

CURRICULUM VITAE

December 3, 2023

NAMES:

Enoch Gbenato Achigan-Dako (PhD), Agronomy – Genetics and Plant Breeding

TITLE, RESPONSIBILITY, AND ACADEMIC AFFILIATION

Full Professor

Head, Department of Plant Science, Faculty of Agronomic Sciences, University of Abomey-Calavi
Head, Genetics, Biotechnology, and Seed Sciences Unit, (GBioS/PAGEV/FSA), University of Abomey-Calavi, Republic of Benin.

Vice-President, African Plant Breeders Association (APBA)

Former Secretary General (two terms), African Plant Breeders Association (APBA)

Coordinator of the Mastercard Foundation Scholars Program of the University of Abomey-Calavi.

Expert of the High Council for Evaluation of Research and Higher Education (Hcéres), France.

International Consultant (Food and Agriculture Organization, FAO), Index number 3069455

Member of Scientific Council of the National Agricultural Research of Benin

Projects coordinator / affiliate (Biovalor, Mobreed, Genes, Agro-Eco, TAERA-DESIRA, Sweet Potato, TAVI, CGT-BMZ, SAFE-PGR/BOLD-CROP TRUST, Genes II, Orphan, e-anarcade, PATH).

I would describe my primary expertise/experience/super-powers as:

- Scientist, agronomist and plant breeder, with expertise in quantitative genetics and genomics
- Expert on minor /underutilized plants of tropical Africa
- Experienced in business development in low and middle income countries.

CONTACT DETAILS:

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EDUCATION / QUALIFICATION

2005 – 2008: Doctor Agriculturarum, Option: Genetics, Martin-Luther University, Halle-Wittenberg, Faculty of Natural Science III – Agriculture and Nutrition, Germany.

2000 – 2002: Master of Sciences, Genetics and Plant Breeding, UFR Biosciences, University of Cocody, Ivory Coast.

1993 – 1999: Agronomy Engineer, Natural Resources Management / Crops protection, Faculty of Agronomic Sciences (FSA), University of Abomey-Calavi (UAC), Republic of Benin.

MOST RECENT SPECIFIC TRAININGS

2015 – 2016: African Plant Breeding Academy (Class 2).

Feb 2014: In vitro International Training – National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi, India.

WORK EXPERIENCES

2023 - : Appointed Head of the Department of Plant Science, Faculty of Agronomic Sciences, University of Abomey-Calavi (Republic of Benin). Responsibilities include: overall management of the faculty, administrative management reporting directly to the Dean of the Faculty and working collaboratively with the faculty members as well as with colleagues across the campus, nation and world. I have authority, responsibility and accountability for leading and managing all the department activities including but not limited to: student education, research, cooperative extension, employee professional development, recruitment, workload allocation, evaluation, budgets and finance, philanthropy and relationships with public and private partner institutions. I have experience in, appreciation for, and credibility across the breadth of plant-related sciences, including laboratory research, seed science and variety release, precision agriculture and commercial production, pathogens,

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contemporary science and engineering, and national and global policy and political issues. My working style: inclusive and flexibility for achieving organizational progress.

2010 – Present: Full Professor, Faculty of Agronomic Sciences, University of Abomey-Calavi, Republic of Benin. Functions: Lectures & seminars, Supervision of undergraduate and graduate students, development and implementation of research projects, field experiments and surveys.

Teaching: Horticulture, TPV 7111 (Climate change and plant genetic resources), GAP 7102 (Introduction to Plant Breeding) GAP7102 (Analysis of genetic diversity), RPG 7113 (Plant genetic resources) GBI 7113 (Statistical genetics), GBI 7113 (Epigenetics), (Quantitative genetics), STP 7113 (Internship), STG 7124 (Dissertation Style guide), IBST (Modern approaches in Plant Breeding).

2014 - Present: Founder and Head of the Genetics, Biotechnology, and Seed Sciences Unit, Senior Curator of the genebank, Faculty of Agricultural Sciences (University of Abomey-Calavi), Republic of Benin.

2017 – 2023: National coordinator of the Mastercard Foundation scholarship program: Empowering young academics leadership and entrepreneurial abilities in Benin. Funding: The Mastercard Foundation.

2022-2024: Institutional coordinator of the project “Safeguarding Plant Genetic Resources of Benin for a sustainable future use (Safe-PGR)”.

2022-2026: South Coordinator of the Biovalor project: BIOVALOR: Strengthening the skills approach and entrepreneurial culture in higher agronomic training: levers for professional integration and the development of the bioeconomy in Benin.

2020-2023: Institutional coordinator of the project Development of intelligent innovation through research in agriculture (DeSIRA)”. Project: Supporting the Agro-Ecological Transition through Agricultural Research (TAERA).

2019-2022: Institutional coordinator of the project “Improvement of orange-fleshed sweet potato value chains for food and nutritional security in Benin, Niger and Nigeria”.

2021-2023: Institutional coordinator of the project “Choose, Grow, Thrive: Using citizen science in expanding West Africa’s food basket with African vegetables to tackle malnutrition (BMZ - CGT).”

2021-2023: Institutional coordinator of the “Taiwan Africa Vegetable Initiative (TAVI)” project

2019-2024: South Coordinator: Amplification of the agro-ecological transition for profitable and sustainable cereal and market gardening production systems in the territories of Atacora in Benin and Houet in Burkina Faso (AGRO-ECO).

2017 – 2021: National coordinator of the GENES program: Mobility for plant genomics scholars to accelerate climate-smart adaptation options and food security in Africa. European Union Funds.

2016 – 2020: African Coordinator of the Mobreed program: Mobility for plant genomics scholars to accelerate climate-smart adaptation options and food security in Africa. European Union Funds.

2015 – 2018: Responsible for WorkPackage ‘Agronomic practices’ in the DAPIS Project (Designing appropriate agronomic and processing practices for pineapple supply chains in Benin) (2015-2018). Funding ARF/WOTRO/Netherlands.

2013 – 2016: Co-Manager of the Project: ‘Evaluation and genetic characterization of pineapple germplasm for the production of healthy, efficient and economically profitable plants in Benin’. Funding: West African Agricultural Productivity Program (WAAPP).

2014 – 2017: Local coordinator of the project “Cleonomics: Utilizing the genome of the vegetable species *Cleome gynandra* for the development of improved cultivars for the West and East African markets. Funding: ARF/WOTRO/Netherlands

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2013-2017: Head of International Cooperation Department, University of Abomey-Calavi. Manager of the Belgian ARES-CCD Cooperation Program.

2009-2012: Africa Director of PROTA (Plant Resources of Tropical Africa), Nairobi, Kenya. Associate editor, manager of the www.prota4u.org database which brings together information on more than 7,000 plant species. Scientific editor, PROTA (Plant Resources of Tropical Africa), Nairobi, Kenya. Functions: articles writing and scientific editing of articles on plant resources of relevant commodity groups such as cereals and pulses, fibres, and medicinal plants.

2005-2009: Research assistant, Faculty of Agricultural Sciences (University of Abomey Calavi, Benin). Coordinator of the “Promotion of food Cucurbitaceae from Benin” project, partner of the “Indigenous Vegetables” consortium, member of the Darwin Initiative project “Promotion of traditional vegetables from Benin and Mali”.

October 2005 – 2010: Research associate, PhD student, The Leibniz-Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany.

2001 –2004: Scientific assistant; Assistant to the Regional Director; Bioversity International (ex. IPGRI), West and Central Africa, Cotonou, Republic of Benin. Co-manager of the program “Valorisation of plant genetic resources in sub-Saharan Africa”. Member of the GRENEWECA / CORAF Network.

1999-2001: Research Assistant, Genebank curator at the National Institute of Agricultural Research of Benin (INRAB) CRA-Sud, Niaouli.

PROJECTS, GRANTS, FELLOWSHIPS,

2022 Global Crop Diversity Trust (Crop Trust), Food and Agriculture Organization of the UN (FAO) and Bioversity International. Project : BOLD / Safe-PGR . “Safeguarding Plant Genetic Resources of Benin for a sustainable future use”. Duration 2 ans. Budget : USD 80,000.

2021 Partenariats avec l’Enseignement Supérieur Africain. BIOVALOR. Renforcement de la démarche compétences et de la culture entrepreneuriale dans la formation supérieure agronomique : leviers pour l’insertion professionnelle et le développement de la bioéconomie au Bénin. Partenaires: Université d’Abomey-Calavi, Université de Lorraine, Institut Agro – MSA, Centre de coopération internationale en recherche agronomique pour le développement (CIRAD). Duration: 4 ans. Budget: 3 100 000 Euro.

