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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)

Department of Biotechnology

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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. Josph 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)
 - 9) Rakkammal, K., Muthuramalingam, P., Maharajan, T., Awere, C.O., Maheswari, R.U., **Ceasar, S.A.**, Shin, H. and Ramesh, M., (2026). Genome-wide identification and validation of Na⁺/H⁺ antiporter (NHX) gene family in finger millet under salt stress. *Current Research in Biotechnology*. Volume 11, 100365. <https://doi.org/10.1016/j.crbiot.2026.100365>. **IF: 4.0 (Netherlands)**.

- 10) Samiya, S., Amalraj, S., Prabhu, S., Ayyanar, M., Kadaikunnan, S., **Ceasar, SA.**, Alharbi NS, Thiruvengadam M, Kalaskar MG, Gurav S., Thiruvengadam, R. (2026). Drug Repurposing Approaches for Lassa Virus from Secondary Metabolites of Medicinal Fungi: An Insight from Multifaceted Drug Designing Approaches. *Journal of Computational Biophysics and Chemistry*, 25(3), 347-374. **IF: 2.3 (Singapore).**
- 11) **Ceasar, SA*** (2025). Biotechnological Improvement of Nutri-Cereal Finger Millet: Current Status and Future Prospects. *Crops*, 5(6), 87. <https://doi.org/10.3390/crops5060087> **IF: 1.9 (Swiss).** (*Single & corresponding author).
- 12) Hillary VE, Rajan V, **Ceasar SA*** (2025) CRISPR's impact on cancer: From fundamental models to clinical solutions. *Life Sciences*. Vol 14:124087. <https://doi.org/10.1016/j.lfs.2025.124087> **IF: 5.1 (USA).** (*Corresponding author).
- 13) Amalraj S, **Ceasar SA*** (2025) Exploring the phytochemical diversity of millets: the path to improved health and disease prevention. *Food Bioscience*. 107834. <https://doi.org/10.1016/j.fbio.2025.107834>. **IF: 5.9 (UK).** (*Corresponding author).
- 14) Luo, Y., **Ceasar, S.A.** Benabdellah, K. (2025) Trajectory of genome editing technology. *BMC Biology*. 23, 351. <https://doi.org/10.1186/s12915-025-02450-1> **IF: 4.5 (UK).**
- 15) Mohan PK, Krishna TA, Stephy PP, **Ceasar SA**, Krishna TA, Annamalai A, Kolandhasamy P, Abdi G. (2025) Anti-urolithiatic potential of *Pleurolobus gangeticus* against calcium-sensing receptor and oxalate oxidase targets. *Results in Chemistry*. <https://doi.org/10.1016/j.rechem.2025.102906>. **IF: 4.2 (The Netherlands).**
- 16) **Ceasar, SA***, Ebeed HT, Ramakrishnan M, García-Caparrós P, Ignacimuthu S (2025). Understanding low-phosphate stress responses in plants: Opportunities for genome editing to improve phosphorous use efficiency (PUE). *Biotechnology Advances*, 108686. <https://doi.org/10.1016/j.biotechadv.2025.108686>. **IF: 12.5 (USA).** (*Corresponding author).
- 17) Kasanaboina, K., Ishwarya Lakshmi, V., Nandigam, S.R. Jagadeesh, K., **Ceasar, S.A***, (2025) The role of millets in climate-resilient agriculture for conserving global food security amidst climate change. *The Nucleus*. <https://doi.org/10.1007/s13237-025-00599-2>. **IF: 2.6 (India).** (*Corresponding author).
- 18) Nandini, C., Joshi, D.C., Maharajan, T., Nandini, B., Gazala Parveen, S., Dushyanth Kumar, B.M., Bhinda, M.S., Nagaraja, T.E., Bhat, S., Bhavani, P. and **Cesar, S.A., 2025.** Reviving the Abandoned Browntop Millet (*Urochloa ramosa* (L.)) for Sustainable Future Food Systems: Current Knowledge and Emerging Paradigms. *Plant Breeding*. <https://doi.org/10.1111/pbr.70014>. **IF: 1.8 (UK).**
- 19) Hillary, V.E., Senthamarai, M.D., Antony, T.J., **Ceasar, S.A***, Rajan, M.R., Jagannathan, K., Ebeed, H.T. and Ignacimuthu, S., 2025. Characterization of a silver nanoparticle derived from the fruit peel of *Myristica fragrans* on mosquito control. *International Journal of Tropical*

- Insect Science*, 45, 1881–1891. <https://doi.org/10.1007/s42690-025-01569-6>. **IF: 1.2 (Swiss)**. (*Corresponding author)
- 20) Llanderal, A., Vasquez Muñoz, G., Pincay-Solorzano, M. S., **Ceasar, S. A.**, & García-Caparros, P. (2025). Growth, Spectral Vegetation Indices, and Nutritional Performance of Watermelon Seedlings Subjected to Increasing Salinity Levels. *Agronomy*, 15(7), 1620. **IF: 3.4 (Swiss)**.
- 21) Thakur, N., Dishri, M., Nath, A.K., Chahota, R.K., **Ceasar S.A.*** (2025). Millets as climate-resilient crops: mitigating food and nutrient insecurity. *Cereal Research Communications*. <https://doi.org/10.1007/s42976-025-00680-1>. **IF: 1.9 (Hungary)**. (*Corresponding author).
- 22) Krishnakumar, N. M., Ceasar, S. A. (2025). A mini review on ethnomedicinal uses, phytochemistry and pharmacological properties of Indian Wampi plant: *Clausena indica* (Dalzell) Oliv. *Current Traditional Medicine*, 11(3), E051023221758. <https://doi.org/10.2174/0122150838258642230920054729>. **IF: 0.9 (UAE)**
- 23) Murugesan, T., Kaliamoorthy, S., Choudhary, S. Vysyaraju K, Gudela DS, Anusha A, Goud KS, Loftus S, Dippold MA, Kanuri S, Baddam R, Baker A, **Ceasar SA**, Kholova J (2025). Effects of phosphorus availabilities on growth and yield of foxtail millet: insights from high-throughput phenotyping platforms. *Planta* 261, 112 (2025). <https://doi.org/10.1007/s00425-025-04672-7>. **IF: 4.540 (Germany)**.
- 24) Priya, S. P., Amalraj, S., Padmanabhan, V., Rahman, M. M., Chaitanya, N. C., Hashim, N. T., Prabhu, S., Ayyanar, M., Gurav, S., **Ceasar, S. A.**, & Thiruvengadam, R. (2025). Evaluating the Antiviral Potential of Polyherbal Formulation (Kabasura Kudineer) Against Monkeypox Virus: Targeting E5, Poxin, and DNA Polymerase Through Multifaceted Drug Discovery Approaches. *Life*, 15(5), 771. <https://doi.org/10.3390/life15050771> **IF: 3.2 (Swiss)**.
- 25) Krishna, T.P.A., Maharajan, T., Rakkammal, K., Shilpha J, Ramakrishnan M, **Ceasar SA***, Ramesh M, Ignacimuthu S (2025). Identification of quantitative trait loci for zinc deficiency tolerance in finger millet (*Eleusine coracana* (L.) Gaertn) by linkage mapping and in silico analysis of candidate genes. *Cereal Research Communications*. <https://doi.org/10.1007/s42976-025-00644-5>. **IF: 1.9 (Hungary)**. (*Corresponding author)
- 26) Ceasar, S.A*., Baker, A*. (2025) Millets for food security and agricultural sustainability. *Planta*. 261, 39. <https://doi.org/10.1007/s00425-025-04613-4>. (*Corresponding authors) – Editorial Article. **IF: 4.540 (Germany)**.
- 27) Pandey, H., Misra, V., Mall, A.K. Sharma, A., Hillary, V.E., **Ceasar, S.A.**, (2025) Enhancing Sugar Crop Resilience to Abiotic Stress Using CRISPR/Cas Tools. *Sugar Technology*. <https://doi.org/10.1007/s12355-025-01561-x>. **IF: 1.8**
- 28) Sharma A#, **Ceasar SA***, Pandey H#, Devadas VS, Kesavan AK, Heisnam P, Vashishth A, Misra V, Mall AK (2025). Millets: Nutrient-rich and climate-resilient crops for sustainable agriculture and diverse culinary applications. *Journal of Food Composition and Analysis*,

