

S. ANTONY CEASAR, Ph.D., Marire Curie Fellow (UK), Belspo Fellow (Belgi.)

Listed as World's Top 2% Cited Scientist by Stanford University

Professor (Research)

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PUBLIC DATABASE IDS /LINKS

DATABASE	ID & LINK	CITATIONS*	H-INDEX*
ORCID	: 0000-0003-4106-1531		
Researchgate	: RG-Antony-Ceasar	5564	41
Scopus ID	: 24823721900	4601	37
WoS Researcher ID	: P-2479-2017	3465	33
Google Scholar	: S-AntonyCeasar-Scholar	6445	45
Institutional profile	: Rajagiri-Antony-Ceasar		

*As on Dec. 2025

EDUCATIONAL QUALIFICATIONS

Ph.D.: Specialization in Plant Biotechnology, University of Madras, India, 2007-2011.

Thesis title: “Genetic engineering of finger millet (*Eleusine coracana* (L.) Gaertn.) for fungal resistance”.

Qualification: Highly Commended

M. Phil.: Specialization in Biotechnology, Bharathidasan University, Trichy, India, 2003-2004.

Thesis title: “Study of inhibitory effect of cowpea proteinase inhibitors against gut proteinase enzyme and larval growth of *Nepllopteryx eugraphella* Rag. (Phycitidae: Lepidoptera)”.

Qualification:I class

M.Sc.: Specialization in Biochemistry, Bharathidasan University, Trichy, India, 1997-1999.

Thesis title: “Study of inhibitory effect of three plant extracts against dental caries causing microbes”.

Qualification:I class

B.Sc.: Specialization in Botany, Bharathidasan University, Trichy, India, 1994-1997.

Qualification:I class

Additional Qualification: PGDCA: Post Graduate Diploma in Computer Applications, Madurai Kamaraj University, Madurai, India; Year of passing: 2000.

HONORS AND AWARDS

- **Marie Curie International Incoming Fellow (MC-IIF)**, European Union (2012-2015)
- **World University Network-Research Mobility Program (WUN-RMP) Award**, University of Alberta, Canada (April-May 2014)
- **Marie Curie Fellow-Visiting Title**, University of Leeds, UK (2014-2017)
- **International Travel Grant**, Biochemical Society, London, UK (2015)
- **DBT-CTEP International Travel Grant**, DBT, Govt. of India (2015)
- **Academic Visitor**, University of Leeds, UK, (February 2017-June 2017)
- **BELSPO Non-European Postdoctoral Fellow**, Federal Science Policy Office (BELSPO), Belgium (2017-2019)
- **Best Researcher Award-2018, Loyola College, Chennai, India** for winning Prestigious International Fellowships (2018)
- **Listed among the top 2% cited scientists by the Stanford University, USA (since 2022)**
- **Springer Nature, Editor of Distinction Awards 2025**, Editorial Contribution Award & Author Service Award.

ACADEMIC AND ADMINISTRATIVE ROLES

1. **Director-Rajagiri R&D Cell**, Rajagiri College of Social Sciences, Kochi, Kerala. (2022 to 2026)
2. **Chairman- Institutional Biosafety Committee (IBSC)-Rajagiri College of Social Sciences**-Approved by the Department of Biotechnology, Ministry of Science and Technology, GOI (From 2022 to 2026)
3. Organized an **International Conference on Millets: Breeding, Physiology, Genomics, Biotechnology, and Nutraceuticals-2023 (ICM-BPGBN-2023) from July 5 to 7, 2023** at Rajagiri College of Social Sciences, Kochi, Kerala, India.
4. **Member, Institutional Ethics Committee, Rajagiri College of Social Sciences** (2022 to 2026)
5. **Head- Department of Biosciences (research-only department)**, Rajagiri College (2021 to 2026)
6. **Editorial Board Member**, Discover Agriculture - Springer Nature (2024 onward)
7. **Guest Editor - BMC Biology**, Genome Editing (2025-2026)
8. **Guest Editor - JOVE (Video Methods Journal) Methods for Genetic Transformation and Genome Editing in Plants** (2025)
9. **Guest Editor- BMC Methods**, Plant Genome Editing Special Collection, (2024)
10. **Editor, BMC Methods** (2024 onward)
11. **Guest Editor- Planta**, Millet Special Collection, (2023)

12. **Editorial Board Member**, MDPI- Agriculture (2022 onward)
13. **Editorial Board Member**, BMC Genomics (2021 onward)
14. **Editor**, Open Biotechnology Journal (2018-2025)
15. **Reviewer –Major Projects from DST-SERB**, Ministry of Science and Technology, GOI.
16. **Reviewer-Major Projects from National Science Centre**, Poland
17. **Reviewer-Major Projects from Higher Education and Science Committee**, Republic of Armenia
18. **Ad hoc reviewer for Elsevier & Springer Book Proposals.**

19. **JOURNAL REVIEWER RECOGNITIONS**

Ad hoc reviewer for reputed Journals in Plant Biotechnology field (Nature Reviews Bioengineering,, New Phytologist, Plant Biotechnology Journal, Trends in Genetics, Trends in Analytical Chemistry, Plant Cell & Environment, Biotechnology Advances, Journal of Biotechnology, Critical Reviews in Biotechnology, Planta, BMC Plant Biology, J. Agri Food, Chem, Genomics, Communications Biology, BMC Genomics, Frontiers in Plant Science, The Plant Genome, Plant Signaling & Behavior, Plant Science, Functional & Integrative Genomics, Plant Physiology and Biochemistry, Plos ONE, Crop Science, Crop Journal, Int. J. Molecular Sciences, Scientific Reports, Science of the Total Environment, etc).

