



International
Symposium on
Cocoa
Research

ISCR 2022

POSTERS SESSION I

COCOA CULTIVATION: INNOVATIVE APPROACHES AND PRACTICES FOR SUSTAINABLE PRODUCTION

1. **Mr. Rayanne França Pereira**, *Genetics resources to study *Moniliophthora perniciosa**, Universidade Estadual de Santa Cruz – UESC
2. **Mr. Alexander Altamirano Salazar**, *Determination of hormone efficiency for propagation of cocoa (*Theobroma cacao* L.) by twigs in microtunnels*, Asociación Peruana de Productores de Cacao – APPCACAO
3. **Mrs. Mar Asunción Gárate Navarro**, *Optimization of somatic embryogenesis expression of high-value cocoa clones in the region of San Martín - Peru*, Asociación Peruana de Productores de Cacao – APPCACAO
4. **Dr. Fatima Cerqueira Alvim**, *Molecular chaperone modulation in cocoa leads to plant resistance to *Moniliophthora perniciosa**, Universidade Estadual de Santa Cruz – UESC.
5. **Ms. Leidy Paola Delgadillo**, *Transcriptomic (RNA-seq) analysis of genes responsive to cadmium stress in *Theobroma cacao**, Colombian Corporation Agriculture Research
6. **Prof. Alejandro Caro-Quintero**, *Exploring the use of endophytes to improve grafting of *T. cacao* regional material with fine flavor potential*, Departamento de Biología, Facultad de Ciencias, Universidad Nacional de Colombia
7. **Mrs. Mónica Juliana Chavarro**, *Participatory methodologies for sustainable technological innovation in cocoa systems: at the Colombian southwest region*, Bioversity-CIAT
8. **Mr. Martin Notaro**, *Innovative co-designed agro-ecological transition pathways that vary according to the historical loops of cocoa production areas*, CIRAD-UMR ABSys
9. **Dr. Siela Maximova**, *Advances of Functional Genomics of *Theobroma cacao*'s defense against *Phytophthora palmivora**, Penn State University



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10. **Mr. Rolando Cerda**, *Evaluation of the resistance against Frosty Pod Rot and Black Pod Rot of clones preserved in the International Cacao Collection of CATIE*, CATIE (Centro Agronómico Tropical de Investigación y Enseñanza)
11. **Mr. Juan Pablo Rojas Bustos**, *Real-time Image detection of cocoa pods in natural environment using deep learning algorithms*, CIRAD, UMR AGAP
12. **Mr. Sardou Jean-Denis** *Regeneration of the cocoa agroforestry system: an innovative approach for small family farms in northern Haiti*, Agronomes et Vétérinaires Sans Frontières (AVSF)
13. **Dr. Régis Babin**, *Infestation dynamics of mealybug vectors of the Cocoa swollen shoot virus in young cocoa plots surrounded by barrier crops in Soubré (South-West of Côte d'Ivoire)*, CIRAD
14. **Ms. Ohôh Bernadette Assoh**, *In vitro and in vivo screening and selection of microorganisms from five composts with antagonistic effects on Phytophthora spp., the causal agent of brown rot of cocoa pods (Theobroma cacao L.) in Côte d'Ivoire*, Centre National de Recherche Agronomique
15. **Mr. Allan Mata-Quirós**, *Promissory cacao clones with high yield potential, disease tolerance and quality to increase production in Latin America*, CATIE (Centro Agronómico Tropical de Investigación y Enseñanza)
16. **Dr. Katharina Krumbiegel**, *Sustainable Cocoa Production – Current Practices in Côte d'Ivoire and Ghana*, Joint Research Centre, European Commission
17. **Dr. Zokou Franck Oro**, *Do abiotic soil factors influence the spread of Swollen Shoot disease in the Soubré area - South-West Côte d'Ivoire?*, Université Peleforo Gon Coulibaly (UPGC)
18. **Dr. Régis Babin**, *Effect of temperature on the Cacao swollen shoot virus (CSSV, Badnavirus) vection by the mealybug Planococcus citri to cocoa seedlings in the laboratory*, CIRAD
19. **Dr. Adalbert Adibimé Onana**, *Influence of soil physico-chemical properties and cocoa growth characteristics on yield components*, International Institute of Tropical Agriculture (IITA)