- 137, 106984. <https://doi.org/10.1016/j.jfca.2024.106984>. **IF: 4.0 (USA)**. (*Corresponding author; #Equal contributions).
- 29) Papade JN, Ingle KP., Thakur NR., Gomashe SS., Padmavathy M., **Cesar, S. A.*** (2025). Tapping into the Potential of Underutilized Niger (*Guizotia abyssinica* (L. f.) Cass.) Through Breeding and Biotechnological Tools. *Agriculture*, 15(3), 350. <https://doi.org/10.3390/agriculture15030350>. **IF: 3.6 (Swiss)**. (*Corresponding author)
- 30) Kavitha R, Prabhu S, Prakash N, Amalraj S, Ayyanar M, Kadaikkunnan S, Kalaimathi K, **Caesar SA**, Priya SP, Gurav S, Kalaskar M (2025) Design and Synthesis of a Novel Pyrazole-Based Molecule with Potential Anticancer and Antimicrobial effects: A Multifaceted in silico Approach. *Journal of Molecular Structure*, p.140536. **IF: 4.0 (Netherlands)**.
- 31) Senthamarai, M. D[#], Hillary, V[#]. E., Rajan, M. R^{*}, **Cesar, S. A.***, & Ignacimuthu, S. (2025). Phyto-synthesis of selenium nanoparticles using *Mentha spicata* (mint) extract and its larvicidal and antibacterial activities. *Journal of Asia-Pacific Entomology*, 28(1), 102370. <https://doi.org/10.1016/j.aspen.2025.102370> . **IF: 1.1 (USA)**. (*Corresponding authors; #Equal contributions).
- 32) **Cesar SA***, Prabhu S, Ebeed HT (2024) Protein research in millets: current status and way forward. *Planta* 260, 43. <https://doi.org/10.1007/s00425-024-04478-z>. **IF: 4.540 (Germany)**. (*Corresponding author).
- 33) **Cesar SA***, Ebeed HT (2024) The Present State and Impact of AI-Driven Computational Tools for Predicting Plant Protein Structures. *Protein & Peptide Letters*; Volume 32, Issue, DOI: 10.2174/0109298665335283. Volume 31, Issue 10, pp. 749 – 758. **IF: 1.0 (UAE)**. (*Corresponding author)
- 34) Jadhav Y, Thakur NR, Ingle KP, **Cesar SA*** (2024) The role of phenomics and genomics in delineating the genetic basis of complex traits in millets. *Physiologia Plantarum*, 176(3), e14349. <https://doi.org/10.1111/ppl.14349>. **IF: 6.4 (UK)**. (*Corresponding author).
- 35) Vincent, S.A., Noorjahan, K.K., Maharajan, T., **Cesar, S.A.**, Thomas, A.M., Gokul, K., Samad, R., Mathew, P. and Antony, S.P., (2024). Profiling of thymosin beta 3 peptide (Pmthymosin3) expression across tissues and developmental stages in *Penaeus monodon*, and its antimicrobial potential via in silico analysis. *Blue Biotechnology*. 1, 21 (2024). <https://doi.org/10.1186/s44315-024-00021-7>. **BMC publications - Part of Springer Nature (Open Access)**.
- 36) Hillary VE, Cesar SA* (2024) CRISPR/Cas system-mediated base editing in crops: recent developments and future prospects. *Plant Cell Rep* 43, 271 (2024). <https://doi.org/10.1007/s00299-024-03346-0>. **IF: 5.3 (German)**. (*Corresponding author).
- 37) Maharajan T, **Cesar, SA***, Ajeesh Krishna TP (2024). Harnessing the Transcriptomic Resources of Millets to Decipher Climate Resilience and Nutrient Enrichment Traits. *Critical*

- Reviews in Plant Sciences*, 1–28. <https://doi.org/10.1080/07352689.2024.2354981>. **IF: 6.9 (UK)**. (*Corresponding author).
- 38) Prabhu S, Kalaimathi K, Thiruvengadam M, Ayyanar M, Shine K, Amalraj S, Ceasar SA, Priya, SP, Prakash N (2024) Antiviral mechanisms of dietary polyphenols: recent developments as antiviral agents and future prospects in combating Nipah virus. *Phytochemistry Reviews*. <https://doi.org/10.1007/s11101-024-10017-1>. **IF: 7.3 (Netherlands)**.
- 39) Lenin KLD, Maharajan T, **Ceasar SA**, Antony SP (2024) Transcriptomic and Bioinformatic Analysis of Histone H2A-genes in *Lates calcarifer* and *Oreochromis niloticus* upon *Vibrio vulnificus* Challenge, *Comparative Immunology Reports*, Volume 7, e200180 <https://doi.org/10.1016/j.cirep.2024.200180>. **IF: 2.2 (UK)**.
- 40) Udhayakumar M, Varadharajan M, Pachu AV, Krishna TPA, Ceasar SA, Jeyasundar PGSA, Parameswaran ADM (2024) Exploring the role of beneficial soil microbiomes associated with mangroves of Kerala in India. *Biologia*. <https://doi.org/10.1007/s11756-024-01821-3>. **IF: 1.4 (German)**.
- 41) Senthamarai MD, Hillary VE, Rajan MR, Ceasar SA (2024) Biosynthesis of selenium nanoparticles and its biological applications: A systematic review. *Nano-Structures & Nano-Objects*. Volume 39, <https://doi.org/10.1016/j.nanoso.2024.101261>. (SCOPUS-Indexed) **(Netherlands)**.
- 42) Ebeed H, Baz M, Habib E, Prabhu S, Ceasar SA (2024) Integrated metabolomic analysis and molecular docking: Unveiling the potential of *Nephrolepis exaltata* (L.) Schott phytocompounds for mosquito control via glutathione-S-transferase targeting. *International Journal of Biological Macromolecules* Volume 273, Part 2, 133072, <https://doi.org/10.1016/j.ijbiomac.2024.133072>. **IF: 8.2 (Netherlands)**.
- 43) Bhavani, P., Nandini, C., Maharajan, T. **Ceasar, SA** et al (2024) Brown-top millet: an overview of breeding, genetic, and genomic resources development for crop improvement. *Planta* 260, 10. <https://doi.org/10.1007/s00425-024-04446-7>. **IF: 4.540 (Germany)**.
- 44) Ebeed HT, **Ceasar SA** (2024) Genomics and bioinformatics applications in crop stress: Unraveling molecular mechanisms for sustainable agriculture. *South African Journal of Botany*, Volume 170, pp 38-47, <https://doi.org/10.1016/j.sajb.2024.05.015>. **IF: 3.111 (SA)**.
- 45) Maharajan T, Krishna TPA, Krishnakumar NM, Vetriventhan M, Kudapa H, **Ceasar, S.A***. (2024) Role of Genome Sequences of Major and Minor Millets in Strengthening Food and Nutritional Security for Future Generations. *Agriculture* 14, 670. <https://doi.org/10.3390/agriculture14050670>. **IF: 3.6 (Swiss)**. (*Corresponding author)
- 46) PadmavathyB, Samuel E, Karthikeyan K, Arumugam M, Ayyanar M, Padma Priya S, Amalraj S, Prabhu S*, Ceasar SA* (2024) *Terminalia Arjuna* (Roxb.) Wight & Arn: Unveiling its Potential as a Mosquito Control Agent through Biosynthesized Nanomaterials and Computational Analysis against *Aedes Aegypti* and *Aedes Albopictus*. *Open Biotechnology*

- Journal.** 18. DOI: 10.2174/0118740707325368240722062451. **IF: NA** (*Corresponding author) (UAE) (**Scopus Indexed**).
- 47) **Cesar SA**, Kavas M (2024) Plant genome editing to achieve food and nutrient security. **BMC Methods.** 1, 3 (2024). <https://doi.org/10.1186/s44330-024-00003-6>. (Editorial Article)
- 48) Prabhu S, Kalaimathi K, Sheshadri J, Ayyanar M, Kadaikunnan S, Thiruvengadam M, Amalraj S, **Cesar SA**, Alharbi NS, Sanjeevi B, Priya SP (2024) Cyanobacterial Metabolites as promising neuroprotective agents by Targeting Phosphoglycerate Kinase 1: dynamic *in silico* approaches. **Journal of Computational Biophysics and Chemistry.** <https://www.worldscientific.com/doi/epdf/10.1142/S2737416524500133>. **IF: 2.2**
- 49) Gandhi GR, Sharanya CS, Jayanandan C, Haridas M, Hillary VE, Gandhi SR, Sridharan G, Sivasubramanian R, Vasconcelos ABS, Montalvão MM, Cesar SA, Sousa NFD, Scotti L, Scotti MT, Gurgel RQ, Quintans-Júnior LJ (2023): Multitargeted molecular docking and dynamics simulation studies of flavonoids and volatile components from the peel of *Citrus sinensis* L. (Osbeck) against specific tumor protein markers, **Journal of Biomolecular Structure and Dynamics** 42 (6), 3051-3080. <https://doi.org/10.1080/07391102.2023.2212062>. **IF: 5.235 (UK).**
- 50) Hillary VE, **Cesar SA*** & Ignacimuthu S (2024) Efficacy of plant products in controlling disease vector mosquitoes, a review. *Entomologia Experimentalis et Applicata* 00: 1–20. <https://doi.org/10.1111/eea.13401>. **IF: 1.9 (UK).** (*Corresponding author)
- 51) Krishna, T. P. A., Krishnakumar, N. M., Maharajan, T., & Cesar, S. A* (2024). Rapid *In Vitro* Regeneration and Genetic Fidelity Assessment of Regenerated Plants in Ayapana Triplinervis (Vahl) RM King & H. Robinson: An Ethnomedicinal and Ornamental Herb. **The Open Biotechnology Journal**, 18(1). DOI: 10.2174/0118740707192866240116112512. **IF: NA** (*Corresponding author) (UAE) (**Scopus Indexed**).
- 52) **Cesar SA***, Maharajan T, Garcia-Caparros, P (2023) Functional residues in plant nutrient transporters: an opportunity for gene editing to improve agronomic traits. **Critical Reviews in Plant Sciences.** 42 (5), 324-343. <https://doi.org/10.1080/07352689.2023.2243108>. **IF: 6.9 (UK).** (*Corresponding author)
- 53) Ramakrishnan M, Zhou M, **Cesar SA**, Doulathunnisa JA, Maharajan T, Vinod KK, Sharma A, Ahmad Z, Wei Q (2023) Epigenetic modifications and miRNAs determine the transition of somatic cells into somatic embryos. **Plant Cell Reports.** 42 (12), 1845-1873. <https://doi.org/10.1007/s00299-023-03071-0> **IF: 6.2 (Germany).**
- 54) Gandhi GR, Mohana T, Athesh K, Hillary VE, Vasconcelos ABS, Farias de Franca MN, Montalvão MM, **Cesar SA**, Jothi G, Gridharan G, Gurgel RQ, Xu B (2023) Antiinflammatory natural products modulate interleukins and their related signaling markers in inflammatory bowel disease: a systematic review, **Journal of Pharmaceutical Analysis,** <https://doi.org/10.1016/j.jpha.2023.09.012> **IF: 8.8 (China).**

- 55) Maharajan T, Krishna TPA, Shilpha J, **Cesar SA*** (2023) Effects of individual or combined deficiency of phosphorous and zinc on phenotypic, nutrient uptake, and molecular responses of finger millet (*Eleusine coracana*): a nutri-rich cereal crop. *Plants*. Volume 12(19): 3378. <https://doi.org/10.3390/plants12193378> **IF: 4.5 (Swiss)**. (*Corresponding author)
- 56) Krishna ATP, Maharajan T, **Cesar SA***, Ignacimuthu S (2023). Zinc supply influences the root-specific traits with the expression of root architecture modulating genes in millets. *Journal of Soil Science and Plant Nutrition*. (online First). <https://doi.org/10.1007/s42729-023-01419-9>. **IF: 3.9 (Chile)**. (*Corresponding author 23 (4), 5527-5541)
- 57) Krishna TPA, Maharajan T, Adarsh K, Cesar SA* (2023) Insights into metabolic engineering of bioactive molecules in *Tetrastigma hemsleyanum* Diels & Gilg: a traditional medicinal herb, *Current Genomics*. 24 (2), 72. <https://dx.doi.org/10.2174/0113892029251472230921053135> **IF: 2.8 (UAE)**.
- 58) Adarsh K, Krishna TPA, Edachery B, Cesar SA* (2023) Guggulsterone – a potent bioactive phytosteroid: synthesis, structural modification, and its improved bioactivities. *RSC Medicinal Chemistry*. <https://doi.org/10.1039/D3MD00432E> (online first) **IF: 4.1 (UK)**.
- 59) Gandhi GR, Hillary EV, Athesh K, da Cruz RLCM, de Oliveira KPG, Jothi G, Sridharan G, Sivasubramanian R, Hariharan G, Vasconcelos BSA, Montalvão MM, **Cesar SA**, da Silva CKV, Gurgel QR (2023) The use of nanocarriers to enhance the anti-neuroinflammatory potential of dietary flavonoids in animal models of neurodegenerative diseases: a systematic review *Mini-Reviews in Medicinal Chemistry*. <https://dx.doi.org/10.2174/1389557523666230907093441>. **IF: 3.8 (UAE)**
- 60) **Cesar SA***, Ignacimuthu S (2023) CRISPR/Cas genome editing in plants: Dawn of *Agrobacterium* transformation for recalcitrant and transgene-free plants for future crop breeding. *Plant Physiology and Biochemistry*, (online first). <https://doi.org/10.1016/j.plaphy.2023.02.030>. **IF: 5.437 (UK)**. (*Corresponding author)
- 61) Rakkammal, K., Pandian, S., Maharajan, T. **Cesar SA**., Sohn S., Ramesh M (2023) Humic acid regulates gene expression and activity of antioxidant enzymes to inhibit the salt-induced oxidative stress in finger millet. *Cereal Research Communications*. <https://doi.org/10.1007/s42976-023-00429-8>. **IF: 1.6**
- 62) Rani JMA, Kalaimathi K, Prabhu S, Ayyanar M, Kadaikunnan S, Vijayakumar S, Priya S, Sheshadri J, Amalraj S, Thiruvengadam M, **Cesar SA** (2023) Unravelling the influenza virus inhibitory potential: Ligand-based docking, pharmacophore, M-GBSA, and molecular dynamic simulation of phytochemicals and cyanobacteria metabolites. *Intelligent Pharmacy*, 2 (1), 83-93.. <https://doi.org/10.1016/j.ipha.2023.06.002>.
- 63) Krishna ATP, Maharajan T, **Cesar SA** (2023). Significance and genetic control of membrane transporters to improve phytoremediation and biofortification processes. *Molecular*

- Biology Reports** 50 (7), 6147-6157. <https://doi.org/10.1007/s11033-023-08521-2>. **IF: 2.742 (Netherlands)**. (*Corresponding author).
- 64) Ingle K*, Moharil M, Gahukar S, Jadhav P, Ghorade R, Thakur N, Kasanaboina K, **Cesar SA*** (2023) Assessment of cytomorphological differences in sorghum fertility restoration. **Agriculture** 2023, 13 (5), 985. <https://doi.org/10.3390/agriculture13050985>. **IF: 3.6 (Swiss)**. (*Corresponding author)
- 65) Kalaimathi K, Shine K, Gandhi GR, Vijayakumar S, Ayyanar M, Amalraj S, Varatharaju G, Thiruvengadam M, **Cesar SA**, Prabhu S, Jose J (2023) Cyanobacterial metabolites as novel potential suppressors of breast cancer: A comparative in silico pharmacological assessment, **Intelligent Pharmacy**. <https://doi.org/10.1016/j.ipha.2023.06.002>. Volume 1, Issue 3, Pages 133-144.
- 66) Gandhi SR, Gandhi GR, Antony PJ, Gurgel RQ, Quintans JSS, Quintans-Jún LJ (2023) Zhong LLD, Yogesh D, Krishnakumar NM, **Cesar SA** Gan R (2023): Health functions and related molecular mechanisms of *Miconia* genus: A systematic review. **Heliyon**. Volume 9, Issue 3, E14609. <https://doi.org/10.1016/j.heliyon.2023.e13952>. **IF: 3.776 (Netherlands)**.
- 67) Krishna TPA, Cesar SA*, Maharajan T (2023) Biofortification of Crops to Fight Anemia: Role of Vacuolar Iron Transporters. **Journal of Agriculture and Food Chemistry**. (online first). <https://doi.org/10.1021/acs.jafc.2c07727>. **IF: 5.895 (USA)**. (*Corresponding author)
- 68) Hillary VE, Cesar SA* (2023) An update on COVID-19: SARS-CoV-2 variants, antiviral drugs, and vaccines. **Heliyon**. Volume 9, Issue 3, e13952. <https://doi.org/10.1016/j.heliyon.2023.e13952>. **IF: 3.776 (Netherlands)**. (*Corresponding author)
- 69) Gandhi GR, Hillary VE, Antony PJ, Zhong LLD, Yogesh D, Krishnakumar NM, **Cesar SA** Gan R (2023): A systematic review on anti-diabetic plant essential oil compounds: Dietary sources, effects, molecular mechanisms, and safety. **Critical Reviews in Food Science and Nutrition**. <https://doi.org/10.1080/10408398.2023.2170320>. **IF: 11.208 (UK)**.
- 70) Maharajan T, Krishna TPA, **Cesar SA***, Ignacimuthu S (2023). Zinc supply influenced the growth, yield, zinc content, and expression of ZIP family transporters in sorghum. **Planta** 257, 44 (2023). <https://doi.org/10.1007/s00425-023-04076-5>. **IF: 4.540 (Germany)**. (*Corresponding author)
- 71) Gandhi SR, Gandhi GR, Antony PJ, Gurgel RQ, Quintans JSS, Quintans-Jún LJ (2023) Zhong LLD, Yogesh D, Krishnakumar NM, **Cesar SA** Gan R (2023): Natural sources, biosynthesis, biological functions, and molecular mechanisms of shikimic acid and its derivatives. **Asian Pacific Journal of Tropical Biomedicine**. Volume 13(4): pp 139-147. DOI: 10.4103/2221-1691.374230. **IF: 1.51. (Netherlands)**.
- 72) Rakkammal K, Maharajan T, Shriram RN, Ram PSJ, **Cesar SA***, Ramesh M* (2023) Physiological, biochemical and molecular responses of finger millet (*Eleusine coracana*) genotypes exposed to short-term drought stress induced by PEG-6000. **South African**

- Journal of Botany*, Volume 155, PP 45-59. <https://doi.org/10.1016/j.sajb.2023.01.053>. **IF: 3.111 (SA)**. (*Corresponding author)
- 73) Maharajan T, Krishna ATP, Rakkammal K, Ramakrishnan M, **Cesar SA***, Ramesh M, Ignacimuthu S (2023) Identification of QTL associated with agro-morphological and phosphorus content traits in finger millet under differential phosphorus supply via linkage mapping. *Agriculture* 2023, 13, 262. <https://www.mdpi.com/2077-0472/13/2/262/htm>. **IF: 3.408 (Swiss)**. (*Corresponding author)
- 74) **Cesar SA***, Maharajan T, Hillary VE, Krishna TPA (2022) Insights to improve the plant nutrient transport by CRISPR/Cas system. *Biotechnology Advances*. Vol 59,107963. <https://doi.org/10.1016/j.biotechadv.2022.107963>. **IF: 17.681 (USA)**. (*Corresponding author)
- 75) Maharajan T, Chellasamy G, Krishna TPA, **Cesar SA***, Yun K (2022) The role of metal transporters in phytoremediation: A closer look at Arabidopsis. *Chemosphere*. <https://doi.org/10.1016/j.chemosphere.2022.136881>. **IF: 8.943 (UK)**. (*Corresponding author)
- 76) Rakkammal K, Priya A, Pandian S, Maharajan T, Rathinapriya P, Satish L, **Cesar SA**, Sohn S-I, Ramesh M (2022) Conventional and Omics Approaches for Understanding the Abiotic Stress Response in Cereal Crops-An Updated Overview. *Plants*. 11(21):2852. <https://doi.org/10.3390/plants11212852>. **IF: 4.658 (Swiss)**.
- 77) Maharajan T, Krishna TPA, Rakkammal K, **Cesar SA***, Ramesh M (2022) Application of CRISPR/Cas system in cereal improvement for biotic and abiotic stress tolerance. *Planta* 254, 90. DOI: 10.1007/s00425-022-04023-w. **IF: 4.540 (Germany)** (*Corresponding author).
- 78) Hillary VE, **Cesar SA*** (2022) A review on the mechanism and applications of CRISPR/Cas9/Cas12/Cas13/Cas14 proteins utilized for genome engineering. *Molecular Biotechnology*. <https://doi.org/10.1007/s12033-022-00567-0>. **IF: 2.860 (USA)**. (*Corresponding author) [**HIGHLY ACCESSED AND CITED ARTICLE**]
- 79) Gandhi GR, Antony PJ, **Cesar SA**, Vasconcelos ABS, Montalvão MM, Franca MN, Resende AD, Sharanya CS, Liu Y, Hariharan G, Gan R (2022) Health functions and related molecular mechanisms of ellagitannin-derived urolithins. *Critical Reviews in Food Science and Nutrition* 64 (2), 280-310, <https://doi.org/10.1080/10408398.2022.2106179> **IF: 11.208 (UK)**.
- 80) Johnson KVH, Krishna TPA, Dash M, Thiyageshwari S, **Cesar SA**, Selviet D (2022). Food and nutritional security: innovative approaches for improving micronutrient use efficiency in soybean (*Glycine max* (L.) Merrill) under hostile soils. *Journal of Soil Science and Plant Nutrition*. <https://doi.org/10.1007/s42729-022-01025-1>. **IF: 3.610 (Chile)**.
- 81) Krishnakumar NM, Manikantan K, Suja SNR, Latha PG, **Cesar SA** (2022) *Morinda umbellata* active fraction inhibits lipopolysaccharide induced proinflammatory cytokines by