ORCID confirmed reviews = 223; WoS confirmed reviews = 137; [As on Sept. 2025]

20. **Ph.D External Examiner & Thesis Evaluator**-Bharathiar University, Coimbatore, Sathyabama Deemed to be University, Chennai.
21. **Member, Board of studies in Biochemistry.** Manonmaniam Sundaranar University, Thirunelveli, India. 2003-2004
22. **Member, Board of studies in Biotechnology**, St Peter’s University, Chennai, India. 2008-2012
23. **ISO Internal Auditor**, St. Peter’s Engineering College, Avadi, Chennai, India. 2008-2010
24. **Acted as examiner in Central Valuation**, practical exams and project work for Biochemistry Board, Manonmaniam Sundaranar University, Thirunelveli, India. (2000-2004)
25. **Examiner in Central Valuation**, Practical Exams and Project Work for Biotechnology, Anna University Chennai, India. (2004-2010)

PROFESSIONAL HISTORY: (A) Research

- **Professor (Research)**, Department of Biotechnology, Karunya Institute of Technology and Sciences, Coimbatore – 641114, Tamil Nadu, India, **May 2026- Till date**
- **Senior Scientist & Head:** Department of Biosciences, Rajagiri College of Social Sciences, Kochi, Kerala, India, **January 2021- April 2026**
- **Scientist:** Division of Plant Biotechnology, Entomology Research Institute, Loyola College, Chennai, India, **June 2014- January 2021**

- **BELSP0 Postdoc Fellow:** Centre for Protein Engineering and Botanical Institute, University of Liege, Liege, B4000, Belgium. **August 2017- February 2019 (On Sabbatical)**
- **Academic Visiting Fellow:** Centre for Plant Sciences and School of Molecular and Cellular Biology, Faculty of Biological Sciences, University of Leeds, Leeds, LS2 9JT UK, **February 2017-June 2017** (Funded by N8 Agri-Food pump priming funds, UK) **(On Sabbatical)**
- **World University Network-Research Mobility Program (WUN-RMP) Awardee,** Department of Physiology, University of Alberta, Canada. **April-May 2014**
- **Marie Curie International Incoming Fellow:** Centre for Plant Sciences and School of Molecular and Cellular Biology & Astbury Centre for Structural Molecular Biology, Faculty of Biological Sciences, University of Leeds, Leeds, LS2 9JT UK, **May 2012-May 2014**

RESEARCH GUIDANCE

Postdoc Scholars	: 04
Ph.D students	: Completed 03; ongoing 01
M. Phil. Project Guided:	: 02
Master's Projects Guided:	: 05
Under Graduate Projects Guided:	: 10

PROFESSIONAL HISTORY: (B) Teaching

- Lecturer in Biochemistry, K.R.College of Arts & Science, Kovilpatti, Tamil Nadu, India. **July 2000-September 2004**
- Assistant Professor in Biotechnology, St. Peter's Engineering College (Now St. Peter's University), Chennai, India. **September 2004-April 2012**

Courses Handled

- **Theory:** Genetic Engineering, Biochemistry, Plant Biotechnology, Protein Chemistry, Cell & Molecular Biology
- **Laboratory:** Genetic engineering, Molecular biology, Plant Biotechnology

RESEARCH INTERESTS

Millet Science

Millet Biotechnology & Molecular Biology

Plant Molecular Biology

Plant Phosphate Transport

Plant Nutrition Signaling

Plant-AM Interactions

Gene Expression Studies

Gene Cloning

Plant Transformation

RNA Interference

CRISPR/Cas9; etc.

RESEARCH FUNDS SECURED

Funding agency	Title	Role	Amount	Duration
DBT, Govt. of India, India	Identification of genetic markers related to fungal resistance in finger millet (<i>Eleusine coracana</i> (L.) Gaerth.) using molecular marker techniques	Co-PI	Rs 21 Lakhs	2011-2014
European Union	Improved Millets for Phosphate Acquisition and Transport (IMPACT)	Individual Fellowship	Euro 200,371	2012-2014
World Universities Network, University of Leeds, UK	Characterization of foxtail millet phosphate transporters using <i>Xenopus</i> oocytes	Visiting Researcher	GBP 3,500	2014
European Union	Improved Millets for Phosphate Acquisition and Transport (IMPACT)	Individual Fellowship	Euro 15,000	2014-2015
DBT, Govt. of India, India	Structure and function of PHosphate Transporter1 (PHT1) proteins in foxtail millet (<i>Setaria italica</i>), University of Leeds, UK	International Travel Grant	Rs, 1.20 Lakhs	December 2015
Times of India-Loyola College grant	Identification of quantitative trait loci (QTL) associated with zinc efficiency in finger millet	Co-PI	Rs 39.90 Lakhs	2014-2017
DBT, Govt. of India, India	Reducing the phytic acid content in the seeds of foxtail millet through CRISPR/Cas9 system-mediated genome editing	PI	Rs 43.924 Lakhs	2019-2022
BBSRC-International Collaboration Fund-UK	Generation of P-responsive gene expression data set in the development of foxtail millet	Indian Collaborator	GBP 2000	2022-2023
DST-SERB	International Conference on Millets	PI	Rs 2.5 lakhs	2023-2024
DSIR, Govt. of India, India	Socio-economic empowerment of women micro-entrepreneurs with a special focus on mushroom	PI	Rs 21 lakhs	2023-2025

Funding agency	Title	Role	Amount	Duration
	cultivation: a sustainable livelihood option			

PUBLICATIONS

BOOKS AUTHORED/ EDITED

1. **Cesar, S.A.**, Penna, S., Carvalho, C.W.P., Jain, S.M. (Eds). (2025). Millets: Crops for Climate Resilience and for Food and Nutritional Security (1st ed.), Springer Singapore., Hardcover ISBN: 978-981-95-1255-3., Softcover ISBN: 978-981-95-1258-4., eBook ISBN: 978-981-95-1256-0. <https://doi.org/10.1007/978-981-95-1256-0>

BOOK CHAPTERS

1. Maharajan, T., Ajeesh Krishna, T.P., **Cesar, S.A.** (2026). CRISPR/Cas Gene Editing and Improvement of Abiotic Stress Tolerance in Cereals. In: Abd-Elsalam, K.A., Ahmad, A. (eds) Gene Editing in Cereals: : Approaches and Applications. Sustainability Sciences in Asia and Africa. Springer, Singapore. https://doi.org/10.1007/978-981-95-6722-5_6
2. Maharajan, T., Krishna, T.P.A., **Cesar, S.A.** (2025). Finger Millet. In: Cesar, S.A., Penna, S., Carvalho, C.W.P., Jain, S.M. (eds) Millets: Crops for Climate Resilience and for Food and Nutritional Security. Springer, Singapore. https://doi.org/10.1007/978-981-95-1256-0_1
3. Nandini, C., Mani, v., Joshi, D.C., Maharajan, T., Nandini, B., Bhat, S., Meenakshi, J., Parveen, S.G., Nagaraja, T.E., Divya, M., Cesar S.A. et al. (2025). Little Millet. In: Cesar, S.A., Penna, S., Carvalho, C.W.P., Jain, S.M. (eds) Millets: Crops for Climate Resilience and for Food and Nutritional Security. Springer, Singapore. https://doi.org/10.1007/978-981-95-1256-0_5
4. James, M., Krishna, T.P.A., Cesar, S.A., Johnson, K.V.H., Amrutha, E.A., Kadiyala, K., Priyadarsini, V., Chapara, R., Narasupalli, A., Patro T. S. K. K., Pudake, R. (2025). Proso Millet. In: Cesar, S.A., Penna, S., Carvalho, C.W.P., Jain, S.M. (eds) Millets: Crops for Climate Resilience and for Food and Nutritional Security. Springer, Singapore. https://doi.org/10.1007/978-981-95-1256-0_6
5. Krishna, T.P.A., Maharajan, T., Cesar, S.A., Johnson, K.V.H., James, M., Carvalho, C.W.P., Martino, H.S.D., (2025). Pearl Millet. In: Cesar, S.A., Penna, S., Carvalho, C.W.P., Jain, S.M. (eds) Millets: Crops for Climate Resilience and for Food and Nutritional Security. Springer, Singapore. https://doi.org/10.1007/978-981-95-1256-0_8
6. Nandini, C., Joshi, D.C., Maharajan, T., Nandini, B., Mani, V., Parveen, S.G., Nagaraja, T.E., Bhat, S., Bhavani, P., Divya, M., Cesar S.A., (2025). Browntop Millet. In: Cesar, S.A., Penna, S., Carvalho, C.W.P., Jain, S.M. (eds) Millets: Crops for Climate Resilience and for Food and Nutritional Security. Springer, Singapore. https://doi.org/10.1007/978-981-95-1256-0_7

7. Krishna, T.P.A., Maharajan, T., **Cesar, S.A.** (2025). Advances in Genetic Transformation Studies of Small Millets. In: Joshi, D.C., Singh, A.K., Sood, S., Prasad, M. (eds) Minor Millets. Springer, Singapore. https://doi.org/10.1007/978-981-96-4265-6_15 **(SCOPUS Indexed)**
8. Krishna, T.P.A., Maharajan, T., Hillary, V.E., **Cesar, S.A.** (2025). Future of World Health by Bioremediation. In: Abdel Latef, A.A.H., Zayed, E.M., Omar, A.A. (eds) Bioremediation and Nanotechnology for Climate Change Mitigation. Springer, Singapore. https://doi.org/10.1007/978-981-96-3069-1_18 **(SCOPUS Indexed)**
9. Hillary, E.V., Krishna, A.T.P., Maharajan, T., **Cesar, S.A.** (2025). The Comparison of Bioremediation and Nanoremediation and Their History Background. In: Abdel Latef, A.A.H., Zayed, E.M., Omar, A.A. (eds) Sustainable Remediation for Pollution and Climate Resilience. Springer, Singapore. https://doi.org/10.1007/978-981-96-5674-5_1 **(SCOPUS Indexed)**
10. Awio B, Sargar P, Aghuru A, Chavan S, Kasanaboina K, Reddy VK, Thakur N, **Cesar SA**, Habyarimana E (2024) Breeding Advancements of Sorghum in Europe. In: Habyarimana, E., Nadeem, M.A., Baloch, F.S., Zencirci, N. (eds) Omics and Biotechnological Approaches for Product Profile-Driven Sorghum Improvement. Springer, Singapore. https://doi.org/10.1007/978-981-97-4347-6_11 **(SCOPUS Indexed)**
11. Joseph B, Krishnakumar NM, **Cesar SA**, Devassy SM (2024). Role of Rural Women in Achieving United Nations Sustainable Development Goals Through Mushroom Agri-Entrepreneurship: Mushroom Cultivation as a Sustainable Livelihood Option for Rural Women. In M. Justin & J. Thorat (Eds.), The Role of Female Leaders in Achieving the Sustainable Development Goals (pp. 214-231). IGI Global. <https://doi.org/10.4018/979-8-3693-1834-8.ch013>. **(SCOPUS Indexed)**
12. Hillary VE, **Cesar SA** (2024) Using CRISPR-Cas9 to create knockout mutants in insects. *CABI Reviews-A peer-reviewed reviews journal*. <https://doi.org/10.1079/cabireviews.2024.002>. **(SCOPUS Indexed)**
13. **Cesar SA**, Babu BK (2023). Genetic and Genomic resources for Harnessing the Health-Related Genes in Finger Millet. In: Chittaranjan Kole (Eds): Compendium of Crop Genome Designing for Nutraceuticals. **Springer, Singapore**. https://doi.org/10.1007/978-981-19-3627-2_9-1. **(SCOPUS Indexed)**
14. **Cesar SA**, Maharajan T, Krishna ATP, Ignacimuthu S, (2023). **Finger millet (*Eleusine coracana* (L.) Gaertn)**. In: Muhammad Farooq & Kadambot Siddique (eds) Neglected and Underutilized Crops: Future Smart Food, Copyright: Academic Press 2022, Published: November 29, 2022. eBook ISBN: 9780323906401; Paperback ISBN: 9780323905374. **(SCOPUS Indexed)**.
15. Maharajan T, Krishna ATP, **Cesar SA**, (2023) Nutrigenomics Studies in Millets In: Pudake, RN, Solanke, AU, Kole, Chittaranjan (eds) Nutriomics of Millet Crops: Pages 261-278. Source type Book. ISBN 978-100092429-9, 978-103223094-8. DOI 10.1201/b22809. Publisher CRC Press. **(SCOPUS Indexed)**.