2021 BMZ and WorldVeg Grant. Project : Choose, Grow, Thrive: Using citizen science in expanding West Africa’s food basket with African vegetables to tackle malnutrition (BMZ - CGT). Partenaires: Institut Polytechnique Rurale, Faculté des Sciences Agronomiques, Université d’Abomey-Calavi, World Vegetable Center Tanzania, Bioversity International, SeedLinked. Duration: 3 ans. Budget USD 123,508.

2021 Grant of the Taiwan Council of Agriculture. Project : Taiwan Africa Vegetable Initiative (TAVI). Duration 3 ans. Montant: USD 150,000.

2020 TETFund National Research Fund Grant – Project: “Valorisation of genetic resources in African orphan crops for food and nutrition security of rural populations in Nigeria”, ref: TETFund/DR&D/CE/NRF/STI/15/VOL 1 of 3rd January 2020.

2020 European Union Grant. Project: Development Smart Innovation through Research in Agriculture (DeSIRA)’. Project: Accompagnement de la Transition Agro-Ecologique par la Recherche Agricole (TAERA). Partners: Université Catholique de Louvain, Université d’Abomey Calavi, Université de Parakou et Institut National des Recherches Agricoles du Bénin, membres du Système National de Recherche Agricole (SNRA). Fédération des Unions de Producteurs du Bénin (FUPRO), Conseil de Concertation des Riziculteurs (CCRB). Duration: 5 years. Amount: Euro 1,500,000.

2019 African Union Research Grant. Project. Improved Orange Fleshed Sweet Potato value chains for food and Nutrition security in Benin, Niger and Nigeria. Partners: University of Parakou (Benin), University of

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Abomey Calavi (Benin), Ebony State University Abakaliki (Nigeria), National Institute of Agronomic Research of Niger (Niger). Duration 36 months. Budget: USD 989,260.

2018 ARES (Belgian Government) Grant. Amplification de la transition agro-écologique pour des systèmes de productions céréalières et maraichères profitables et durables dans les territoires de l'Atacora au Bénin et du Houet au Burkina Faso (AGRO-ECO). Partners: Université catholique de Louvain (UCL), Université Abomey-Calavi (UAC), Université de Liège (ULiège), Centre National de la Recherche Scientifique et technologique (CNRST), Université Nazi Boni (UNB), Louvain Coopération, Aide au Développement Gembloux (ADG), Autre Terre, Confédération Paysanne du Faso (CPF), Fédération des Unions de Producteurs (FUPRO). Amount Euro 499,968.57.

2018 Seeding Labs. Laboratory instrumentation Awards Winners, Boston, Massachusetts, USA. Amount USD 120,000.

2017 European Commission (EACEA) Grant, Intra-Africa Mobility Scheme MoBreed. Mobility for plant genomics scholars to accelerate climate-smart adaptation options and food security in Africa. Consortium members: Ebonyi State University in Nigeria, University of Abomey-Calavi in Benin, Jimma University in Ethiopia, University of Yaounde 1 in Cameroon, Wageningen University in the Netherlands. Associate partners include the University of KwaZulu Natal (South Africa), BecA-ILRI (Kenya), Montpellier SupAgro, the Centre for International Cooperation in Agricultural Research for Development CIRAD, African Plant Breeding Academy (UC Davis), Plant Breeding E-learning Africa (Iowa State University). Amount: Euro 1,399,800.

2016 The Mastercard Foundation Scholars Program. Project: Empowering young academics leadership and entrepreneurial abilities in Benin. Amount: USD 6,216,495.

2016 European Commission (EACEA) Grant. Intra-Africa Mobility Scheme GENES. Project: Enhancing training and research mobility for novel crops breeding in Africa. Consortium members: University of Abomey-Calavi in Benin, Coordinating institution, University of KwaZulu-Natal in South Africa, University of Namibia in Namibia, Jimma University in Ethiopia, Ebonyi State University in Nigeria, Montpellier SupAgro in France. Amount: Euro 1,453,000.

2014 NWO-WOTRO Science for Global Development. Project: Utilizing the genome of the vegetable species *Cleome gynandra* for the development of improved cultivars for the West and East African markets. Consortium members: NGO Hortitechs Development, The Faculty of Agronomic Sciences, University of Abomey-Calavi, The KENRIK, Centre for Biodiversity, National Museums of Kenya, The Biosystematics Group, Wageningen University, The African Orphan Crops Consortium, The World Vegetable Center. Amount: EURO 274 000.

2014 West Africa Agricultural Productivity Programme (PPAAO/WAAPP). Project 'Improving the production and quality of watermelon (*Citrullus lanatus*) in Benin'. Amount: USD 141 000.

2013 West Africa Agricultural Productivity Programme (PPAAO/WAAPP). Project 'Improving pineapple quality and productivity in Benin'. Amount: USD 60 000.

2009 Second grant (C/3709-2) from the International Foundation for Science (IFS) for the project 'A phenetic analysis of variations in *Citrullus lanatus* from Africa, Asia and America including egusi cultivars from West Africa and the wild relative *Citrullus colocynthis*'. Amount USD 11 900.

2007 Grant for collecting expedition on Cucurbitaceae in Benin, Ghana, Guinea, Mali, Burkina Faso, Niger, Togo, Senegal (West Africa). Funding of Deutsche Forschungsgemeinschaft (DFG), Germany. Amount: EURO 10 000.

2006 Grant for complementary collecting expedition on Cucurbitaceae in Ghana, Mali (West Africa). Fundings of Gatersleben Association for the Promotion of Science, Germany. EURO 10 000.

2004 First Grant of the International Foundation for Science (IFS), Sweden to investigate on "Conservation of the genetic diversity of local cucurbit crops to improve farmers' welfare in Benin". USD 10 500.

2004 Funding of Deutscher Akademischer Austausch Dienst (DAAD), Germany for PhD study at the University of Halle-Wittenberg, Germany.

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2003 Grant of GTZ/AGRAN/INRAB to carry out the project ‘‘Assessment of genetic diversity of *Vigna subterranea* (bambara groundnut) and *Macrotyloma geocarpum* (dohi) in Benin’’.

2002 Grant of GTZ/AGRAN/INRAB to conduct the project ‘‘Collecting and farmers’ characterisation of bambara groundnut (*Vigna subterranea*) and ‘dohi’ (*Macrotyloma geocarpum*) in Central Benin’’.

2000 Scholarship of the African Development Bank (AfDB) for MSc studies at the University of Cocody (Ivory Coast).

2000 Award of the United Nations Universities/Institute of Natural Resources of Africa (UNU/INRA) to participate in the International Training in Plant Tissue Culture at Legon University, Accra, Ghana.

1999 Trainee of Darwin Initiative (UK) International courses on ‘‘In situ conservation of plant genetic resources’’, organized by IPGRI, FAO, University of Birmingham, UNEP and IRAD at Limbé, Cameroon.

PRIZES, AWARDS AND DISTINCTIONS

2022 Winner of the First Innovation Prize (XOF 1,000,000) of the University of Abomey-Calavi (Dec 2022) during the First Week of Science and Innovation. University of Abomey-Calavi, Republic of Benin.

2008 Vavilov-Frankel Fellowship Awards. Pioneer Hi-Bred International Inc., Bioversity International. Amount: USD 20 000.

2008 Second Prize of the best student presentation at the International Conference of Systematics organized by Gesellschaft für Biologische Systematik, 7-11 April 2008, Göttingen, Germany.

2005 Third Prize of the best presentation at the First Students’ Conference organized by the Leibniz-Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany.

CONTRIBUTION TO NATIONAL ECONOMIC GROWTH

November 2016: Creation of the StartUp Homeland Tastes, that produces herbal infusions with nutritious and medicinal herbs. Four of his infusions are already available on the Beninese, Senegalese and Gabonese market at very affordable prices. These are combinations of: Lemongrass-Moringa, Mint-Moringa, Mint Bissap and Flavored Ginger. Homeland Tastes is winner of the innovation awards organized by SenS Benin in 2018 and the best business idea organized by the African Development Bank in 2018.

January 2017: Creation of the StartUp **Seed Services** specialized in the production, distribution of quality seeds of horticultural crops and technical assistance to farmers. Seed Service provide high quality seeds of vegetable and fruit crop species especially local ones. Seed Services is winner of the best promising startUp contest organized by the African Development Bank in 2018.

April 2017: Creation of the StartUp **BioLife** specialized in the production of biological inputs including compost and bio-pesticides for intensive agro-ecological production (especially in vegetable and fruit production). BioLife promotes the use of appropriate technology and locally available resources which has high nutrients values to produce highly competitive quality organic inputs available in real time for producers. BioLife is a winner of the Scholars Entrepreneurship Funds 2019.