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20. **Dr. Francois Olivier Ruf**, *The “bean tegument” innovation system: bringing back to smallholders’ cocoa farms the fertility lost or transferred to agro-industry.*, CIRAD
21. **Ms. Giulia Bongiorno**, *Monitoring framework of ecological performance indicators for soil health and climate smartness in cacao production systems*, Wageningen University and Research
22. **Dr. Jorge Ronny Díaz-Valderrama**, *The morphological and genetic diversity of the cacao pathogen *Moniliophthora perniciosa* in the Peruvian Upper Amazon*, Universidad Nacional Toribio Rodríguez de Mendoza de Amazonas
23. **Dr. Anna Laven**, *Changing gender norms for sustainable cocoa production*, KIT Royal Tropical Institute / Mars Wrigley
24. **Ms. Selma van der Haar**, *Cocoa rehabilitation in Western-Ghana: Farmers’ self-selection and short-term livelihood effects*, Centre for International Forestry Research (CIFOR)
25. **Ms. Marine Marchetti**, *Improving cocoa bean quality in the supply chain by mitigating free fatty acid accumulation in beans through improved farm practices*, ofi, Outspan Ivoire SA
26. **Dr. Laura Armengot**, *Locally selected cacao cultivars perform better than international cultivars in both agroforests and monocultures*, FiBL
27. **Mr. Rich Kofi Kofituo**, *Towards a Sustainable Cocoa Production: Drivers of Adoption of Farm Management Practices among Smallholder Cocoa Farmers in West and Central Africa*, International Institute of Tropical Agriculture (IITA)
28. **Mr. Urcil Papito Kenfack Essougong**, *Using decision supports tools to foster good agricultural practices among cocoa farmers, what is needed for success? A case study from Cameroon*, Plant Production Systems Group, Wageningen University and Research
29. **Dr. Xavier Argout**, *Pangenome analysis of *Theobroma cacao* reveals new genes and provides new insights into the diversity of the species.*, CIRAD
30. **Dr. Olivier Deheuvels**, *Designing cocoa-based agroforestry systems based on farmers’ perception of cultivated biodiversity*, CIRAD-UMR ABSys



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31. **Dr. Boguinard Sahin Honorine Brigitte Guiraud**, *Isolates of Cocoa Swollen shoot virus from tolerant/resistant cocoa trees (Theobroma cacao L.) collected in cocoa orchards in Côte d'Ivoire show high genetic diversity*, Centre National de Recherche Agronomique (CNRA), Programme cacao, Opération Amélioration génétique
32. **Dr. Ruth Vanderschueren**, *Cadmium uptake and translocation in Theobroma cacao L.: A ¹⁰⁸Cd stable isotope pulse chase experiment*, KU Leuven
33. **Dr. Jean-Philippe Marelli**, *Development of an in-field detection kit for Cocoa Swollen Shoot Disease in Côte d'Ivoire and Ghana*, Mars Wrigley
34. **Mr. Diannefair Duarte Hernández**, *Pollination, a matter beyond the visible*, Federación Nacional de Cacaoteros
35. **Dr. Franziska Ollendorf**, *Different households – different challenges? Understanding the impacts of cocoa producers' household characteristics on their ability to apply sustainable production techniques*, Leibniz Centre for Agricultural Landscape Research (ZALF)
36. **Mr. Samuel Alfred Brülisauer**, *Beyond Certification: A Typology of Instruments of Private and Community-Based Sustainability Governance in Agri-Food Value Chains*, Centre for Development and Environment (CDE), University of Bern; Institute of Geography, University of Bern
37. **Mr. Nana Okyir Baidoo**, *Effects of Cocoa Policies in Ghana on the Achievement of the Sustainable Development Goals (SDGs) in The Cocoa Sector*, University of Ghana
38. **Dr. Andrew James Daymond**, *Procedures for Safe Movement of Cocoa Germplasm*, University of Reading
39. **Dr. Mariela E. Leandro-Muñoz**, *Determining the risk of cacao pod diseases and yield losses through survival analysis and microclimate*, Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)
40. **Dr. Kayode Olufemi Ayegboyin**, *Genotypic responses of cocoa (Theobroma cacao L.) under field establishment stress in Nigeria*, Cocoa Research Institute of Nigeria
41. **Ms. Leidy Paola Delgadillo**, *A dual transcriptomic in the Phytophthora palmivora and Theobroma cacao interaction*, Colombian Corporation Agricultura Research-AGROSAVIA



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42. **Mr. Timothée Faurie**, *Development of the DEXiCacao multi-criteria decision support tool adapted to the Vietnamese cocoa production context*, Marou Faiseurs de Chocolat
43. **Dr. Pierre Walet N'Guessan**, *Inventory of ant species associated with mealybugs, vectors of cocoa swollen shoot virus at the CNRA-Divo research station, Côte d'Ivoire*, Centre National de Recherche Agronomique (CNRA)
44. **Mr. Thomas Wibaux**, *Is morphological distinction of cacao trees still relevant in seedling-based hybrid populations? Study of the links between morphological descriptors, growth and yield.*, CIRAD-UMR ABSys / CEA-CCBAD
45. **Dr. Norbert N'Dri Kouame**, *The insect Pseudothraupis devastans Distant (Hemiptera: Coreidae), a new threat to cocoa production in the Haut-Sassandra region of Côte d'Ivoire*, Centre National de Recherche Agronomique (CNRA)
46. **Mr. Marike Sassen**, *Understanding the links between cocoa management, productivity, biodiversity and ecosystem services in West Africa*, Wageningen University and Research
47. **Mr. Thomas Wibaux**, *Farmer's perception of development opportunities of cacao agroforestry in growing cocoa-producing districts of Uganda*, CIRAD-UMR ABSys
48. **Dr. Inago Caudou Trebissou**, *The level of competition between cocoa trees depends on the average diameter of the trees and their genetic origin*, Centre National de Recherche Agronomique (CNRA)
49. **Dr. Emmanuelle Muller**, *Identification and Distribution of Novel Badnaviral Sequences Integrated in the Genome of Cacao (Theobroma cacao)*, CIRAD/AGAP Institut
50. **Mr. Patrick Henri François Jagoret**, *Cocoa4Future: A research in partnership project contributing to the agroecological and organizational transition of cocoa production in West Africa*, CIRAD-UMR ABSys
51. **Mr. Karol Brighton Rubio Rojas**, *Somatic embryogenesis in native cacao from Amazonas using Thidiazuron*, Universidad Nacional Toribio Rodriguez de Mendoza de Amazonas
52. **Ms. Ambra Tosto**, *The Effect of Pruning on Light capture, Flushing and Pod production in adult cocoa plants*, Wageningen University and Research
53. **Ms. Ambra Tosto**, *Developing a functional-structural plant model for cocoa trees to explore pruning-shade interactions*, Wageningen University and Research