16. Ingle, Krishnananda, Thakur, Niranjana, Moharil M.P., Suprasanna P., Awio, Bruno, Narkhede, Gopal, Kumar, Pradeep, Ceasar, SA (2023). Current Status and Future Prospects of Molecular Marker Assisted Selection (MAS) in Millets. In: Pudake, RN, Solanke, AU, Kole, Chittaranjan (eds) Nutriomics of Millet Crops: Pages 215-235. Source type Book. ISBN 978-100092429-9, 978-103223094-8. DOI 10.1201/b22809. Publisher CRC Press. **(SCOPUS Indexed)**.
17. Krishnakumar NM, Ramesh BT, **Ceasar SA** (2023) Medicinal mushrooms as potential sources of anticancer polysaccharides and polysaccharide–protein complexes. In. Atta-ur-Rahman (Ed). Studies in Natural Products Chemistry. Volume 76, 2023, pp 113-148. Elsevier Ltd, AE Amsterdam, Netherlands. **(SCOPUS Indexed)**.
18. Ramakrishnan M, Maharajan T, Ahmad Z, **Ceasar SA**, Wei Q (2023). **Genome Editing and Future Scope in Bamboos**. In: Malay Das, Liuyin Ma, Amita Pal, Chittaranjan Kole (eds) Genetics, Genomics, and Breeding of Bamboos, 1st Edition. Copyright: CRC Press 2023. eBook ISBN9781003287605. <https://doi.org/10.1201/9781003287605>
19. Krishna ATP, Maharajan T, Ignacimuthu S, Ceasar SA (2022). **Functional, Structural, and Transport Aspects of ZIP in Plants**. In: Kumar, K., Srivastava, S. (eds) Plant Metal and Metalloid Transporters. **Springer, Singapore**. ISBN: 978-981-19-6103-8. https://doi.org/10.1007/978-981-19-6103-8_10
20. Maharajan, T., **Ceasar, S.A.**, Krishna, T.P.A., Ignacimuthu, S. (2022). **Mining Genes and Markers Across Minor Millets Using Comparative Genomics Approaches**. In: Pudake, R.N., Solanke, A.U., Sevanthi, A.M., Rajendrakumar, P. (eds) Omics of Climate Resilient Small Millets. **Springer, Singapore**. ISBN 978-981-19-3907-5. https://doi.org/10.1007/978-981-19-3907-5_9
21. Krishna, T.P.A., Maharajan, T., Ignacimuthu, S., **Ceasar, S.A.** (2022). **Improving the Nutrient-Use Efficiency in Millets by Genomics Approaches**. In: Pudake, R.N., Solanke, A.U., Sevanthi, A.M., Rajendrakumar, P. (eds) Omics of Climate Resilient Small Millets. **Springer, Singapore**. ISBN 978-981-19-3907-5. https://doi.org/10.1007/978-981-19-3907-5_10
22. Maharajan, T., Ajeesh Krishna, T.P., Ignacimuthu, S., **Ceasar, S.A.** (2022). **Finger Millet Genome Analysis and Nutrient Transport**. In: Kumar, A., Sood, S., Babu, B.K., Gupta, S.M., Rao, B.D. (eds) The Finger Millet Genome. Compendium of Plant Genomes. **Springer, Cham**. ISBN 978-3-031-00868-9. https://doi.org/10.1007/978-3-031-00868-9_11
23. Krishna TPA, Maharajan T, Ignacimuthu S, **Ceasar SA** (2021). **Genomic-Assisted Breeding in Finger Millet (*Eleusine coracana* (L.) Gaertn.) for Abiotic Stress Tolerance**. Chittaranjan Kole (eds). "Genomic designing for biotic/abiotic stress resistant/tolerant crops". **Springer-Verlag Berlin Heidelberg, Germany**. ISBN: 978-3-030-75874-5. DOI: 10.1007/978-3-030-75875-2_8. https://doi.org/10.1007/978-3-030-75875-2_8
24. T. Maharajan, Roch GV, **Ceasar SA** (2021) **Recent advancements of molecular breeding and functional genomics for improving nitrogen-, phosphorus- and potassium-use efficiencies in wheat**. Robert Henry, Mobashwer Alam, Saman Seneweera, Sujay Rakshit

- (eds). "Molecular breeding in wheat, maize and sorghum: strategies for improving abiotic stress tolerance and yield." **CABI publisher, UK**. ISBN: 9781789245431. DOI: 10.1079/9781789245431.0009. <https://www.cabi.org/cabebooks/ebook/20210258180>
25. Hillary VE, **Cesar SA** (2021) **Genome engineering in insects for the control of vector borne diseases**, "Progress in Molecular Biology and Translational Science" Vijai Singh (ed). **Elsevier publishers Ltd., USA**. ISBN: 1877-1173. DOI: 10.1016/bs.pmbts.2020.12.017. <https://doi.org/10.1016/bs.pmbts.2020.12.017>. (SCOPUS Indexed). **IF: 4.025**.
 26. **Cesar SA**, (2020) **Regulation of low phosphate stress in plants**, "Plant Life under Changing Environment: Responses and Management" Durgesh Kumar Tripathi and Devendra Chauhan (ed). **Elsevier publishers Ltd., USA**. ISBN: 9780128182048. <https://doi.org/10.1016/B978-0-12-818204-8.00007-2>. (SCOPUS Indexed)
 27. Hillary VE, **Cesar SA**, Ignacimuthu, S (2020) **Genome engineering in insects: focus on the CRISPR/Cas9 system** "Genome Engineering via CRISPR-Cas9 Systems" Singh & Dhar (ed). **Elsevier publishers Ltd., USA**. ISBN: 9780128181409. <https://doi.org/10.1016/B978-0-12-818140-9.00018-0>. (SCOPUS Indexed)
 28. Satish L, Naresh JV, **Cesar SA**, Ariel K, Sitrit, Y (2020) **CRISPR-Cas9 system for fungi genome engineering towards industrial applications** "Genome Engineering via CRISPR-Cas9 Systems" Singh & Dhar (ed). **Elsevier publishers Ltd., USA**. ISBN: 9780128181409. <https://doi.org/10.1016/B978-0-12-818140-9.00006-4>
 29. **Cesar SA**, Ignacimuthu S (2014) *Agrobacterium* protocols: Finger millet, **Methods in Molecular Biology**. Wang K (ed); **Humana Press, New York, USA**, Vol. 1223: 135-142. ISSN: 1064-3745. https://doi.org/10.1007/978-1-4939-1695-5_10. (SCOPUS Indexed).

CONTRIBUTION IN GENERAL BOOKS/ ARTICLES

- Maharajan T, Krishna ATP, **Cesar SA** (2023) Current status and future prospects of millet research. The miracle superfood for healthy people in a healthy environment. Joseph M.K and Abbas MM (eds). **Rajagiri College of Social Sciences and Organic Kerala Charitable Trust in Collaboration with Ryans Publishers, Trichy**. ISBN: 9788179587407. First edition: November 2023.
- Kole C., Acharya S., Ghosh A., Bhattacharjee S., Ghosh S., **Cesar S.A.**, (2025) Farmers' Academy: A Novel Farmers-Driven Strategy for Agricultural Education, Research and Extension. *Journal of Agricultural Science*. Vol. 17, No. 7. (Canada)

RESEARCH PUBLICATIONS IN PEER-REVIEWED JOURNALS

- 1) **Cesar SA***, Pandey H, Misra V, Sharma A, Kumar R, Mall AK, (2026). Biotechnological improvement of fiber crops: role of in vitro culture, genetic transformation, and genome editing. *Journal of Agricultural and Food Chemistry*.

- <https://pubs.acs.org/doi/10.1021/acs.jafc.5c14248>. **IF: 6.2 (USA)**. (*Corresponding author).
- 2) Rakkammal K, Muthuramalingam P, Pandian S, Rahman MA, Rahman MM, Islam SMS, Theivanayagam M, Omondi C, **Ceasar SA**, Shin H, Ramesh M, (2026). Integrative insights into abiotic stress tolerance in finger millet (*Eleusine coracana* (L.) Gaertn.): linking physiological, biochemical, and molecular perspectives for developing climate-smart cereals. *Frontiers in Plant Science*. (In press). **IF: 4.8 (Switzerland)**.
 - 3) Neenu G, **Ceasar SA***, Krishnakumar NM, (2026). Harnessing mushrooms as bioindicators to monitor heavy metal pollution. *Environmental Quality Management*, 35(4), e70348. <https://doi.org/10.1002/tqem.70348>. **IF: 1.9 (USA)**. (*Corresponding author).
 - 4) Thakur NR, Ingle KP, Chavan S, Jadhav Y, Baraskar SS, Nikalje G, Pandey S, Papade JN, Dhare SL, **Ceasar SA***, Abdi, G., (2026). CRISPR/Cas system-mediated gene editing for disease resistance in food crops: current status and future directions. *Plant Stress*, p.101322. <https://doi.org/10.1016/j.stress.2026.101322>. **IF: 6.9 (Netherlands)**. (*Corresponding author).
 - 5) Kole C, Kole P, Pandey S, **Ceasar SA**, Ortiz R, (2026). Food, Health, Nutrition, Energy and Environment (FHNEE) Security Nexus: Future Mission for Sustainable Agriculture. *Food and Energy Security*. 15, no. 2: e70217. <https://doi.org/10.1002/fes3.70217>. **IF: 4.5 (UK)**.
 - 6) Pandey H, Sharma A, Misra V, Mall AK, **Ceasar SA*** (2026). Pre-validation strategies for CRISPR/Cas-based genome editing in plants: a critical analysis of in vitro RNP cleavage assays. *Physiology and Molecular Biology of Plants*, 1-15. <https://doi.org/10.1007/s12298-026-01706-6>. **IF: 3.3 (India)**. (*Corresponding author).
 - 7) Krishna TA, Veena M, Maharajan T, Puthur JT, **Ceasar SA*** (2026). Improving the Aroma of Millets by Targeting the Betaine Aldehyde Dehydrogenase 2 Gene: A Promising Approach for Popularising Millet Foods Worldwide. *Current Genomics*. <https://doi.org/10.2174/0113892029353221251120094444>. **IF: 1.4 (UAE)**. (*Corresponding author).
 - 8) Khatod JP, Gahukar SJ, Kadirvel P, Dhole VJ, Akhare AA, Yadav P, Jadhav PV, Sargar PR, Ingle KP, Thakur NR, & **Ceasar SA*** (2026). Induced Mutagenesis in Safflower (*Carthamus tinctorius* L.) Uncovers High-Oleic Acid Mutants Genetically Distinct from the Canonical CtFAD2-1 Allele. *Agriculture*, 16(4), 431. <https://doi.org/10.3390/agriculture16040431>. **IF: 3.6 (Swiss)**. (*Corresponding author)
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- 153) **Cesar SA**, Natesan R (2006) Study of inhibitory effect of cowpea proteinase inhibitors against gut proteinase enzyme and larval growth of *Neplopteryx eugraphella* Rag. (Phycitidae: Lepidoptera). **Pest Management in Horticultural Ecosystems**. Vol 12, Issue:1, pp 17-22. **IF: NA**.

INVITED/ KEYNOTE TALKS/ GUEST LECTURES DELIVERED

1. **Harnessing the transporters of mineral nutrients and metals to study and enrich the nutritional status in millets.** International Conference on Millet as Future Food for Sustainable Planet. Department of Biodiversity & Conservation of Natural Resources (DBCNR), Central University of Odisha (CUO), Koraput, Odisha, India January 10 to 12, 2025
2. **Harnessing genetic engineering and genome editing tools for millet improvement.** ICRISAT's Institutional Learning Seminar. The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India. 6th June, 2024.
3. **Genetic engineering and genome editing in minor millets.** International Conference on Reviving Ancient Grains: Millets on the Global stage. Organized by ICAR-Krishi Vigyan Kendra, Tamaka, Kolar, Karnataka, India. 8-9, February 2024.
4. **Biotechnological interventions for millet improvement.** National Conference on Millets. Millet Magic-2023. Sowing sustainable futures. Organized by Department of Biotechnology, SAFI Institute of Advanced Study, Malappuram, Kerala. 17th and 18th October, 2023.
5. **Millets & SDGs.** National Seminar on Resurgence of Millets as Super Crops: Prospects and Challenges, Organized by SIES College of Arts, Science, and Commerce Sion (W), Mumbai. India. 15th and 16th September, 2023
6. **Applications of biotechnology in genetic improvement of millets.** High-End workshop on advanced techniques in augmenting millets for nutritional security and climate resilient agriculture (July 18-28, 2023), Organized by crop improvement division ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan Almora, Uttarakhand-263601. 25th July, 2023.
7. **CRISPR/Cas system: past, present and future.** Department of Biotechnology, Alpha Arts and Science College, Chennai-116. 12th December, 2022.
8. **Genome Editing in millets.** Webinar Series on Emerging Topics in Plant Biology. Organized by the Department of Plant Science, Central University of Kerala, Kasaragod, Kerala, India. 20th August 2021.
9. **CRISPR/Cas9: A genome editing tool with COVID19 diagnosis Option.** A national webinar to Faculty and Students of Biochemistry and Microbiology departments of K.R.College of Arts and Science, Kovilpatti, Tamil Nadu, India. 24th June 2020.
10. **Combating COVID19 with CRISPR/Cas9 genome editing system.** A Webinar to Faculty and Students of Biotechnology and Food Science, Loyola College, Chennai. 4th June 2020.
11. **CRISPR/Cas9: A game-changing genome editing tool.** Rev. Fr. Alfred Rapinat Endowment Lecture, Department of Plant Biology and Biotechnology, Loyola College, Chennai-34, India. 12th March 2020.
12. **Foxtail millet as a model system to understand the phosphate acquisition and use-efficiency in millets;** Cluster of Excellence in Plant Science (CEPLAS), University of Cologne, Cologne, Germany. 28th August 2018.
13. **Improving the phosphate use efficiency of crop plants;** Department of Biotechnology, Alagappa University, Karaikudi. 7th October 2014
14. **Gene transfer in plants;** Department of Biotechnology, Acharya Arts and Science College, Pondicherry. 23rd February 2012.

15. **Transgenic Plants**; Malankara Catholic College, Kalyakavilai, Kanyakumari Dist. 2nd August 2003

PAPER/POSTER IN SEMINARS, SYMPOSIUMS AND CONFERENCE PROCEEDINGS

INTERNATIONAL

1. Ceasar (2025). Harnessing the transporters of mineral nutrients and metals to study and enrich the nutritional status in millets. International Conference on Millet as Future Food for Sustainable Planet. **Department of Biodiversity & Conservation of Natural Resources (DBCNR), Central University of Odisha (CUO), Koraput, Odisha, India January 10 to 12, 2025**
2. Ceasar SA, Krishna TPA (2024). Genetic engineering and genome editing in minor millets. International Conference on Reviving Ancient Grains: Millets on the Global stage. **Organized by ICAR-Krishi Vigyan Kendra, Tamaka, Kolar, Karnataka, India. 8-9, February 2024.**
3. Maharajan T, Krishna TPA, Ceasar SA (2022). Reducing phytic acid content in the seeds of foxtail millet through CRISPR/Cas9 system. International Conference on Plant Genetic Engineering and Genome Editing" **Central University of Kerala, Kasaragod, Kerala-671320, India. January 27th to 29th, 2022.**
4. Maharajan T, Krishna TPA, **Ceasar SA** (2022). Identification of QTL associated with agromorphological and phosphorus content traits of finger millet under two contrasting phosphorus levels by linkage mapping. International Conference - "Harnessing the potential of Finger millet for Achieving Food and Nutritional Security: Challenges and Prospects (ICFM-2022)" **University of Agricultural Sciences, Bangalore 560065, Karnataka, India. January 19th to 22nd, 2022.**
5. Krishna TPA, Maharajan T, **Ceasar SA** (2022). Identification of quantitative trait loci [QTL] for low zinc tolerance in finger millet [*Eleusine coracana* (L.) Gaertn.] through linkage mapping. International Conference - "Harnessing the potential of Finger millet for Achieving Food and Nutritional Security: Challenges and Prospects (ICFM-2022)" **University of Agricultural Sciences, Bangalore 560065, Karnataka, India. January 19th to 22nd, 2022.**
6. Satish L, Rathinapriya P, Muthuramalingam P, Subramani P, **Ceasar SA**, Ramesh M (2020) Overexpression of *Erianthus arundinaceus* DREB2 transcription factor ameliorates the salinity and drought tolerance in *Eleusine coracana* cultivars. The 1st International Electronic Conference on Plant Science. **MDPI hosting conferences. 1st to 15th December 2020**
7. Ramakrishnan, M, Duraipandiyan V, **Ceasar SA**, K, Al-Dhabi NA, Ignacimuthu S (2016) Assessment of genetic diversity, population structure and relationships in finger millet (*Eleusine coracana* (L.) Gaertn) using genomic SSR markers. International symposium on medicinal plants and herbal drugs in human and livestock wealth- A global prospective (ISMPHD). PG and research Department of Botany, **Pachaiyappa's College, Chennai, India. 29th to 31st January 2016.**
8. **Ceasar SA**, Baldwin SA, Ignacimuthu S, Muench SP (2015) Structure and function of PHosphate Transporter1 (PHT1) proteins in foxtail millet (*Setaria italica*). Membrane Proteins from A to Z: Symposium around the Life and Work of Prof Stephen Baldwin. Poster

- presentation. **Faculty of Biological Sciences, University of Leeds, UK.** 16th to 17th December 2015.
9. Ramakrishnan M, **Cesar SA**, Duraipandiyan V, Kadirvel P, Ignacimuthu S (2014) Assessment of genetic diversity among finger millet (*Eleusine coracana* (L)) accessions using molecular markers. International Symposium: Trends in Plant Science Research. Poster presentation- Department of Botany, **University of Calcutta, Calcutta, India.** 15th to 16th February 2014.
 10. **Cesar SA** (2014) "Phosphate availability and colonisation with mycorrhizal fungus influence growth and phosphate transporter gene expression in foxtail millet". Oral presentation at **Centre for Plant Sciences Symposium (CPS), Faculty of Biological Sciences, University of Leeds, UK.** 22nd January 2014. **(Oral Presentation)**
 11. **Cesar SA**, A. Hodge, S.A. Baldwin, A. Baker (2013) "Expression dynamics of the Foxtail millet (*Setaria italica*) PHT1 family of phosphate transporters". Poster presentation- **Society of Experimental Biology (SEB) Annual Main meeting, Valencia, Spain.** 3rd July 2013 to 6th July 2013.
 12. **Cesar SA.** "Improving the phosphate use efficiency of crop plants" Pitch presentation at **Nutrition for Life Workshop.** Organized by Biosciences Knowledge Transfer Network (KTN, UK). **Edinburgh, Scotland, UK.** 9th April 2013 **(Oral Presentation)**
 13. Manikanadan R, Basha NA, Daniel A, **Cesar SA** (2006) "*In vitro* Callus and regeneration of finger millet (*Eleusine coracana* (L.) Gaertn)". Frontiers in Genetics and Biotechnology- Retrospect and Prospect, **Osmania University, Hyderabad, India.** 8th to 10th January 2006.
 14. Kausikm KB, Swaminathan S, **Cesar SA.** (2010) "*In vitro* propagation of *Plumbago zeylanica* L., a medicinally important plant". International Conference on Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation, Sustainable Utilization and Conservation (ICMPHD 2010). Department of Botany, **Pachaiyappa's College, Chennai, India.** March 4th to 6th 2010.

NATIONAL

1. **Cesar SA**, John J (2003) "Study of inhibitory effect of three plant extracts against dental caries causing microbes". National Seminar on Recent Trends in Biological Sciences. Department of Zoology, **Sri Paramakalyani College, Alwarkurichi, India.** 25th and 27th October. **(Oral Presentation)**
2. **Cesar S. A.** "Role of Biotechnology in Sustainable Agriculture". Natura-04 A National Level Technical Symposium, Department of Biotechnology, **St. Peter's Engineering College, Chennai, India.** 23rd and 24th September.
3. **Cesar SA** (2005) "Genetic engineering of crop plants for insect resistance: role of proteinase inhibitors". Natura 05 A National Level Technical Symposium, Department of Biotechnology, **St. Peter's Engineering College, Chennai, India.** 22nd and 23rd September. **(Oral Presentation)**
4. **Cesar SA** (2006) "Protein folding and diseases of misfolding: from theory to therapy". Natura- 06 A National Level Technical Symposium, Department of Biotechnology, **St. Peter's Engineering College, Chennai, India.** 4th and 5th October.

5. Maxwell SL, **Cesar SA** (2007) "Micropropagation of *Bacopa monnieri*- an endangered medicinal plant". "National Conference on Biotechnology and Conservation of Endangered Species" (NCBCES 2007). Chennai, India. 19th and 20th October.
6. **Cesar SA** (2007) "Current Scenario of GM crops". Natura- 07 A National Level Technical Symposium, Department of Biotechnology, **St. Peter's Engineering College, Chennai, India**. 8th and 9th October. (**Oral Presentation**)
7. **Cesar SA** (2010) Molecular (DNA) Assisted Plant Breeding for Crop Improvement. Natura-10 A National Level Technical Symposium. Department of Biotechnology, **St. Peter's Engineering College, Chennai, India**. 17th September.
8. Hillary VE, **Cesar SA** (2021). Genome engineering in mushroom using CRISPR/Cas system.' at "National Web Conference-Mushroom 2021: Mushroom Biology: Opportunities and Challenges", on 15th April 2021, organized by Mushroom Society of India and ICAR-Directorate of Mushroom Research, Solan, HP, India. Proceedings cum Abstract Book, pp. 26.
9. **Cesar SA** (2023). Biotechnological interventions for millet improvement. Proceedings of the National Conference on Millets. Millet Magic-2023. Sowing sustainable futures. Organized by Department of Biotechnology, SAFI Institute of Advanced Study, Malappuram, Kerala. 17th and 18th October, 2023. ISBN 978-93-6013-102-9.

NUCLEOTIDE SEQUENCES SUBMITTED TO GENBANK (NCBI)

- Number of partial gene sequences submitted to NCBI = 80
- Whole genome sequence submitted to NCBI = 1
Eudocima phalonia voucher ERILMC-049 mitochondrion, complete genome; Accession No: KY196412.1; Date of release: 13th September, 2017

CONFERENCES/ TRAININGS / WORKSHOPS / ATTENDED OR CONTRIBUTED TO

1. Organized an International Lecture by **Prof Alison Baker, University of Leeds, UK** on "**The Phosphorus paradox. Why it matters and how plants can help us solve it**" as part of the **Rajagiri Research Day Celebrations-2023** on **25th February, 2023** at Rajagiri College of Social Sciences, Kochi, Kerala, India
2. Organized a National Workshop Nagpur on '**Intellectual Property Rights (IPR) & Patents and Design Filing**' in association with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Government of India, on **20th July 2022** at Rajagiri College of Social Sciences, Kochi, Kerala, India
3. Organized a **National Science Day Celebrations** at Rajagiri College of Social Sciences on **28th February 2021**, **Dr Ajay K. Pandey, NABI, GoI**, delivered a special lecture.
4. "**Genebank Field Day**", Genebank, ICRISAT Pattancheru Hyderabad, India. 25/10/2019
5. "**1st Cologne Conference on Food for Future**", Cluster of Excellence in Plant Science (CEPLAS), University of Cologne, Cologne, Germany. 05/09/2018 to 07/09/2018
6. **BioForum 2018: A one-day workshop for Industry-Academic Interaction, University of Liege, Liege, Belgium, 17/05/2018**

7. **CRISPR/Cas9 workshop by Integrated DNA Technologies (IDT), University of Liege, Liege, Belgium, 07/03/2018**
8. **InBios Day Seminar, Institute of Biological Sciences (InBioS), University of Liege, Belgium, 01/02/2018**
9. **National Workshop on Innovations in Water Resource Management in Educational Institutions, Loyola College, Chennai, India, 25-11-2016 to 25-11-2016**
10. **Membrane proteins: from A to Z. University of Leeds, UK, 16-12-2015 to 17-12-2015**
11. **SPSS training, University of Leeds, UK, 8/7/2013**
12. **Workshop on Scientific Writing, University of Leeds, UK, 24/5/2012**
13. **National Seminar on Biopesticides in insect pest management, Entomology Research Institute, Loyola College, Chennai, India, 1/2/2008 to 2/2/2008**
14. **National Seminar on Recent Trends in Insect Pest Management, Entomology Research Institute, Loyola College, Chennai, India, 1/2/2007 to 2/2/2007**
15. **ISO internal Auditor Training, Creative Management Consultants, Chennai, India, 11/8/2006**
16. **Group Discussion for College Teachers, MBA Dept. St. Peter's Engineering College, Chennai, India, 16/2/2005**
17. **Students Guidance & Counselling, National Institute of Technical Teacher Training Research, Chennai, India, 5/8/2005 to 7/8/2005**
18. **Inter Collegiate Seminar on Clinical Biochemistry, Department of Biochemistry, Malankara Catholic College, Kaliakavilai, India, 02/08/2003**
19. **Workshop on Laboratory Techniques, Vivek Institute of Laboratory Medicine, Nagerkovil, India, 5/10/2002 to 6/10/2002**

MEMBERSHIP IN PROFESSIONAL SOCIETIES

1. Member (Lifetime), Biochemical Society, London, UK
2. Member (Lifetime), Society for Experimental Biology, UK
3. Member (Lifetime), Genome India International, India
4. Member, Society for Biological Chemists, IISc, Bangalore, India (2008 to 2009)

COLLABORATORS

- ✓ **Prof. Alison Baker**, University of Leeds, United Kingdom.
- ✓ **Dr Marc Hannikene**, University of Liège, Belgium.
- ✓ **Dr Himabindu Kudapa**, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India.
- ✓ **Rev. Dr. S. Ignacimuthu, s.j.**, Ph.D., D.Sc., (Former VC, University of Madras) St. Xavier's College, India.