- downregulating NF- κ B activation, *Toxicology Research*, tfac063, <https://doi.org/10.1093/toxres/tfac063>. **IF: 2.680 (UK)**.
- 82) Hillary VE, **Cesar SA*** (2022) Prime editing in plants and mammalian cells: mechanism, achievements, limitations, and future prospects. *Bioessays*. <https://doi.org/10.1002/bies.202200032>. **IF: 4.653 (USA)**. (*Corresponding author)
- 83) **Cesar SA*** (2021) Foxtail millet (*Setaria italica*) as a model system to study and improve the nutrient transport in cereals. *Plant Growth Regulation*. <https://doi.org/10.1007/s10725-022-00878-x> (In press). **IF: 3.242. (Netherlands)** (*Corresponding author)
- 84) Rakkammal K, Maharajan T, **Cesar SA**, Ramesh M (2022). Biostimulants and their role in improving plant growth under drought and salinity. *Cereal Research Communications*. <https://doi.org/10.1007/s42976-022-00299-6>. **IF: 1.240**.
- 85) Ingle KP, Suprasanna P, Narkhede GW, **Cesar SA**, Abdi G, Raina A, Moharil MP, Singh A (2022). Biofortified foxtail millet: towards a more nourishing future. *Plant Growth Regulation*. <https://doi.org/10.1007/s10725-022-00900-2>. **IF: 3.242. (Netherlands)**
- 86) Maharajan T#, **Cesar SA****, Krishna TPA (2022) Finger millet (*Eleusine coracana* (L.) Gaertn): nutritional importance and nutrient transporters. *Critical Reviews in Plant Sciences*. Vol 41, Issue 1, pp 1-31. <https://doi.org/10.1080/07352689.2022.2037834>. **IF: 6.289 (UK)**. (*Corresponding author; #Equal contributions)
- 87) Krishnakumar NM, **Cesar SA** (2022) Wild Edible and Medicinal Mushrooms Used by the Tribes in the State of Kerala, India: A Review. *International Journal of Medicinal Mushrooms*. Vol 24, Issue 9, pp. 63-72. DOI: 10.1615/IntJMedMushrooms.2022044605. **IF: 1.92**.
- 88) Krishna TPA, Maharajan T, **Cesar SA*** (2022) Application of CRISPR/Cas9 Genome Editing System to Reduce the Pre- and Post-Harvest Yield Losses in Cereals. *The Open Biotechnology Journal*. Vol 16 (1). DOI: 10.2174/18740707-v16-e2205190. **IF: NA** (*Corresponding author) (UAE) (**Scopus Indexed**).
- 89) Krishna TPA, Maharajan T, **Cesar SA*** (2022) Improvement of millets in the post-genomic era. *Physiology and Molecular Biology of Plants*. <https://doi.org/10.1007/s12298-022-01158-8>. **IF: 3.023**. (*Corresponding author)
- 90) **Cesar SA***, Maharajan T (2022) The role of millets role in attaining United Nation's sustainable developmental goals. *Plants People Planet*. Vol 4 (4), pp 345-349. <https://doi.org/10.1002/ppp3.10254>. **IF: 5.695 (UK)** (*Corresponding author).
- 91) Krishna TPA, Maharajan T, **Cesar SA*** (2022) The Role of Membrane Transporters in the Biofortification of Zinc and Iron in Plants. *Biological Trace Elements Research*. <https://doi.org/10.1007/s12011-022-03159-w>. **IF: 4.081 (USA)**. (*Corresponding author)

- 92) **Cesar SA*** (2021) Genome-editing in millets: current knowledge and future perspectives. *Molecular Biology Reports*. 49, 773–781. DOI: 10.1007/s11033-021-06975-w. **IF: 2.742 (Netherlands)**. (*Corresponding author)
- 93) Maharajan T, Krishna TPA, Kiriyanthan RM, Ignacimuthu S, **Cesar SA*** (2021) Improving abiotic stress tolerance in sorghum: focus on the nutrient transporters and marker-assisted breeding. *Planta* 254, 90. DOI: 10.1007/s00425-021-03739-5. **IF: 4.540 (Germany)** (*Corresponding author).
- 94) Maharajan T, **Cesar SA**, Krishna TPA, Ignacimuthu S (2021) Management of phosphorus nutrient amidst climate change for sustainable agriculture. *Journal of Environmental Quality*. 50, 1303-1324. DOI: 10.1002/jeq2.20292. **IF: 3.866 (USA)** (*Corresponding author).
- 95) Hillary VE, **Cesar SA***, Ignacimuthu, S (2021) Potential of CRISPR/Cas system in the diagnosis of COVID-19 infection. *Expert Review of Molecular Diagnostics*. 21:11, 1179-1189. DOI: 10.1080/14737159.2021.1970535. **IF: 5.670 (UK)** (*Corresponding author).
- 96) Maharajan T, **Cesar SA***, Krishna TPA, Ignacimuthu S (2021) Finger millet (*Eleusine coracana* (L.) Gaertn): an orphan crop with a potential to alleviate the calcium deficiency in the semi-arid tropics of Asia and Africa. *Frontiers in Sustainable Food Systems*, 5, 258. DOI: 10.3389/fsufs.2021.684447. **IF: 5.005 (Switzerland)** (*Corresponding author).
- 97) Toppo E, Al-Dhabi NA, Sankar C, Kumar SN, Buvanavaragurunathan K, Darwin SS, Stalin A, Balakrishna K, **Cesar SA**, Pandikumar P, Ignacimuthu S, Sivasankaran K, Agastian P (2021) Hepatoprotective effect of selected isoandrographolide derivatives on steatotic HepG2 cells and High Fat Diet fed rats. *European Journal of Pharmacology*. <https://doi.org/10.1016/j.ejphar.2021.174056>. **IF: 5.195 (The Netherlands)**.
- 98) David RH, Ramakrishnan M, Maharajan T, Kannan TB, Babu GT, Daniel MA, Agastian P, **Caesar SA***, Ignacimuthu S* (2021) Mining QTL and genes for root traits and biochemical parameters under vegetative drought in South Indian genotypes of finger millet (*Eleusine coracana* (L.) Gaertn) by association mapping and in silico comparative genomics. *Biocatalysis and Agricultural Biotechnology*, Vol 32, 101935, doi:10.1016/j.bcab.2021.101935. **IF: NA (Scopus Indexed)**. (*Corresponding authors) **(The Netherland)**.
- 99) Roch GV, Maharajan T, Krishna TPA, Ignacimuthu S, **Cesar SA*** (2020) Expression of PHT1 family transporter genes contributes for low phosphate stress tolerance in foxtail millet (*Setaria italica*) genotypes. *Planta*. Vol 252(98), 1-9. doi: 10.1007/s00425-020-03503-1. **IF: 4.540 (Germany)** (*Corresponding author).
- 100) **Cesar SA**, Lekeux G, Motte P, Xiao Z, Galleni M, Hanikenne M (2020) di-Cysteine residues of the *Arabidopsis thaliana* HMA4 C-terminus are only partially required for cadmium transport. *Frontiers in Plant Science*. Vol 11(560), pp 1–8. DOI: 10.3389/fpls.2020.00560. **IF: 6.627 (Switzerland)**.