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54. **Mrs. Nawalyath Soule Adam**, *Performance of agricultural innovation support services : the case of cocoa agroforestry in savannah in Cameroon*, CIRAD
55. **Dr. Balé Françoise Gogbe-Dibi**, *Identification of new host plants of swollen shoot virus other than cocoa in Côte d'Ivoire*, Centre National de Recherche Agronomique (CNRA)
56. **Dr. Ayu Kartini Parawansa**, *An investigation of species associated with stem cancer of cacao in Sulawesi under climate change*, Muslim University Of Indonesia
57. **Mr. M'Bo Kacou Antoine Alban**, *Screening of markers for drought tolerance in cocoa hybrids*, WASCAL/CEACCBAD University Felix Houphouet-Boigny (UFHB)
58. **Dr. Christian Gael Nembot Fomba**, *On the use of Mathematical Modeling to improve control strategies in the cocoa and black pod disease pathosystem*, University of Yaounde
59. **Mr. Jean Paul Nlend Nkott**, *Partnership for Delivery: A sustainable pathway to generate and transfer knowledge from research to cocoa farmers*, International Institute for Tropical Agriculture - IITA
60. **Ms. Marie Ella Ahou Gbla**, *Promoting gender equality and social sustainability in cocoa-producing communities: an analysis of best-practices in Cote d'Ivoire*, Institut National Polytechnique Félix Houphouet Boigny
61. **Mr. Simeon Human**, *Transportation inefficiencies in the cocoa value chain in Ivory Coast: Is sustainability possible?*, Bern University of Applied Sciences, School of Agricultural, Forest and Food Sciences
62. **Mr. Pierre Germain Ntsoli II**, *Influence of mycorrhizal fungi, cocoa pod husk biochar and pig manure on the growth and health status of cocoa plants (Theobroma cacao L.) during nursery stage*, Faculty of Agronomy and Agricultural Sciences, University of Dschang
63. **Ms. Andréanne Lavoie**, *Recommendations for the conservation of cacao intraspecific diversity based on a typology of production systems in Cusco, Junín and Piura, Peru*, Université Laval
64. **Dr. Justina Oluyemisi Lawal**, *Welfare dynamics: sustainable rise or fall among cocoa farming households in Southwest, Nigeria*, Cocoa Research Institute of Nigeria (CRIN)



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65. **Mr. M'Bo Kacou Antoine Alban**, *Adaptation to climate variability: farmers' practices and perspectives in cocoa farming in Côte d'Ivoire*, ICRAF
66. **Dr. Paul Ehimare Aikpokpodion**, *Geospatial distribution of heavy metals in Cocoa Plantations across Nigeria*, Cocoa Research Institute of Nigeria
67. **Ms. Nur Sholecha Ruseani**, *Effects of Nitrogen, Phosphorus and Potassium Fertilizers on Mature Cocoa in Indonesia*, Laboratory of Tropical and Subtropical Crops and Ethnobotany, Department of Plant and Crops, Faculty of Bioscience Engineering, Ghent University
68. **Ms. Viviana Ceccarelli**, *Conservation and use of cacao genetic resources by gene banks and nurseries in six Latin American countries*, Bioversity International
69. **Ms. Marine Jouvin**, *Child labor and measurement errors : social desirability bias among Ivorian cocoa farmers*, University of Bordeaux, France
70. **Urcil Papito Kenfack Essougong**, *Determinants of the adoption of good cocoa farming practices and opportunities for increasing their uptake in the Centre region of Cameroon*, Wageningen University and Research
71. **Dr. Kouamé Casimir GBOKO**, *Analyzing influencing factors and incentives for producers' compliance with certification environmental requirements in cacao sector in Côte d'Ivoire*, Institut National Polytechnique Felix Houphouet-Boigny (INP-HB)