

CURRICULUM VITAE

DR. SIVA PRASAD KONWAR CHETRI

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PERSONAL DETAILS:

Father's Name : Mr. Karna Chetri

Date of Birth : February 13, 1980

Sex : Male

Languages Known : English, Hindi, Assamese

Nationality : Indian

EDUCATIONAL QUALIFICATIONS:

S. No.	Course	Year	Institute	University/Council/Board
1	Ph.D. (Botany)	2015	Department of Botany University of Delhi	University of Delhi
2	M. Phil. (Botany)	2007	Department of Botany University of Delhi	University of Delhi
3	M.Sc (Botany)	2005	Department of Botany Gauhati University	Gauhati University, Assam
4	B.Sc. (Hons.) Botany	2002	Arya-Vidyappeth College, Guwahati, Assam	Gauhati University, Assam
5	Senior Secondary (12th)	1999	Cotton College, Guwahati, Assam	A.H.S.E.C. Guwahati,, Assam
6	High School (10th)	1996	St. Francis De Sales School, Dhemaji, Assam	S.E.B.A. Guwahati,, Assam

➤ Qualified NET (2014)

➤ Qualified SLET (2014)

➤ Qualified GATE (2009)

RESEARCH EXPERIENCE:

➤ **Ph.D. on the topic entitled:** “Biotechnological and biochemical investigations on two medicinal plants *Cassia angustifolia* vahl and *Psoralea corylifolia* linn. and cloning of isochorismate synthase, key enzyme gene involved in sennoside biosynthetic pathway” in the Department of Botany, University of Delhi under the supervision of Prof. Veena Agrawal.

- **M.Phil. (2006)** in the Department of Botany, University of Delhi under the supervision of Prof. Veena Agrawal on the Dissertation entitled: “*In vitro* studies on *Tephrosia purpurea* Pers. and its bioefficacy against *Spodoptera litura*, a polyphagous pest”.
- **Awarded Senior Research Fellow (S.R.F.)** by **Indian Council of Medical Research (ICMR), New Delhi** in the research project entitled “*In vitro* evaluation, isolation and up-regulation of anticancerous bioactive compounds from *Cassia angustifolia* (senna) through elicitors and cloning and characterization of isochorismate synthase (ics) gene involved in anthraquinone biosynthetic pathway”. w.e.f. 29.04.2013 to 28.04.2015.
- **Project Fellow** in a UGC major Research Project entitled “Biodiversity and *in vitro* selection of plants of *Psoralea corylifolia* yielding high content of psoralen, daidzein and genistein” under the supervision of Prof. Veena Agrawal w.e.f. 29.10.2007 to 16.03.2009.
- **Senior Research Fellow (S.R.F.)** in a National Oilseeds and Vegetable Oils Development (NOVOD) Board (I.C.A.R.) Major Research Project entitled “Development of Tissue culture protocol for mass propagation using elite *Jatropha* line & their biochemical evaluation” under the supervision of Prof. Veena Agrawal w.e.f. 17.03.2009 to 31.03.2012.
- **Project Fellow** in a UGC major Research Project entitled “*In vitro* evaluation, isolation and up regulation of anticancerous bioactive compounds from *Cassia angustifolia* (Senna), through elicitors and their bioefficacy against human cancer cell lines” w.e.f. 19.09.2013 to 19.12.2013 under the supervision of Prof. Veena Agrawal, Department of Botany, University of Delhi.

TEACHING EXPERIENCE:

- Assistant Professor at Dimoria College, Khetri, Kamrup (Metro) w.e.f. 20.06.2016 to till date.
- Assistant Professor (Adhoc) at Sri Aurobindo College, University of Delhi w.e.f. 07.09.2015 to May 30, 2016.
- Assistant Professor (Adhoc) at Hansraj College, University of Delhi w.e.f. 18.08.2015 to 4.09.2015.
- Assistant Professor (Guest) at Sri Guru Tegh Bahadur Khalsa College, University of Delhi w.e.f. 23.01.2015 to 20.03.2015
- Assistant Professor (Guest) at Sri Aurobindo College, University of Delhi w.e.f. 24.02.2015 to 24.04.2015; 29.07.2015 to 4.09.2015.

Research Projects: Science and Engineering Research Board (SERB) Project (File Number: TAR/2020/000184, Dated: 18-Nov-2020) for three years (2021-2023) entitled "Study on the bioactive compounds of five ethno-medicinal plants of Assam" under Teachers Associateship for Research Excellence (TARE) [Amount Rs 18.30 lakhs].