September 2017: Creation of the StartUp **Benin Cereals**, a food processing StartUp specializing in transformation of indigenous cereal into various end product for human consumption. Targeted cereal targeted include Fonio, Sorghum and Millet. These cereals are processed in different variants and fortified product such as: flour, traditional yogurt known as Dêguê; couscous, and flour for children porridge.

January 2018: Creation of the StartUp **Grow** to provide hybrid seeds and pure lines of fruit vegetables (tomatoes, peppers, eggplant), bulbs (onions), and tubers (potatoes). Grow currently provides to producers a unique make of tomato seed « **TOMSeed** » with high yield. From local cultivars (Tounvi, Kêkêfo, Akikon, Athougho, Gbogan), we have developed and differentiated tomato seeds that are especially suitable for cooking and processing, and tomato seeds that can withstand drought and other environmental constraints.

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April 2018: Creation of the StartUp **Delix** specialized in the production of sugar-free beverages and the promotion of miracle fruit (*Synsepalum dulcificum*), a species with high nutritional and therapeutic potentials through the production and marketing of fresh fruit, lemonade, juice, pastilles and ice cream.

June 2018: Creation of the StartUp **Fruits Farm** to promote indigenous fruits.

KEY RECENT MEETINGS AND CONFERENCES

November 14, 2023. Participant. Global Crop Diversity Summit 2023, Berlin, Germany.

August 7-9, 2023. External advisor. FRESH Bi-Annual Workshop and External Advisory Group Meeting IFPRI headquarters, Washington, DC

June 26-29, 2023. Speaker. DivSeek International and the Crop Trust are partnering to co-host a brain-storming workshop on “Plant digital commons: conservation to consumption”, to be held at Cornell University, USA

September 12, 2023. Keynote speaker. Science Week. Strengthening vegetable food systems in Benin, Mali and Burkina Faso. World Vegetable Center, IITA Campus, Abomey-Calavi, Rep. of Benin.

November 3, 2023. Panelist. World Vegetable Center Golden Jubilee Celebration and Inauguration of the New Research Building. World Vegetable Center (WorldVeg) Headquarters, Taiwan.

October 23, 2023. Moderator. The African Plant Breeders Association Conference 3rd Edition Theme: Leveraging Genetic Innovation for Resilient African Food Systems in the wake of Global Shocks, Mohammed VI Polytechnic University (UM6P), October 23rd – 26th, 2023 | Benguerir, Morocco

October 2, 2018: Panelist. Committee on Agriculture (COAG), Side Event: Making Orphan Crops More Nutritious to Nourish African Diets: Enhancing Food and Income Security. FAO Headquarters-Sheikh Zayed Centre.

September, 25-28th, 2018. Keynote speaker. EVOLTREE Annual Meeting, European Forest Institute 2018 Annual Conference. Research that matters: applying genomics to sustainable development Alghero, Sardinia, 25th to 28th September.

September 17-20th 2018. Speaker. 10th international conference and workshops on quality assurance in higher education in Africa. 2018 meeting of the African quality assurance network (AFRIQAN) and Symposium of rectors, vice-chancellors and presidents of universities. Higher education quality assurance and the promotion of synergies among science, technology and humanities: towards the attainment of the SDGs in Africa. Palais des Congrès, Yaoundé, Cameroon.

November 20-22nd 2017. Keynote Speaker. African Vegetable Forum. “From Plot to Plate. Sun Beach Hotels, Cotonou, Benin Republic.

October, 4-6, 2017. Speaker. Joint SASA 5th annual international scientific meeting and University of Rwanda Biotechnology Conference. Kigali, Rwanda.

August 7-10, 2017. Participant. National Association of Plant Breeders meeting in Davis, CA USA.

CONFERENCES PAPERS

Dèdèou Apocalypse Tchokponhou, Sognigbé N’danikou, and Enoch Gbènato. Achigan-Dako. Differential growth response of the miracle plant *synsepalum dulcificum* (*schumach & thonn.*) Daniell to mineral fertilization induced by seedling age. Poster. 8th International Agriculture Symposium “Agrosym 2017”, Jahorina (Bosnia and Herzegovina), 5-8 October 2017.

Carlos A. Houdegbe, Dèdèou A. Tchokponhou, E.O. Dèdèi Sogbohossou, Enoch G. Achigan-Dako. Current status and future of Genetically Modified Crops in Benin. Présentation orale. VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin

Carlos A. Houdegbe, E.O. Dèdèi Sogbohossou, and Enoch G. Achigan-Dako. Effect of Agronomic Practices on Growth and Leaf Yield in *Gynandropsis gynandra* (L.) Briq. Poster. Tropentag, September 20-22, 2017, Bonn.

Carlos A. Houdegbe, E. O. Dèdèi Sogbohossou, Enoch G. Achigan-Dako Effect of Agronomic Practices on Growth and Leaf Yield in *Gynandropsis gynandra* (L.) Briq. Poster VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

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Enoch G. Achigan-Dako, Nouroudine Soulemane, E.O. Dêêdi Sogbohossou, Dedeou A. Tchokponhoue, Carlos A. Houdegbe, Monique G. Tossou, Jeanne Zoundjihékpon Exploration de la variabilité morphologique de onze accessions de *Amaranthus dubius* Mart. ex Thell (Amaranthaceae), un légume-feuille traditionnel négligé Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Fernand Silvere Sohindji, E.O. Dêêdi Sogbohossou, Enoch G. Achigan-Dako Effets des génotypes et des prétraitements des semences sur la germination chez *Acaya* (*Gynandropsis gynandra* (L.) Briq.) Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Idrissou Ahoudou, A. Lys Aglinglo, E.O. Dêêdi Sogbohossou, Enoch G. Achigan- Dako Analyse de la moyenne de générations sur trois types de populations de tomate établies à partir de trois variétés locales de tomate du sud Bénin Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Charlotte A. O. Adjé, Enoch G. Achigan-Dako, Hounnankpon Yedomonhan, Clément Agbangla Morphological characterization of pineapple (*Ananas comosus*) genetic resources from Benin Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Jelila S. Blalogoe, Enoch G. Achigan-Dako, Hounnankpon Yedomonhan, Clément Agbangla Development of pure lines and hybrid cultivars for high leaf yield in *Gynandropsis gynandra* (L.) through index selection Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Carlos A. Houdegbe, E.O. Dêêdi Sogbohossou, Enoch G. Achigan Dako Agronomic practices to enhance growth and leaf yield in *Gynandropsis gynandra* (L.) Briq. in Southern Benin, West Africa Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Chantal A. Lokossou, Dèdèou A.Tchokponhoué, Enoch G. Achigan-Dako Reproductive biology and vegetative propagation in *Synsepalum dulcificum* (Schumach. et Thonn.) Daniell [syn: *Richardella dulcifica* (Schumach et Thonn.) Bahieni]: implications for breeding Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Sognigbé N'danikou, Dèdèou A. Tchokponhoué, Aristide C. Houdégbé, Aboègnonhou O.C. Agossou, Enoch G. Achigan-Dako, Françoise Assogba Komlan, Raymond S. Vodouhè and Adam Ahanchédé Edible leaves and timber production in managed woodlot of *Vitex doniana* Sweet (Lamiaceae), a wild-harvested economic plant in Benin Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Enoch G. Achigan-Dako, Hervé Degbey, Iago Hale, F.R. Blattner Georeferenced phylogenetic analysis of a global collection of wild and cultivated *Citrullus* species based on chloroplast DNA diversity Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Eric C. Legba, Lys A. Aglinglo, Carlos A. Houdegbe, Armel Mensah, Enoch G. Achigan Dako Production et distribution des semences maraîchères au Sud-Bénin: Situation actuelle et perspectives Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Enoch Achigan-Dako, I. Hale, O.D. Sogbohossou, E. Schanz, R. H. Mumm, A. Van Deynze, R. Kahane, D. This, O. Happiness, Dedeou Tchokponhoue, Charlotte A. Adje, Carlos Houdegbe, W. Abtwe Gebreselassie, L. Akundabweni, H. Degbey, H. Zohoungbogbo, F. Akohoué, J. Sibiya Genomic breeding of orphan crops for improved nutrition and health in Africa: new opportunities, targets, applications, and challenges Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Dedeou A. Tchokponhoue Sognigbé N'danikou Enoch G. Achigan-Dako Improving germination and seedling growth in *Synsepalum dulcificum* (Schumach. & Thonn.) Daniell [syn: *Richardella dulcifica* (Schumach. & Thonn.) Baehni] Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

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Dedeou Apocalypse Tchokponhoue Sognigbe N'danikou, Iago Hale Allen Van Deynze Enoch Gbenato Achigan-Dako Early fruiting in *Synsepalum dulcificum* (Schumach. & Thonn.) Daniell [syn: *Richardella dulcifica* (Schumach. & Thonn.) Baehni] juveniles induced by water and inorganic nutrient management
Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Ulrich Djido, Valère A. Awomenou, Kênou Y. B. Adonon, Lys A. Aglinglo, Chaldia A. Agossou, Sylvain Kpenavoun Chogou, Enoch G. Achigan Dako Analyse des systèmes de production et de commercialisation de la pastèque (*Citrullus lanatus*) au Bénin
Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Félicien Akohoue, Alcade C. Segnon, Enoch G. Achigan-Dako Typology of smallholder *Citrus* orchards and cultivation bottlenecks in Benin: research avenues for improved production
Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

A. Rachidi Francisco, E. O. Dêdi Sogbohossou, Enoch G. Achigan-Dako, Komi Agboka And Aimé H. Bokonon-Ganta Monitoring pests and diseases affecting *Gynandropsis gynandra* (L.) Briq. (Cleomaceae) and farmers' management practices in Benin and Togo (West Africa)
Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Christel Ferréol Azon Enoch G. Achigan-Dako Raymond S. Vodouhe. Agro-morphological characterization and narrow sense heritability analysis for fruit weight and sugar content of yellow watermelon [*Citrullus lanatus* (Thunb) Matsum. & Nakai] introduced in Benin.
Présentation orale VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Sègla Innocent, Dassèkpo, Enoch G., Achigan-Dako, Brice Tenté, Christophe S., Houssou, Adam Ahanchédé. Implications biogéographiques et écologiques de *Newbouldia laevis* (P.Beau.) Seemann dans ses aires de distribution au Bénin. Oral presentation. VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Enoch G. Achigan-Dako, I. Hale, O.D. Sogbohossou, H. Degbey, E. Schanz, R.H. Mumm, A. Van Deynze, R. Kahane, D. This, Dedeou Tchokponhoue, Charlotte A. Adje, Carlos Houdegbe, W. Abtwe Gebreselassie, O. Happiness, L. Akundabweni, H. Zohoungbogbo, F. Akohoue and J. Sibiya Genomic Breeding of Orphan Crops for Improved Food Security and Nutrition in Africa: Opportunities, Targets, Applications, and Challenges. Oral presentation VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Dèdèou Apocalypse Tchokponhoue, Sognigbé N'Danikou, and Enoch Gbenato Achigan-Dako. Differential Growth Response Of The Miracle Plant *Synsepalum dulcificum* (Schumach & Thonn.) Daniell To Mineral Fertilization Induced By Seedling Age
Poster presentation. VI colloque des Sciences, Cultures et Technologies: Septembre 2017, Cotonou, Benin.

Segnon, A.C., Achigan-Dako, E.G Harnessing wild edible plants diversity for food security in the context of climate variability and change in semi-arid areas of Benin. 3rd African Congress for Conservation Biology - ACCB 2016, El Jadida, Morocco.

Alcade C. Segnon, Enoch Gbenato Achigan-Dako, Orou Gaoue Spatio-temporal dynamics of farmers' knowledge and perception of diversified farming systems in semi-arid Northern Benin
2016 School of Social Sciences International Conference on The Social Sciences, Good Governance and Sustainable Development Goals, At University of Ghana, Legon, Accra, Ghana.

PROFESSIONAL SERVICE / MEMBERSHIP

2023 – Present. Vice President. African Plant Breeders Association
2021-2023. Secretary General. African Plant Breeders Association.
2021. Guest Associate Editor, Crop Biology and Sustainability, *Frontiers in Sustainable Food Systems*
2023. Review Editor, Breeding and Genetics, *Frontiers in Horticulture*
2013. Associate editor, Fruits, *The International Journal of Tropical and Subtropical Horticulture*
2018-2019. Associate editor, *Scientific African*.
2011. Society for Economic Botany, Genetic Society of America.

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MANUSCRIPTS REVIEW

Scientific African (10), Genetic resources and crop evolution (12), Fruits (16), Economic Botany (2), Biotechnology Agriculture Society et Environment (2), Annales des Sciences Agronomiques (3), Acta Horticulturae (1), PhytoKeys (1), Vertigo (1), Frontiers (14).

GRADUATE AND UNDERGRADUATE MENTORING

PhD Students

- 2018 – 2021: Chaldia A. Agossou.** Project title: Cultivar development in *Macrotyloma geocarpum*. GENES Intra-Africa Program, Ebonyi State University (Nigeria).
- 2018 – 2021: Hervé Degbey.** Project title: Cultivar development and disease resistance study in *Bananas*. GENES Intra-Africa Program, Ebonyi State University (Nigeria).
- 2018 – 2021: Omar Yacouba Toure.** Project title: Cultivar development/Pest management in *Macrotyloma geocarpum*. GENES Intra-Africa Program, University of Abomey-Calavi (Rep. Benin).
- 2018 – 2021: Mariam Coulibaly.** Project title: Cultivar development in *Macrotyloma geocarpum*. MoBreed Intra-Africa Program, University of Abomey-Calavi (Rep. Benin).
- 2018 – 2021: Razackou Abdou Yerima:** Project title: Improving fonio breeding efficiency through molecular genetic studies in the Sahel regions of West Africa. MoBreed Intra-Africa Program, University of Abomey-Calavi (Rep. Benin).
- 2018 – 2021: Josephine Pasipanodya.** Project title: Cultivar development in *Vigna subterranean* using mutagenesis. MoBreed Intra-Africa Program, University of Namibia (Namibia).
- 2018 – 2021: Dedeou Tchokponhoué.** Project title: Multi-traits genomic selection in *Synsepalum dulcificum*: implications for early fruiting, pulp-denseness and high yielding genotypes profiling. MoBreed Intra-Africa Program, University of KwaZulu Natal (South Africa).
- 2018 – 2021: Carlos Houdegbe:** Genomics of *Cleome gynandra* for disease resistance and leaf yield improvement. MoBreed Intra-Africa Program, University of KwaZulu Natal (South Africa).
- 2018 – 2021: Elodie Beatrice Capo-Chichi.** Project Title: Genetics and agro-ecological determinants for yield improvement in the local dessert banana cultivars "Sotoumon" (*Musa* sp.) in Benin. University of Abomey-Calavi (Rep. Benin).
- 2016 – 2019: Servais Avohou.** Project Title: Maize system and climate change. University of Abomey-Calavi (Rep. Benin).
- 2015 – 2019: Olga D. Sogbohossou.** Project title: *Improving phytonutrient content and leaf yield in Cleome gynandra*. University of Abomey-Calavi (Rep. Benin) and University of Wageningen (Netherlands).
- 2015 – 2019: Alcade C. Segnon.** Project title: *Exploring the role of agrobiodiversity for climate change adaptation in semi-arid areas of West Africa: A case study in Mali*. University of Ghana (Ghana).
- 2014 – 2016: Charlotte A. Adjé :** Project title: *Analyse de la variabilité génétique et développement de stratégies d'amélioration et de conservation des cultivars locaux et introduits de l'ananas au Bénin*. Graduated, University of Abomey-Calavi (Rep. Benin).
- 2012 – 2016: Sognigbe Ndanikou.** Project title: Modélisation fonction-structure de la croissance de *Vitex doniana*. Graduated, University of Abomey-Calavi (Rep. Benin).