- 101) Vetriventhan, M., Azevedo, V.C.R., Upadhyaya, H.D., Nirmalakumari A, Kane-Potaka J, Anitha S, **Cesar SA**, Muthamilarasan M, Bhat BV, Hariprasanna K, Bellundagi A, Cheruku D, Backiyalakshmi C, Santra D, Vanniarajan C, Tonapi VA (2020) Genetic and genomic resources, and breeding for accelerating improvement of small millets: current status and future interventions. *The Nucleus*. Vol 63, pp 217-239. DOI: 10.1007/s13237-020-00322-3s. **IF: 2.7 (India)**.
- 102) **Cesar SA***, Ramakrishnan M, Vinod KK, Roch GV, Upadhyaya HD, Baker A*, Ignacimuthu S (2020) Phenotypic responses of foxtail millet (*Setaria italica*) genotypes to phosphate supply under greenhouse and natural field conditions. *PLoS One*. Vol 15(6), pp 1–25 DOI: 10.1371/journal.pone.0233896. **IF: 3.752 (USA)**. (*Corresponding authors).
- 103) Krishna TPA, Maharajan T, Roch GV, Ramakrishnan M, **Cesar SA***, Ignacimuthu S (2020) Hybridization and hybrid detection through molecular markers in finger millet (*Eleusine coracana* (L.) Gaertn.). *Journal of Crop Improvement*. Vol 34(3), pp 335–355. DOI: 10.1080/15427528.2019.1709596 (Online first). **IF: 1 (USA)** (Peer reviewed). (*Corresponding author) (**Scopus Indexed**).
- 104) Krishna TPA, Maharajan T, Roch GV, Ignacimuthu S, **Cesar SA***, (2020) Structure, function, regulation and phylogenetic relationship of ZIP family transporters of plants. *Frontiers in Plant Science*. Vol 11(662), pp 1-18. DOI: 10.3389/fpls.2020.00662. **IF: 6.627 (Switzerland)** (*Corresponding author).
- 105) Maharajan T, **Cesar SA***, Krishna TPA, Ignacimuthu S (2019) Phosphate supply influenced the growth, yield and expression of PHT1 family phosphate transporters in seven millets. *Planta*. Vol 250, pp 1433-1448. DOI: 10.1007/s00425-019-03237-9. **IF: 4.540 (Germany)** (*Corresponding author).
- 106) Hillary VE, **Cesar SA*** (2019) Application of CRISPR/Cas9 genome editing system in cereal crops. *The Open Biotechnology Journal*. Vol 13, pp 173–179. DOI: 10.2174/1874070701913010173. **IF: NA** (*Corresponding author) (**UAE**) (**Scopus Indexed**).
- 107) Roch GV, Maharajan T, **Cesar SA***, Ignacimuthu S* (2019) Role of PHT1 family transporters in the acquisition and redistribution of phosphorus in plants. *Critical Reviews in Plant Sciences* Vol 38, pp 171–198. DOI: 10.1080/07352689.2019.1645402. **IF: 6.289 (UK)** (*Corresponding authors).
- 108) **Cesar SA*** (2019) Genome-wide identification and *in silico* analysis of PHT1 family genes and proteins in *Setaria viridis*: a best model to study the nutrient transport in millets. *Plant Genome*. Vol. 12, No. 1: 180019. DOI: 10.3835/plantgenome2018.04.0019. **IF: 4.219 (USA)** (*Corresponding author).
- 109) **Cesar SA***, Maharajan T, Krishna TPA, Roch GV, Satish L, Ignacimuthu S* (2018) Finger millet (*Eleusine coracana* (L.) Gaertn.) improvement: current status and future interventions of whole genome sequence. *Frontiers in Plant Science*. Vol 9, e1054. pp 1-16. DOI: 10.3389/fpls.2018.01054. **IF: 6.627 (Switzerland)** (*Corresponding authors).

- 110) Krishna TPA, Maharajan T, Antony David RH, Ramakrishnan M, **Cesar SA***, Duraipandiyan V, Roch GV, Ignacimuthu S* (2018) Microsatellite markers of finger millet (*Eleusine coracana* (L.) Gaertn) and foxtail millet (*Setaria italica* (L.) Beauv) provide resources for cross-genome transferability and genetic diversity analyses in other millets. **Biocatalysis and Agricultural Biotechnology**. Vol 6, pp 493-501. DOI: 10.1016/j.bcab.2018.09.009. **IF: NA (The Netherlands)**. (Peer reviewed). (*Corresponding authors) (**Scopus Indexed**).
- 111) Darvin SS, Toppo E, Esakkimuthu E, Krishna TPA, **Cesar SA**, Stalin A, Balakrishna K, Muniappan N, Pazhanivel N, Mahaprabhu R, Paulraj MG, Pandikumar P, Ignacimuthu S, Al-Dhabi NA, (2018) Hepatoprotective effect of bisbenzylisoquinoline alkaloid tiliamosine from *Tiliacora racemosa* in high-fat diet/diethylnitrosamine-induced non-alcoholic steatohepatitis. **Biomedicine & Pharmacotherapy**. Vol 108, pp 963-973. DOI: 10.1016/j.biopha.2018.09.116. **IF: 7.419 (France)**.
- 112) Pandian S, Marichelvam K, Satish L, **Cesar SA**, Pandian SK, Ramesh M (2018) SPAR markers assisted assessment of genetic diversity and population structure in finger millet (*Eleusine coracana* (L.) Gaertn) mini core collection. **Journal of Crop Science and Biotechnology (Switzerland)**. (Peer reviewed). Vol 21, pp 469-481. DOI: 10.1007/s12892-018-0034-0. **IF: NA (Scopus Indexed)**.
- 113) Toppo E, Darvin SS, Buvanesvaragurunathan K, Esakkimuthu S, Krishna TPA, Stalin A, Kedike B, Pandikumar P, Al-Dhabi N, **Cesar SA**, Ignacimuthu S (2018) Curative effect of Arjunolic acid from *Terminalia arjuna* in non-alcoholic fatty liver disease models. **Biomedicine & Pharmacotherapy**. Vol 107, pp 979-988. DOI: 10.1016/j.biopha.2018.08.019. **IF: 7.419 (France)**.
- 114) **Cesar SA*** (2018) Feeding world population amidst depleting phosphate reserves: the role of biotechnological interventions. **The Open Biotechnology Journal**. Vol 12, pp 51-55. DOI: 10.2174/1874070701812010051. **IF: NA (*Corresponding author) (UAE)** (Peer reviewed). (**Scopus Indexed**).
- 115) Daniel MA, David RHA, **Caesar SA**, Ramakrishnana M, Duraipandiyan V, Ignacimuthu S, Al-Dhabi NA (2018) Effect of L-glutamine and casein hydrolysate in the development of somatic embryos from cotyledonary leaf explants in okra (*Abelmoschus esculentus* L. monech). **South African Journal of Botany**. Vol 114, pp 223-231. DOI: 10.1016/j.sajb.2017.11.014. **IF: 3.111 (SA)**.
- 116) Maharajan T, **Cesar SA***, Krishna TPA, Ramakrishnan M, Duraipandiyan V, Al-Dhabi NA, Ignacimuthu S* (2018) Utilization of molecular markers for improving the phosphorus efficiency in crop plants. **Plant Breeding**. Vol 137, pp 10-26. DOI: 10.1111/pbr.12537. **IF: 2.536 (UK)** (*Corresponding authors).
- 117) **Cesar SA***, Baker A, Ignacimuthu S (2017). Functional characterization of the PHT1 family transporters of foxtail millet with development of a novel *Agrobacterium*-mediated transformation procedure. **Scientific Reports**. Vol 7(1):14064. DOI: 10.1038/s41598-017-14447-0. **IF: 4.996 (UK)**. (*Corresponding author).

- 118) Vinothkumar R, **Cesar SA***, Divya Ruba A (2017) Chemosuppressive effect of Plumbagin on human non-small lung cancer cell xenotransplanted Zebrafish. **Indian Journal of Cancer**. Vol 54, Issue 1, pp 253-256. DOI: 10.4103/0019-509X.219580. **IF: 1.397 (India)**. (*Corresponding author)
- 119) Sivasankaran K, Mathew P, Anand S, **Cesar SA**, Mariapackiam S, Ignacimuthu S (2017) Complete mitochondrial genome sequence of fruit-piercing moth *Eudocima phalonia* (Linnaeus, 1763) (Lepidoptera: Noctuoidea). **Genomics Data**. Vol 14, pp 66-81. DOI: 10.1016/j.gdata.2017.09.004. **IF: NA** (Peer reviewed). (**Scopus Indexed**) (**USA**).
- 120) Satish L, **Cesar SA***, Ramesh M* (2017) Improved *Agrobacterium*-mediated transformation and direct plant regeneration in four cultivars of finger millet (*Eleusine coracana* (L.) Gaertn.). **Plant Cell Tissue and Organ Culture**. Vol 131, Issue 3, pp 547-565. DOI: 10.1007/s11240-017-1305-5. **IF: 2.726 (Netherlands)**. (*Corresponding authors).
- 121) Krishna TPA, **Cesar SA**, Maharajan T, Ramakrishnan M, Duraipandiyan V, Al-Dhabi NA, Ignacimuthu S (2017) Improving the zinc-use efficiency in plants: a review. **SABRAO Journal of Breeding and Genetics**. Vol 49(3), pp 211-230. **IF: NA** (Peer reviewed). (**Scopus Indexed**) (**Japan**).
- 122) Ramakrishnan, M, **Cesar SA**, Vinod K, Duraipandiyan V, T. P. Ajeesh Krishna, Hari D. Upadhyaya, Al-Dhabi NA, Ignacimuthu S (2017) Identification of putative QTLs for seedling stage phosphorus starvation response in finger millet (*Eleusine coracana* L. Gaertn.) by association mapping and cross species synteny analysis. **PLoS One**. Vol 12(8): e0183261. DOI: 10.1371/journal.pone.0183261. **IF: 3.752 (USA)**
- 123) **Cesar SA**, Rajan V, Prykhozhiy SV, Berman JN, Ignacimuthu S (2016) Insert, remove or replace: a highly advanced genome editing system using CRISPR/Cas9. **BBA-Molecular Cell Research**. Vol 1863, Issue 9, pp 2333-2344. DOI: 10.1016/j.bbamcr.2016.06.009. **IF: 5.011 (Netherlands)**
- 124) **Cesar SA***, Baker A, Muench SP, Baldwin SA, Ignacimuthu S (2016) The conservation of phosphate binding residues among PHT1 transporters suggests that distinct transport affinities are unlikely to result from differences in the phosphate binding site. **Biochemical Society Transactions**. Vol 44, Issue 5, pp 1541-1548. DOI: 10.1042/BST20160016. **IF: 4.919 (UK)** (*Corresponding author) <https://doi.org/10.1042/BST20160016>
- 125) Reegan AD, **Cesar SA**, Paulraj MG, Ignacimuthu S, Al-Dhabi NA (2016) Current status of genome editing in vector mosquitoes: A review. **BioScience Trends**. Vol 10, Issue 6, pp 424-432. DOI: 10.5582/bst.2016.01180. **IF: 9.083 (Japan)**
- 126) Ramakrishnan, M, **Cesar SA**, Duraipandiyan V, Vinod K, Kalpana K, Al-Dhabi NA, Ignacimuthu S (2016) Tracing QTLs for leaf blast resistance and agronomic performance of finger millet (*Eleusine coracana* (L.) Gaertn.) genotypes through association mapping and *in silico* comparative genomics analyses. **PLoS One**. Vol 11(7):e0159264. DOI: 10.1371/journal.pone.0159264. **IF: 3.752 (USA)**.

- 127) David RHA, Ramakrishnan, M, **Cesar SA**, Thirugnanasambantham K, Sivasankaran K, Ignacimuthu, S (2016) Analysis of molecular variance and population structure in southern Indian finger millet genotypes using three different molecular markers. **Journal of Crop Science and Biotechnology**. Vol 19, Issue 4, pp 275-283. DOI: 10.1007/s12892-016-0015-6. **IF: NA** (Peer Reviewed) (S Korea). (Scopus Indexed).
- 128) Satish L, Rathinapriya P, Rency SA, **Cesar SA**, Prathibha M, Pandian S, Rameshkumar R, Ramesh M (2016) Effect of salinity stress on finger millet (*Eleusine coracana* (L.) Gaertn): Histochemical and morphological analysis of coleoptile and coleorhizae. **Flora-Morphology, Distribution, Functional Ecology of Plants**. Vol 222, pp 111-120. DOI: 10.1016/j.flora.2016.04.006. **IF: 2.220** (USA)
- 129) Satish L, **Cesar SA**, Shilpha J, Rency AS, Rathinapriya P, Ramesh M (2016) Effects of cefotaxime, amino acids and carbon source on somatic embryogenesis and plant regeneration in four Indian genotypes of foxtail millet (*Setaria italica* L.). **In Vitro Cellular and Developmental Biology-Plant**. Vol 52, Issue 2, pp 140-153. DOI: 10.1007/s11627-015-9724-7. **IF: 2.723** (USA)
- 130) David RHA, **Cesar SA**, Thirugnanasambantham K, Ignacimuthu, S (2016) Genetic engineering of crop plants for drought tolerance: role of transcription factors. **South Indian Journal of Biological Sciences**. Vol 2, Issue 2, pp 272-286. DOI: 10.22205/sijbs/2016/v2/i2/100317. (Peer Reviewed) **IF: NA** (India).
- 131) Satish L, Rathinapriya P, Rency AS, **Cesar SA**, Pandian S, Rameshkumar R, Ramesh M (2016) Somatic embryogenesis and regeneration using *Gracilaria edulis* and *Padina boergesenii* seaweed liquid extracts and genetic fidelity in finger millet (*Eleusine coracana*). **Journal of Applied Phycology**. Vol 28, Issue 3, pp 2083-2098. doi:10.1007/s10811-016-0977-2. **IF: 3.404** (Netherlands)
- 132) Ramakrishnan M, **Cesar SA**, Duraipandiyar V, Ignacimuthu S (2016) Assessment of genetic diversity, population structure and relationships in Indian and non-Indian genotypes of finger millet (*Eleusine coracana* (L.) Gaertn) using genomic SSR markers. **SpringerPlus**. Vol 5, 120. doi: 10.1186/s40064-015-1626-y. **IF: NA** (Germany).
- 133) Satish L, Rency AS, Rathinapriya P, **Cesar SA**, Pandian S, Rameshkumar R, Rao TB, Balachandran SM, Ramesh M (2016) Influence of plant growth regulators and spermidine on somatic embryogenesis and plant regeneration in four Indian genotypes of finger millet (*Eleusine coracana* (L.) Gaertn). **Plant Cell Tissue and Organ Culture**. Vol 124, Issue 1, pp 15-31. doi:10.1007/s11240-015-0870-8. **IF: 2.726** (Netherlands)
- 134) Satish L, **Cesar SA**, Shilpha J, Rency AS, Rathinapriya P, Ramesh M (2016) Analysis of genetic variation in sorghum (*Sorghum bicolor* (L.) Moench) genotypes with various agronomical traits using SPAR methods. **Gene**. Vol 576, Issue 1, Part 3, pp. 581-585. doi:10.1016/j.gene.2015.10.056. **IF: 3.913** (Netherlands)
- 135) Baker A, **Cesar SA**, Palmer AJ, Paterson J, Qi W, Muench SP, Baldwin SA (2015) Replace, reuse, recycle: Improving the sustainable use of phosphorus by plants. **Journal of**

- Experimental Botany.** Vol 66, Issue 12, pp.3523-3540. doi:10.1093/jxb/erv210 **IF: 7.298 (UK).**
- 136) Ramakrishnan M, **Cesar SA**, Duraipandiyan V, Ignacimuthu S (2015) Using molecular markers to assess the genetic diversity and population structure of finger millet (*Eleusine coracana* (L.) Gaertn.) from various geographical regions. **Genetic Resources and Crop Evolution.** Vol 63, Issue 2, pp 361-376. doi:10.1007/s10722-015-0255-1 **IF: 1.876 (The Netherland)**
- 137) **Cesar SA**, Hodge A, Baker A, Baldwin SA (2014) Phosphate concentration and arbuscular mycorrhizal colonisation influence the growth, yield and expression of twelve PHT1 family phosphate transporters in foxtail millet (*Setaria italica*). **PLoS One.** Vol 9(9):e108459. doi:10.1371/journal.pone.0108459 **IF: 3.752 (USA)**
<https://doi.org/10.1371/journal.pone.0108459>
- 138) Satish L, **Cesar SA**, Shilpha J, Rency AS, Rathinapriya P, Ramesh M (2014) Direct plant regeneration from *in vitro*-derived shoot apical meristems of finger millet (*Eleusine coracana* (L.) Gaertn.). **In Vitro Cellular and Developmental Biology-Plant.** Vol 51, Issue 2, pp 192-200. doi:10.1007/s11627-015-9672-2. **IF: 2.723 (USA)**
- 139) Toppo E, Ramakrishnan M, **Cesar SA**, Sivasankaran K, Premkumar A, Ignacimuthu S (2014) Regeneration from mature scutellum explants of rice variety IR64 (*Oryza sativa* L.) through direct and indirect organogenesis. **Journal of Global Agriculture and Ecology.** Vol 1, Issue 1, pp 1-9. Peer Reviewed. **IF: NA (India)**
- 140) Madhuvanthi C, **Cesar SA**, Kumar KS, Valivittan K, Srinivasan K, Tamilselvi A (2014) Antibacterial, antioxidant and antiproliferative activities of solvent extracts of *Tiliacora acuminata*. **International Journal of Pharmacy and Pharmaceutical Sciences.** Vol 6, Issue 9, 398-403. **IF: NA (India) (Scopus Indexed)**
- 141) Ramakrishnan M, **Cesar SA**, Duraipandiyan V, Ignacimuthu S (2014) Efficient plant regeneration from shoot apex explants of maize (*Zea mays*) and analysis of genetic fidelity of regenerated plants by ISSR markers. **Plant Cell Tissue and Organ Culture.** Vol 119, Issue 1, pp 183-196. doi:10.5897/AJB2018.16562. **IF: 2.726 (Netherlands)**
- 142) Ramakrishnan M, **Cesar SA**, Duraipandiyan V, Daniel MA, Ignacimuthu S (2013) Efficacious somatic embryogenesis and fertile plant recovery from shoot apex explants of onion (*Allium cepa* L.). **In Vitro Cellular and Developmental Biology-Plant.** Vol 49, Issue 3, pp 285-293. doi:10.1007/s11627-013-9510-3. **IF: 2.723 (USA)**
- 143) Ramakrishnan M, Shanthi A, **Cesar SA**, Duraipandiyan V, Ignacimuthu S (2013) Genetic diversity, origination and extinction analysis in *Casuarina equisetifolia* using RAPD markers. **Asian Journal of Plant Science and Research.** Vol 3, Issue 2, pp 81-87. **IF: NA (Peer Reviewed) (India)**

- 144) **Cesar SA**, Ayyanar M, Ignacimuthu S (2013) An improved micropropagation protocol for *Plumbago zeylanica* L. an important medicinal plant. *Asian Journal of Biological Sciences*. Vol 6, issue 4, pp 214-220. doi:10.3923/ajbs.2013.214.220. **IF: NA** (Peer Reviewed) **(India)**.
- 145) **Cesar SA**, Ignacimuthu S (2012) Genetic engineering of crop plants for fungal resistance: role of antifungal genes. *Biotechnology Letters*. Vol 34, Issue 6, pp 995-1002. doi:10.1007/s10529-012-0871-1. **IF: 2.716** **(Netherlands)**
- 146) Ignacimuthu S, **Cesar SA** (2012) Development of transgenic finger millet (*Eleusine coracana* (L.) Gaertn.) resistant to leaf blast disease. *Journal of Biosciences*. Vol 37, Issue 1, pp 1-13. doi:10.1007/s12038-011-9178-y. **IF: 2.795** **(India)** **(Cover page image article)**
- 147) **Cesar SA**, Ignacimuthu S (2011) Applications of Biotechnology and Biochemical engineering for the improvement of Jatropha and Biodiesel: A review. *Renewable and Sustainable Energy Reviews*. Vol 15, Issue 9, pp 5176-5185. doi:10.1016/j.rser.2011.07.039. **IF: 16.799** **(USA)**
- 148) **Cesar SA**, Ignacimuthu S (2011) *Agrobacterium*-mediated transformation of finger millet (*Eleusine coracana* (L.) Gaertn.) using shoot apex explants. *Plant Cell Reports*. Vol 30, Issue 9, pp 1759-1770. doi:10.1007/s00299-011-1084-0 **IF: 4.964** **(Germany)**
- 149) **Cesar SA**, Ignacimuthu S (2010) Effects of cytokinins, carbohydrates and amino acids on induction and maturation of somatic embryos in kodo millet (*Paspalum scorbiculatum* Linn.). *Plant Cell Tissue and Organ Culture*. Vol 102, Issue 2, pp 153-162. doi:10.1007/s11627-015-9724-7. **IF: 2.726** **(Netherlands)**
- 150) **Cesar SA**, Maxwell SL, Prasad KB, Karthigan M, Ignacimuthu S (2010) Highly efficient shoot regeneration of *Bacopa monnieri* (L.) using a two-stage culture procedure and assessment of genetic integrity of micropropagated plants by RAPD. *Acta Physiologiae Plantarum*. Vol 32, Issue 3, pp 443-452. doi:10.1007/s11738-009-0419-8. **IF: 2.736** **(Poland)**
- 151) **Cesar SA**, Ignacimuthu S (2009) Genetic engineering of millets: current status and future prospects. *Biotechnology Letters*. Vol 31, Issue 6, pp 779-788. doi:10.1007/s10529-009-9933-4. **IF: 2.716** **(Netherlands)**
- 152) **Cesar SA**, Ignacimuthu S (2008) Efficient somatic embryogenesis and plant regeneration from shoot apex explants of different Indian genotypes of finger millet (*Eleusine coracana* (L.) Gaertn.). *In Vitro Cellular and Developmental Biology-Plant*. Vol 44, Issue 5, pp 427-435. doi:10.1007/s11627-008-9153-y **IF: 2.723** **(USA)**
- 153) **Cesar SA**, Natesan R (2006) Study of inhibitory effect of cowpea proteinase inhibitors against gut proteinase enzyme and larval growth of *Nephllopteryx 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.