AREA OF RESEARCH: Bioinformatics of Plant secondary metabolites

TECHNIQUES KNOWN:

- **Plant Tissue Culture:** Media Preparation, Micropropagation methods, Genetic transformation.
- **Biochemical, Molecular Biology & Enzymology** Extraction and evaluation of bioactive compounds through HPLC, DNA Extraction, Total RNA extraction, Gene Cloning, Plant transformation techniques, Extraction of Proteins and their Estimation, PAGE, SDS-PAGE.
- **Computer and Bioinformatics software:** BLAST Analysis, NTSys Software, SPSS, Powerpoint, Photoshop, etc.

RESEARCH PAPERS:

1. **Chetri, S.K.** Kapoor, H. and Agrawal, V. 2015. Marked enhancement of sennoside bioactive compounds through abiotic elicitors in *Cassia angustifolia* Vahl and cloning of isochorismate synthase gene involved in its biosynthesis. **Plant Cell Tissue and Organ Culture. 124: 431-446. Springer.**
2. Sharma, A; Sharma, S, Sharma K; **Chetri, S.P.K.**; Vashistha A; Singh, P; Kumar, R; Rathi, B & Agrawal, V. 2015. Algae as crucial organisms in advancing nanotechnology: a systematic review. **Journal of Applied Phycology. 28: 1759-1774. Springer.**
3. **Chetri S.K.**, Sardar, P.R. and Agrawal, V. 2014. Micropropagation and validation of genetic and biochemical fidelity amongst regenerants of *Cassia angustifolia* Vahl employing RAPD marker and HPLC. **Physiology and Molecular Biology of Plants. 20 :517 – 526. Springer.**
4. Parast, B.M., **Chetri S.K.** Sharma, K. & Agrawal V. 2011. *In vitro* isolation, elicitation of psoralen in callus cultures of *Psoralea corylifolia* and cloning of psoralen synthase gene. **Plant Physiology and Biochemistry 49: 1138-1146. Elsevier, United Kingdom.**
5. Razaq, M.; Heikrujam, M. **Chetri, S.K. and** Agrawal V. 2013. *In vitro* clonal propagation and genetic fidelity of the regenerants of *Spilanthes calva* DC. using RAPD and ISSR marker. **Physiology and Molecular Biology of Plants 19:251-260. Springer.**
6. Chaubey P.; Singh, N.P, **Chetri, S.K.**; Heikrujam, M. 2013. Effective micropropagation protocol in *Jatropha curcas* L. and assessment of genetic fidelity among the regenerants. **Phytomorphology 63: 33-44.**
7. **Chetri S K**, Sharma K, Subhan S, Agrawal V (2014) Efficient protocol for micropropagation of high psoralen yielding chemotype of *Cullen corylifolium* (L.) medik.- a traditional herb of immense medicinal value. **Int. J. Pharma Bio. Sci. 5:567-579**
8. **Chetri, S.K.** Sharma, K. & Agrawal V. 2013. Genetic diversity analysis and screening of high psoralen yielding chemotype of *Psoralea corylifolia* from different regions of India employing HPLC and RAPD marker. **Vegetos 26: 88-95.**
9. Sharma, K.; **Chetri S.K.**, Heikrujam, M. and Agrawal, V. 2015. **Plant Tissue Culture: Historical Perspectives. Lesson Developed Under NME-ICT, Discipline – Botany, University of Delhi. Virtual Learning Environment. Institute of Lifelong Learning. Univ. of Delhi. ISSN 2349-154X.**
10. Vashishtha, A; Barupal, T; **Chetri, S.P.K.**; Kumar, G.; Chittora, D; Meena, M.; Jain, T and Sharma, K. 2020. Tapetum. In J. Vonk, T. K. Shackelford (eds.), Encyclopedia of Animal Cognition and Behavior, https://doi.org/10.1007/978-3-319-47829-6_616-1. Springer Nature Switzerland.
11. Kumar, G; Vashishtha, A; Barupal, T; **Chetri, S.P.K.**, Heikrujam, M.; Meena, M, Jain, T and Sharma, K. 2020. Herbivore. J. Vonk, T. K. Shackelford (eds.), Encyclopedia of Animal Cognition and Behavior, https://doi.org/10.1007/978-3-319-47829-6_854-1. Springer Nature Switzerland.