MSc and BSc Students

- 2018-2019: Felicien Akohoue:** GWAS analysis in *Macrotyloma geocarpum*. MoBreed Intra-Africa Program, University of KwaZulu Natal. South Africa
- 2018-2019: Jelila Blalogue:** Diallel analysis in high performing cultivars of *Gynandropsis gynandra* in Africa. MoBreed Intra-Africa Program, University of KwaZulu Natal. South Africa

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- 2018-2019: Chantal Atchié Lokossou:** Reproductive biology, nuclear DNA content and genetic diversity in *Synsepalum dulcificum* (Schumach et Thonn.) Daniell [syn; *Richardella dulcifica* (Schumach et Thonn.) Bahieni]: implications for breeding.
- 2014-2018: Rachidi Francisco:** Ethno-entomological survey and field evaluation of pests and diseases affecting *Gynandropsis gynandra* (L.) Briq. (Cleomaceae) and farmers' management practices in Benin
- 2014-2018: Ulrich Djido:** Increasing pineapple fruit quality and yield through better planting density and appropriate fertilizers application in Benin
- 2014-2016: Christel Azon:** Agro-morphological variation and analysis of heritability for fruit weight and sugar content in introduced yellow watermelon [*Citrullus lanatus* (Thunb) Matsum. & Nakai] in Benin.
- 2014-2018: Herbaud P.F. Zohoungbogbo:** Floral morphology and reproductive biology in *Gynandropsis gynandra* (L) Briq
- 2014-2016: Carlos Houdegbe.** Project title: Enhancing growth and leaf yield in *Cleome gynandra* L. using agronomic practices to accelerate crop domestication. University of Abomey-Calavi (Rep. Benin)
- 2014-2016: Dédéou A. Tchokpohoué.** Project title: Biological determinants for increased utilization of the miracle plant *Synsepalum dulcificum* (Schumach & Thonn.) Daniell. University of Abomey-Calavi (Rep. Benin)
- 2014-2016 : Chaldia A. Agossou.** Project title: Agronomic and participatory evaluation of nine watermelon genotypes on ferralitic and hydromorphic soils in southern Benin. University of Abomey-Calavi (Rep. Benin)
- 2014-2016: Lys A. Aglinglo.** Project title: Evaluation of nine watermelon genotypes across phytoecological regions in Benin. University of Abomey-Calavi (Rep. Benin)
- 2013-2014 : Amandine Akakpo.** Project title: Ethnobotanique et amélioration de la reproduction sexuée de trois légumes feuilles (Asteraceae). University of Abomey-Calavi (Rep. Benin)
- 2013-2014 : Alcade C. Segnon.** Project title: *Investigating ecological intensification options and the place of plant genetic resources in arid and semi-arid areas of Benin.* University of Abomey-Calavi (Rep. Benin)
- 2013-2014 : Olga D. Sogbohossou.** Project title: *Vegetable amaranths: phenetic classification and farmers' knowledge in an urban-rural continuum in southern Benin.* University of Abomey-Calavi (Rep. Benin)
- 2012-2013 : Hervé Dégbey.** Project title: *Analyse phylogéographique de *Citrullus lanatus* (pastèque) et de *Citrullus colocynthis*.* University of Abomey-Calavi (Rep. Benin)
- 2012-2013 : Charlotte A. Adje.** Project title: *Analyse des connaissances locales et des bases génétiques pour l'amélioration de l'ananas (*Ananas comosus*) au Bénin.* University of Abomey-Calavi (Rep. Benin)
- 2011-2012 : Edgar Avohou.** Project title: *Analyse phénétique de *Citrullus lanatus* et de *Citrullus colocynthis* provenant de l'Afrique, de l'Asie, des Etats Unis et de l'Europe.* University of Abomey-Calavi (Rep. Benin)
- 2012-2013 : Ronald Togbé.** Project title: *Amélioration du rendement en huiles essentielles d'*Ocimum gratissimum*.* University of Abomey-Calavi (Rep. Benin)
- 2011-2012 : Carlos Houdegbe.** Project title: *Analyse conjoncturelle de la filière semence de maïs au Sud Bénin.* University of Abomey-Calavi (Rep. Benin)
- 2011-2012 : Dedehou Tchokpohoué.** Project title: *Viabilité des boutures et semences de *Vitex doniana* (fonman) suivant différents régimes de prétraitement.* University of Abomey-Calavi (Rep. Benin)
- 2011-2012 : Chaldia Agossou.** Project title: *Pressions anthropiques et stratégies locales de conservation de *Vitex doniana* dans la commune de Djidja au Sud-Bénin.* University of Abomey-Calavi (Rep. Benin).

PUBLICATIONS

Peer-review articles (Scopus H-index: 17, Citation 1039)

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1. Tchokponhoué, D. A., Legba, E. C., N'Danikou, S., Nyadanu, D., Oselebe, H. O., & **Achigan-Dako, E. G.** (2023). Developing improvement strategies for management of the Sisrè berry plant [*Synsepalum dulcificum* (Schumach & Thonn.) Daniell] based on end-users' preferences in southern Nigeria. *Frontiers in Sustainable Food Systems*, 7, 1252036.
2. Capo-Chichi DBE, Tchokponhoue DA, Sogbohossou DEO, **Achigan-Dako EG** (2023) Narrow genetic diversity in germplasm from the Guinean and Sudano-Guinean zones in Benin indicates the need to broaden the genetic base of sweet fig banana (*Musa acuminata* cv Sotoumon). *PLoS ONE* 18(11): e0294315. <https://doi.org/10.1371/journal.pone.0294315>
3. Christel Ferréol Azon, Vodjo Nicodème Fassinou Hotegni, Dêédi Eurydice Olga Sogbohossou, Lewis Spencer Gnanglè, Guillaume Bodjrenou, Charlotte O. Adjé, Komivi Dossa, Clément Agbangla, Florent J.B. Quenum, **Enoch G. Achigan-Dako** (2023) Genotype × environment interaction and stability analysis for seed yield and yield components in sesame (*Sesamum indicum* L.) in Benin Republic using AMMI, GGE biplot and MTSI, *Heliyon* Volume 9, Issue 11, e21656 <https://doi.org/10.1016/j.heliyon.2023.e21656>
4. Azon CF, Fassinou Hotegni NV, Adjé CAO, Agossou CO, Sogbohossou OED, Nouletope H, Akotchayé OPK, Kékpè P, Aïssou C, Guirguissou MA, Dossa K, Agbangla C, Quenum FJB, and **Achigan-Dako EG.** (2023) Socio-demographic factors and ethnobotanical knowledge associated with sesame management practices across agroecological zones in Benin. *Experimental Agriculture*. <https://doi.org/10.1017/S0014479723000078>
5. Kaczmarek, T., Causse, S., Abdul, S. D., Abraham, S., **Achigan-Dako, E. G.**, Adje, C., Adjebeng-Danquah, J., Agyare, R. Y., Akanvou, L., Bakasso, Y., Barry, M. B., Bonsu, S. K., Calatayud, C., Conde, S., Couderc, M., Dachi, S. N., Diallo, T., Diop, B. M., Deu, M., ... Billot, C. (2023). Towards conservation and sustainable use of an indigenous crop: A large partnership network enabled the genetic diversity assessment of 1539 fonio (*Digitaria exilis*) accessions. *Plants, People, Planet*, 1–10. <https://doi.org/10.1002/ppp3.10424>.
6. Parfait K. Tapsoba, Augustin K.N. Aoudji, Felix Ouédraogo, Innocent S. Dassekpo, Marie-Paule Kestemont, Madeleine Kabore Konkobo, **Enoch G. Achigan-Dako** (2023). Understanding the behavioral drivers of smallholder agro-ecological practice adoption in Benin and Burkina Faso. *Farming System*, Volume 1, Issue 2, 2023. <https://doi.org/10.1016/j.farsys.2023.100023>.
7. Isiaka, A. I., Agossou, C. O. A., Agbolade, J. O., Adje, C. A. O., Fassinou, N. V., Tossou, M. G., Oselebe, H., & **Achigan-Dako, E. G.** (2023). Phenology, floral organs ultra-structure, traits correlation, stigma receptiveness, pollen viability and germinability in horsegram (*Macrotyloma uniflorum* Lam.) Verdc. *South African Journal of Botany*, 161, 444–453. <https://doi.org/10.1016/j.sajb.2023.08.033>
8. Agossou ACO, N'Danikou S, Fassinou Hotègni VN, Kakpo TA, Coulibaly M, Oselebe HO and **Achigan-Dako EG** (2023) Determinants of farmers' willingness to pay for improved cultivars of *Macrotyloma geocarpum* (harms) Maréchal and Baudet in Benin and Togo. *Front. Sustain. Food Syst.* 7:1180961. doi: 10.3389/fsufs.2023.1180961
9. van Zonneveld, M., Kindt, R., McMullin, S., **Achigan-Dako, E.G.**, N'Danikou, S., Hsieh, W.H., Lin, Y.R. and Dawson, I.K., 2023. Forgotten food crops in sub-Saharan Africa for healthy diets in a changing climate. *Proceedings of the National Academy of Sciences*, 120(14), p.e2205794120.
10. Nam V Hoang, E O Deedi Sogbohossou, Wei Xiong, Conor J C Simpson, Pallavi Singh, Nora Walden, Erik van den Bergh, Frank F M Becker, Zheng Li, Xin-Guang Zhu, Andrea Brautigam, Andreas P M Weber, Jan C van Haarst, Elio G W M Schijlen, Prasad S Hendre, Allen Van Deynze, **Enoch G Achigan-Dako**, Julian M Hibberd, M Eric Schranz, The Gynandropsis gynandra genome provides insights into whole-genome duplications and the evolution of C4 photosynthesis in Cleomaceae, *The Plant Cell*, 2023;, koad018, <https://doi.org/10.1093/plcell/koad018>
11. Mbo Nkoulou, L.F, Archange Tchinda Ninla, L., Cros, D., Martin, G., Ndiang, Z., Houegban, J., Bille Ngalle, H., Martin Bell, J., **Achigan-Dako, E.G.**, 2023. Analysis of genetic diversity and agronomic variation in banana sub-populations for genomic selection under drought stress in Southern Benin. *Gene* 147210. <https://doi.org/10.1016/j.gene.2023.147210>.
12. Sohindji FS, J.-B. Quenum F, Fassinou-Hotegni NV, Adékounlé Oke A, Adje COA, **Achigan-Dako EG.** (2023). Crossing possibility for breeding promising orange-fleshed sweetpotato genotypes in Benin. *Czech J. Genet. Plant Breed.* 2023;59(4):253-262. doi: 10.17221/104/2022-CJGPB.
13. Tchokponhoué, D. A., **Achigan-Dako, E. G.**, Sognigbé, N., Nyadanu, D., Hale, I., Odindo, A. O., & Sibiya,

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- J. (2023). Genome-wide diversity analysis suggests divergence among Upper Guinea and the Dahomey Gap populations of the Sisrè berry (Syn: miracle fruit) plant (*Synsepalum dulcificum* [Schumach. & Thonn.] Daniell) in West Africa. *The Plant Genome*, 1–17. <https://doi.org/10.1002/tpg2.20299>
14. Parfait K. Tapsoba, Augustin K.N. Aoudji, Marie-Paule Kestemont, Madeleine Kabore Konkobo, **Enoch G. Achigan-Dako** (2023). Clustering smallholders' farmers to highlight and address their agroecological transition potential in Benin and Burkina Faso. *Current Research in Environmental Sustainability*, Volume 5, 2023, <https://doi.org/10.1016/j.crsust.2023.100220>.
 15. Toure O.Y., J.S.B. Sanni Worogo, G.C. Tchamadon, B. Nebie, L.A.C. Afouda, **E.G. Achigan Dako**. (2022). Farmers' knowledge and perceptions of Kersting's groundnut [*Macrotyloma geocarpum* (Harms) Maréchal and Baudet] diseases and pests in Benin. *Plant Disease*. Published Online: 12 Dec 2022 <https://doi.org/10.1094/PDIS-09-22-2190-RE>
 16. Adigoun RFR, Houdegbe AC, Fassinou Hotegni NV, Segnon AC, N'Danikou S, Adjé CAO, Adadja RPM and **Achigan-Dako EG** (2022) Enabling effective maize seed system in low-income countries of West Africa: Insights from Benin. *Front. Sustain. Food Syst.* 6:1045629. doi: 10.3389/fsufs.2022.1045629
 17. Mbo Nkoulou LF, Ngalle HB, Cros D, Adje COA, Fassinou NVH, Bell J and **Achigan-Dako EG** (2022) Perspective for genomic-enabled prediction against black sigatoka disease and drought stress in polyploid species. *Front. Plant Sci.* 13:953133. doi: 10.3389/fpls.2022.953133
 18. Houdegbe A.C., **Achigan-Dako E.G.**, Sogbohossou E.O.D., Schranz M.E., Odindo A.O. and Sibiyi J. (2022). Phenotypic variation in biomass and related traits among four generations advanced lines of *Cleome (Gynandropsis gynandra* L. (Briq.)). *PLoS ONE* 17(10): e0275829. <https://doi.org/10.1371/journal.pone.0275829>
 19. Houdegbe, A.C., **Achigan-Dako, E.G.**, Sogbohossou, E.O.D., Schranz, M.E., Odindo, A.O. and Sibiyi, J. (2022). Leaf elemental composition analysis in spider plant [*Gynandropsis gynandra* L. (Briq.)] differentiates three nutritional groups. *Frontiers in Plant Science* 13:841226. <https://doi.org/10.3389/fpls.2022.841226>
 20. Zohoungbogbo, H. P.F., **Achigan-Dako, E. G.**, Honfoga, J., Lin, S. W., Lin, T. H., Wang, Y. W., Chan, Y. L.; Hanson, P. & Barchenger, D. W. (2022). Incidence and Severity of Aphid-transmitted Viruses and Horticultural Performance of Habanero Pepper (*Capsicum chinense* Jacq.) Breeding Lines in Benin. *HortScience*, 57(5), 606-612.
 21. Sohindji FS, Adje O. A. C, Fassinou Hotegni V. N, Fanou Fogny N, Akponikpe T, Quenum F, **Enoch G. Achigan-Dako**. 2022. Orange-fleshed sweetpotato production: Progress and perspectives for value chain development in West Africa. *JSFA Reports*. 2022. <https://doi.org/10.1002/jsf2.42>
 22. Coulibaly, M., Idohou, R., Akohoue, F., Peterson, A.T., Sawadogo, M., **Achigan-Dako, E.G.** Coupling genetic structure analysis and ecological-niche modeling in Kersting's groundnut in West Africa. *Scientific Reports* 12, 1-18. 10.1038/s41598-022-09153-5 (2022)
 23. Imorou, L., Fassinou Hotegni, N.V., Togbe, E.C., Goudou, H.G., **Achigan-Dako, E.G.**, Adoukonou-Sagbadja, H., Ahoton, L.E., 2022. Morphological diversity of *Bobgunnia madagascariensis* (Desv.) J. H. Kirkbr. & Wiersema, across the Sudanian and Sudano-Guinean zones of Benin Republic. *South African Journal of Botany* 147, 731–740. <https://doi.org/10.1016/j.sajb.2022.03.013>
 24. Tapsoba, Parfait K., Augustin K.N. Aoudji, Madeleine Kabore Konkobo, Marie-Paule Kestemont, **Enoch G. Achigan-Dako**. 2022. Exploring the willingness to pay for ecological tomatoes (*Solanum lycopersicum* L.) in Benin and Burkina Faso. *Cleaner and Responsible Consumption*, Volume 4, 100053, <https://doi.org/10.1016/j.clrc.2022.100053>.
 25. Fernand S. Sohindji, Charlotte Adje O. A., Nicodème Fassinou Hotegni V., Nadia Fanou Fogny, Tania Akponikpe, Florent Quenum, **Enoch G. Achigan-Dako** (2022). Orange-fleshed sweetpotato production: Progress and perspectives for value chain development in West Africa. *JSFA Reports*, 2022. <https://doi.org/10.1002/jsf2.42>
 26. Jody Harris, Maarten van Zonneveld, **Enoch G. Achigan-Dako**, Babar Bajwa, Inge D. Brouwer, Dhruvad Choudhury, Ilse de Jager, Bart de Steenhuijsen Piters, M. Ehsan Dulloo, Luigi Guarino, Roeland Kindt, Sean Mayes, Stepha McMullin, Marcela Quintero, Pepijn Schreinemachers (2022). Fruit and vegetable biodiversity for nutritionally diverse diets: Challenges, opportunities, and knowledge gaps. *Global Food Security*, Volume 33, 2022. <https://doi.org/10.1016/j.gfs.2022.100618>.
 27. Merinosy, M.F.; **Achigan-Dako, E.G.**; Gnanglè, P.C.; Kassa, E.; Boffa, J.-M. Morphotype Classification

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- Criteria and Influence of Sociocultural Factors on Perceived Shea Tree (*Vitellaria paradoxa* C.F. Gaertn) Natural Variation across Parklands in Benin. *Plants* 2022, 11, 299. <https://doi.org/10.3390/plants11030299>
28. Coulibaly M, Bodjrenou G, Akohoue F, Agoyi EE, Merinosy Francisco FM, Agossou COA, Sawadogo M and **Achigan-Dako EG** (2022) Profiling Cultivars Development in Kersting's Groundnut [*Macrotyloma geocarpum* (Harms) Maréchal and Baudet] for Improved Yield, Higher Nutrient Content, and Adaptation to Current and Future Climates. *Front. Sustain. Food Syst.* 5:759575. doi: 10.3389/fsufs.2021.759575
 29. Chataika BY, Akundabweni LS-M, Houdegbe AC, **Achigan-Dako EG**, Sibiya J and Masamba K (2021) Dietary Phytochemical Screening of Spider Plant (*Gynandropsis gynandra* (L.) Briq.) Accessions From Africa and Asia to Identify Genotypes for Use in Nutraceutical Breeding. *Front. Sustain. Food Syst.* 5:733909. doi: 10.3389/fsufs.2021.733909
 30. Kumar A, Sreedharan S, Singh P, **Achigan-Dako EG** and Ramchiary N (2021) Improvement of a Traditional Orphan Food Crop, *Portulaca oleracea* L. (Purslane) Using Genomics for Sustainable Food Security and Climate-Resilient Agriculture. *Front. Sustain. Food Syst.* 5:711820. doi: 10.3389/fsufs.2021.711820
 31. Ibrahim Bio Yerima AR, Issoufou KA, Adje CA, Mamadou A, Oselebe H, Gueye MC, Billot C and **Achigan-Dako EG** (2021) Genome-Wide Scanning Enabled SNP Discovery, Linkage Disequilibrium Patterns and Population Structure in a Panel of Fonio (*Digitaria exilis* [Kippist] Stapf) Germplasm. *Front. Sustain. Food Syst.* 5:699549. doi: 10.3389/fsufs.2021.699549.
 32. Emeraghi M, **Achigan-Dako EG**, Nwaoguala CNC, Oselebe H. Maize streak virus research in Africa: an end or a crossroad. *Theor Appl Genet.* 2021 Jul 26. doi: 10.1007/s00122-021-03914-y.
 33. Zohoungbogbo H, Quenum A, Honfoga J, Chen J-R, **Achigan-Dako E**, Kenyon L, Hanson P. Evaluation of Resistance Sources of Tomato (*Solanum lycopersicum* L.) to Phylotype I Strains of *Ralstonia solanacearum* Species Complex in Benin. *Agronomy.* 2021; 11(8):1513. <https://doi.org/10.3390/agronomy11081513>
 34. **Achigan-Dako E.G.**, Sogbohossou OED, Houdegbe CA, Sohindji F., Chataika B., Blalogue J, Zohoungbogbo HF, Oyango Abutkusa M, Salaou M, R. Francisco, Adje A.O.C., Fassinou H. N., E.M. Schranz (2021). Ten years of *Gynandropsis gynandra* improvement for nutrient-rich leaf consumption in Africa: lessons learnt and way forwards. *Annual Plant Reviews* (2021) 4,1– 45.
 35. Tchokponhoué D.A., **Achigan-Dako E.G.**, N'Danikou S., Nyadanu D., Kahane R., Odindo A. O. and J. Sibiya. 2021. Comparative analysis of management practices and end-users' desired breeding traits in the miracle plant [*Synsepalum dulcificum* (Schumach & Thonn.) Daniell] across ecological zones and sociolinguistic groups in West Africa. *Journal of Ethnobiology and Ethnomedicine* (2021) 17:41. <https://doi.org/10.1186/s13002-021-00467-8>
 36. Djido U, Fassinou Hotegni NV, Lommen WJM, HounhouiganJD, **Achigan-Dako EG** and Struik PC (2021) Effect of Planting Density and K2O:N Ratio on the Yield, External Quality, and Traders' Perceived Shelf Life of Pineapple Fruits in Benin. *Front. Plant Sci.* 12:627808. doi: 10.3389/fpls.2021.627808
 37. Ibrahim Bio Yerima AR, **Achigan-Dako EG**. A review of the orphan small grain cereals improvement with a comprehensive plan for genomics assisted breeding of fonio millet in West Africa. *Plant Breed.* 2021;00:1–14. <https://doi.org/10.1111/pbr.12930>.
 38. **Achigan-Dako, E.G.**, Degbey, H., Hale, I., Blattner, F.R. 2021. Georeferenced phylogenetic analysis of a global collection of wild and cultivated *Citrullus* species. *Ecology and Evolution* 2021 Jan 27;11(4):1918-1936. <https://doi.org/10.1002/ece3.7189>.
 39. Segnon, A. C., Totin, E., Zougmore. R. B., Lokossou. C. J., Mary Thompson-Hall, M., Ofori, O. B., **Achigan-Dako, G. E.** & Gordon, C. 2020. Differential household vulnerability to climatic and non-climatic stressors in semi-arid areas of Mali, West Africa. *Climate and Development*. DOI: <https://doi.org/10.1080/17565529.2020.1855097>
 40. Kanlindogbè, C., Sekloka, E., **Achigan-Dako, E. G.** & Kwon-Ndung, E 2020. Mass selection of fonio landraces (*Digitaria exilis* Stapf.) grown in Benin: Pathway, homogeneity assessment and genotypes screening. *Plant Breeding*, DOI: 10.1111/pbr.12876
 41. Tchokponhoué D. A., **Achigan-Dako E. G.**, N'Danikou S., Nyadanu D., Kahane R., Houéto J., Fassinou Hotegni N. V., Odindo A.O. & Sibiya J. 2020. Phenotypic variation, functional traits repeatability and core collection inference in *Synsepalum dulcificum* (Schumach & Thonn.) Daniell reveals the Dahomey Gap as a

CURRICULUM VITAE

December 3, 2023

- centre of diversity. Scientific Reports, DOI: <https://doi.org/10.1038/s41598-020-76103-4>
42. N'Danikou, S.; Houdegbe, A.C.; Tchokponhoue, D.A.; Agossou, A.O.C.; Assogba Komlan, F.; Vodouhe, R.S.; Ahanchede, A.; **Achigan-Dako, E.G.** Initial Plant Vigor and Short Rotation Coppices Improve Vegetable Production in *Vitex doniana* Sweet (Lamiaceae). *Plants* 2020, 9, 1253.
 43. Tapsoba, P.K.; Aoudji, A.K.N.; Kabore, M.; Kestemont, M.-P.; Legay, C.; **Achigan-Dako, E.G.** Sociotechnical Context and Agroecological Transition for Smallholder Farms in Benin and Burkina Faso. *Agronomy* 2020, 10, 1447.
 44. Dassekpo, Sègla Innocent, **Enoch G. Achigan-Dako**, Brice Tenté, Christophe S. Houssou, and Adam Ahanchédé. « Valuation of *Newbouldia laevis* and its endogenous conservation in Benin (West Africa). » *Journal of Herbal Medicine* (2020): 100388. <https://doi.org/10.1016/j.hermed.2020.100388>
 45. Sogbohossou E.O.D, **Achigan-Dako E. G.**, Mumm R., de Vos, R. and Schranz E., 2020. Natural variation in specialised metabolites production in the leafy vegetable spider plant (*Gynandropsis gynandra* L. (Briq.)) in Africa and Asia. *Phytochemistry* 178, 112468. <https://doi.org/10.1016/j.phytochem.2020.112468>
 46. Félicien Akohoue, **Enoch Gbenato Achigan-Dako**, Clay Sneller, Allen Van Deynze, Julia Sibiya »Genetic diversity, SNP-trait associations and genomic selection accuracy in a west African collection of Kersting's groundnut [*Macrotyloma geocarpum*(Harms) Maréchal & Baudet] doi.org/10.1371/journal.pone.0234769
 47. Blalogue, J.S., Odindo, A., Sogbohossou, E.O.D. Sibiya, J. and **Achigan-Dako E.G.** 2020. Origin-dependence of variation in seed morphology, mineral composition and germination percentage in *Gynandropsis gynandra* (L.) Briq. accessions from Africa and Asia. *BMC Plant Biol* 20, 168 (2020). <https://doi.org/10.1186/s12870-020-02364-w>
 48. Coulibaly, M., Agossou, C.O.A., Akohoué, F., Sawadogo, M. and **Achigan-Dako, E.G.** (2020). Farmers' Preferences for Genetic Resources of Kersting's Groundnut [*Macrotyloma geocarpum* (Harms) Maréchal and Baudet] in the Production Systems of Burkina Faso and Ghana. *Agronomy* 10: 3. 1-20. [doi:10.3390/agronomy10030371](https://doi.org/10.3390/agronomy10030371).
 49. Chataika, B.; Akundabweni, L.; **Achigan-Dako, E.G.**; Sibiya, J.; Kwapata, K.; Thomas, B. Diversity and Domestication Status of Spider Plant (*Gynandropsis gynandra*, L.) amongst Sociolinguistic Groups of Northern Namibia. *Agronomy* 2020, 10, 56.
 50. Sohindji, F.S.; Sogbohossou, D.E.O.; Zohoungbogbo, H.P.F.; Houdegbe, C.A.; **Achigan-Dako, E.G.** Understanding Molecular Mechanisms of Seed Dormancy for Improved Germination in Traditional Leafy Vegetables: An Overview. *Agronomy* 2020, 10, 57
 51. Akakpo AD.M. and **Achigan-Dako. E.G.** 2019. Nutraceutical Uses of Traditional Leafy Vegetables and Transmission of Local Knowledge from Parents to Children in Southern Benin. *Agronomy* 9 (12), 805, 2019.
 52. Akohoue, F., **Achigan-Dako, E.G.**, Coulibaly, M., Sibiya J (2019) Correlations, path coefficient analysis and phenotypic diversity of a West African germplasm of Kersting's groundnut [*Macrotyloma geocarpum* (Harms) Maréchal & Baudet]. *Genet Resour Crop Evol* 66: 1825. <https://doi.org/10.1007/s10722-019-00839-w>
 53. Charlotte A. O. Adje, **Enoch G. Achigan-Dako**, Geo Coppens d'Eeckenbrugge, Hounnankpon Yedomonhan and Clément Agbangla (2019) Morphological characterization of pineapple (*Ananas comosus*) genetic resources from Benin. *Fruits* 74(4), 167–179.
 54. Tchokponhoué, D.A., S. N'Danikou and **E.G. Achigan-Dako**. 2019. A combination of approaches evidenced seed storage behaviour in the miracle berry *Synsepalum dulcificum* (Schumach. & Thonn.) Daniell. *BMC Plant Biology* 19: 117.
 55. Tchokponhoué, D.A., S. N'Danikou, J.S. Houéto and **E.G. Achigan-Dako**. 2019. Shade and nutrient-mediated phenotypic plasticity in the miracle plant *Synsepalum dulcificum* (Schumach. & Thonn.) Daniell. *Scientific Reports* 9: 5135.
 56. Sogbohossou E.O.D, D. Kortekaas, **E.G. Achigan-Dako**, P. Maundu, T. Stoilova, A. Van Deynze, R.C.H. de Vos, M. E. Schranz. Association between vitamin content, plant morphology and geographical origin in a worldwide collection of the orphan crop *Gynandropsis gynandra* (Cleomaceae). *Planta*. <https://doi.org/10.1007/s00425-019-03142-1>.
 57. Chogou, S.K., R. Assogba, H. Degbey, E. Abokini and **E.G. Achigan-Dako**. 2019. Market structure and performance of watermelon (*Citrullus lanatus*) in Benin. *Scientific African* 3: e00048.
 58. Akohoué, F., J. Sibiya and **E.G. Achigan-Dako**. 2019. On-farm practices, mapping, and uses of genetic resources of Kersting's groundnut [*Macrotyloma geocarpum* (Harms) Maréchal et Baudet] across ecological

- zones in Benin and Togo. *Genetic Resources and Crop Evolution* 66: 195-214.
59. Endl, J., **E. G. Achigan-Dako**, A. K. Pandey, A. J. Monforte, B. Pico, and H. Schaefer. 2018. Repeated domestication of melon (*Cucumis melo*) in Africa and Asia and a new close relative from India. *American Journal of Botany* 105(10): 1–10. doi:10.1002/ajb2.1172.
 60. Adjé, CA, Quenum F., Akonde PT, **Achigan-Dako GE** and Clément Agbangla. 2018. Differential response of pineapple cultivars to propagules production using stem cuttings. *Annales des Sciences Agronomiques* 22 (2). <https://dx.doi.org/10.4314/asab.v22i2.3>
 61. Zohoungbogbo, PFH, Houdegbe AC, Sogbohossou OED, Tossou GM, Maundu P, Schranz ME, Van Deynze A, Zoundjihékpon J, **Achigan-Dako EG**. 2018. Andromonoecy in *Gynandropsis gynandra* (L.) Briq.(Cleomaceae) and effects on fruit and seed production. *Genet Resour Crop Evol* <https://doi.org/10.1007/s10722-018-0687-5>.
 62. Sogbohossou EOD, **Achigan-Dako EG**, Van Anandel T, Schranz ME. 2018. Drivers of Management of Spider Plant (*Gynandropsis gynandra*) Across Different Socio-linguistic Groups in Benin and Togo. *Economic Botany*, XX(X), 2018, pp. 1–25, <https://doi.org/10.1007/s12231-018-9423-5>.
 63. Tchokponhoué D.A., **Achigan-Dako E.G.**, N'Danikou S., Houdegbe C. A., Agossou C.A.O., Assogba-Komlan F. and Vodouhè R.S. 2018. Regeneration ability and Seedling growth in the miracle plant *Synsepalum dulcificum* (Schumach. & Thonn.) Daniell. *Fruits* 73 (1) 13-21, DOI: 10.17660/th2018/73.1.2.
 64. Houdegbe C. A., Sogbohossou D. E. O, and **Achigan-Dako G.E.** 2018. Enhancing growth and leaf yield in *Gynandropsis gynandra* (L.) Briq. (Cleomaceae) using agronomic practices to accelerate crop domestication. *Scientia Horticulturae Vol* (233) 90-98.
 65. Sogbohossou Deedi E. O., **Achigan-Dako Enoch G.**, Maundu Patrick, Solberg Svein, Deguenon Edgar M. S. Mumm Rita H, Hale Iago, Van Deynze Allen and Eric M. Schranz 2018. A roadmap for breeding orphan leafy vegetable species: a case study of *Gynandropsis gynandra* (Cleomaceae). *Horticulture Research* 5 (2), doi:10.1038/s41438-017-0001-2
 66. Akohoue, F., Segnon, A. C., & **Achigan-Dako, E. G.** (2018). Diversity in smallholder citrus orchards and cultivation bottlenecks: Research avenues for improved production in Benin, West Africa. *Experimental Agriculture*, 54(5), 641-654. doi: 10.1017/S001447971700028X
 67. Houdegbe C.A., Tchokponhoue D.A., Sogbohossou E.O.D., Zoundjihékpon J., **Achigan- Dako E.G.** 2018. Current status and future of genetically modified crops in Benin. [IOBC-WPRS Bulletin 131: 33-40](https://doi.org/10.1007/s10722-015-0361-0).
 68. Affokpon A., Djihinto C.A., Andjanakou-Tachin M. Z, Tossou C., **Achigan-Dako E.G.**, Baimey H.K., Bokonon-GantaA.H. 2017. Gestion des nematodes a galles parasites de la culture d'egusi par l'utilisation de *Trichoderma asperillum* et de la poudre de graine de neem. *African Crop Science Journal* 25(2):133-143
 69. Tchokponhoué DA, N'Danikou S, Hale I. **Achigan-Dako E.G** et al. Early fruiting in *Synsepalum dulcificum* (Schumach. & Thonn.) Daniell juveniles induced by water and inorganic nutrient management. *F1000Research*2017, 6:399 (doi: 10.12688/f1000research.11091.1)
 70. Adje, C.A., **Achigan-Dako E.G.**, Agbangla, C., 2016. Optimizing genomic DNA isolation in Pineapple (*Ananas comosus* L.). *Journal of Plant Breeding and Genetics* 4(1):11-18
 71. Houdegbe C.A., Sogbohossou O.E.D., **Achigan-Dako E.G.** 2016. Utilization and breeding perspective in the egusi gourd *Melothria sphaerocarpa* (Cogn.) H. Schaefer. et S.S. Renner (syn: *Cucumeropsis mannii* Naudin). *Genetic Resources and Crop Evolution*, Online First 1-15, 10.1007/s10722-015-0361-0.
 72. Sikirou M., Saito K., **Achigan-Dako E. G.**, Nani Dramé K., Ahanchédé A. and Venuprasad R. 2015. Genetic Improvement of Iron Toxicity Tolerance in Rice-Progress, Challenges and Prospects in West Africa. *Plant Production Science* 18(4):423-434.
 73. **Achigan-Dako E.G.**, Avohou E.S., Linsoussi C., Ahanchede A., Vodouhe S.R., Blattner R.F. 2015. Phenetic characterization of *Citrullus* spp. (Cucurbitaceae) and differentiation of egusi-type (*C. mucosopermus*). *Genetic Resources and Crop Evolution* 62(8):1159-1179
 74. Segnon A.C., **Achigan-Dako E.G.**, Gaoue O.G., Ahanchede A. 2015. Farmer's knowledge and perception of diversified farming systems in sub-humid and semi-arid areas in Benin. *Sustainability* 7(6):6573-6592
 75. N'Danikou S., **Achigan-Dako E.G.**, Tchokponhoué D.A., Agossou C.A.O., Houdegbe C.A., Vodouhe R.S. and Ahanchede A. 2015. Modelling socioeconomic determinants for cultivation and in-situ conservation of *Vitex doniana* