rendus Biologies*. 340(2):,65–75
2. Sharma HK, Sarkar M, **Choudhary SB**, Kumar AA, Maruthi RT, Mitra J, Karmakar PG. 2016. Diversity analysis based on agro-morphological traits and microsatellite based markers in global germplasm collections of roselle (*Hibiscus sabdariffa* L.). *Industrial Crops and Products* 89: 303–315
3. Kumar AA, Sharma HK, **Choudhary SB**, Maruthi RT, Jawahar LJ, 2016. Combining Ability and Heterosis Study for Fibre Yield and Yield Attributing Characters in Tossa Jute (*Corchorus oleriorius* L). *Vegetos* 29:3.
4. **Choudhary SB**, Kumar M, Chowdhury I, Singh RK, Pandey SP, Sharma HK and Karmakar PG 2016. An efficient and cost effective method of RNA extraction from mucilage, phenol and secondary metabolite rich bark tissue of tossa jute (*C. oleriorius* L.) actively developing phloem fiber. *3Biotech* (Accepted on 21 March 2016 for publication in *3Biotech*). DOI 10.1007/s13205-016-0415-9.
5. **Choudhary SB**, Sharma HK, Karmakar PG, Saha AR, Hazra P, Kumar AA. 2013. Nutritional profile of cultivated and wild jute (*Corchorous*) species. *Australian Journal of Crop Science*. 7(13):1973-1982
6. Sharma HK, Satya P, **Choudhary SB**, Kar CS, Mitra J and Karmakar PG. 2012. Determination of threshold and screening for salt tolerance in jute. *Indian J. Agric. Res.* 46(4): 324-330.

7. **Choudhary SB**, Sharma HK, Kumar AA, Maruthi RT, Karmakar PG. 2016. The genus *Corchorus* L. (Malvaceae) in India: species distribution and ethnobotany. Genet Resour Crop Evol. DOI 10.1007/s10722-016-0465-1
8. **Choudhary SB**, Chowdhury I, Singh RK, Pandey SP, Sharma HK, Kumar AA, Karmakar PG, Souframein J, Jambhulkar SJ. 2017. Morphological, histobiochemical and molecular characterisation of low lignin phloem fibre (*llpf*) mutant 5 of dark jute (*Corchorus olitorius* L.) ApplBiochemBiotechnol. DOI 10.1007/s12010-017-2477-5

Awards and recognitions:

1. Received second prize for poster presentation of paper on “Harnessing biotechnology to understand molecular basis for lignin down regulation in lignin deficient tossa jute (*Corchorus olitorius* L.) mutant” authored by S.B.Choudhary, I. Chowdhury, R.K. Singh, S.P. Pandey, **H.K. Sharma**, A. Anil Kumar, Maruthi R.T., P.G. Karmakar, in national seminar on “Sustainable Agriculture for Food Security and Better Environment” at BCKV, Mohanpur, Barrackpore, Kolkata from 17-18 December, 2015.
2. Invited to review the manuscripts in **PLOS ONE** on “Development and characterization of 1906 EST-SSR markers from unigenes in jute”.