12. Heikrujam, M.; Vashishtha, A, Barupal, T; Kumar, G; **Chetri, S.P.K.**, Meena, M, Jain, T and Sharma, K. 2020. Photoperiod. In J. Vonk, T. K. Shackelford (eds.), Encyclopedia of Animal Cognition and Behavior, https://doi.org/10.1007/978-3-319-47829-6_374-1. Springer Nature Switzerland.

Book Chapter:

1. Agrawal, V., **Chetri, S.P.K.** and Parast B.M. 2013. ***In vitro* evaluation of psoralen through nodal cultures of *Psoralea corylifolia* exposed to elicitors.** Proceedings of the 2nd Int. Symp. Med. Nutraceutical Pl. held at AIIMS (All India Institute of Medical Sciences), New Delhi w.e.f. 25-27 Nov. 2009. **Acta Hortic. pp. 9-20, ISHS, Belgium.**
2. Rahang J and **Chetri, SPK.** 2021. Community-based entrepreneurship in Assam: the progress so far, the obstacles and ways to tackle it. In Saha, A; Acharjee G; Hazari, S; Nag D and Singh N (Eds) Entrepreneurial challenges during Covid-19: Recent trends and innovations, Global Vision Publishing House, Delhi, India pp. 83-101 (ISBN: 978-93-90423-42-2).

LIFE MEMBER:

International Society of Plant Morphologists, Delhi
Assam Science Society, Guwahati

MEMBER:

Internal Quality Assurance Cell (IQAC) of Dimoria College, Khetri, Kamrup (Metro) w.e.f. May 2019

COORDINATOR OF ECO CLUB:

Eco-Club of Dimoria College, Khetri, Kamrup (Metro), Assam of National Green Corps Programme under Assam Science Technology and Environment Council, Assam

AS REVIEWER OF INTERNATIONAL JOURNALS:

Environmental Monitoring and Assessment, Springer
Journal of Basic Microbiology, Wiley

ORIENTATION/REFRESHER COURSES ATTENDED:

- Attended the **43rd Orientation Programme** held w.e.f. **19/2/2018 to 18/3/2018** at UGC-HRDC, NEHU, Shillong (Meghalaya).
- Attended the **Refresher course on Machine Learning (Inter-disciplinary Course)** held w.e.f. **29/1/2020 to 11/2/2020** at UGC-HRDC, Gauhati University, Guwahati (Assam).

CONFERENCES, SEMINARS AND WORKSHOPS ATTENDED:

International: 4

National: 9

ORAL / PAPER PRESENTATION IN CONFERENCES/ SYMPOSIUMS :

Oral presentations:

International: 3

National: 8

➤ **Invited Lectures:**

- Delivered invited lecture on “**Plant bioactive compounds: their extraction process & approaches towards their greater productivity**” in the Annual Seminar organized by Department of Botany, Arya Vidyapeeth College, Guwahati, Assam on 14th September, 2016.
- Delivered invited lecture on “**Plant Tissue Culture Process & its Applications**” in the Workshop Organized by Daffodil Nursery, Khetri on 6th September, 2016.
- Delivered lecture on “**Clean Earth.....Green Earth**” held on World Environmental Day, June 5, 2017 at Dimoria College, Khetri, Kamrup (M), Assam.
- **As In-Charge of B.A., B.Sc Semester Examinations:**
Asstt.-in-Charge of Semester Examinations of B.A and B.Sc (1st, 3rd and 5th) under Gauhati University w.e.f. Nov 2018 to Feb. 2019 at Dimoria College, Khetri.
- **As Special Observer of Examinations:**
For practical examinations of National Institute of Open Schooling (NIOS) of MHRD, Govt. of India, w.e.f. Sept-Oct 2015.
- **As Subject Expert:**
 - Conducted training session as Subject Expert to M.Sc. students on “**Some techniques of Microbiology & Molecular Biology**” Sponsored by DBT, held at Dimoria College, Khetri Kamrup (M) on 25th & 27th March, 2017.
 - Conducted training session as Subject Expert to B.Sc. Botany (Major) 6th Sem students on “**Basics of Bioinformatics for College students**” Sponsored by DBT, held at Dimoria College, Khetri, Kamrup (M) on 1st March, 2017.
- **As Examiner of Theory & Practical Examinations:**
Internal Examiner of B.Sc Botany (Major) (2nd, 3rd, 5th & 6th Semester Practical Examinations); Examiner of B.Sc Botany (General) (2nd & 4th Semester Theory Examinations); HS 2nd year Theory & Practical Examination (Jagiroad College)
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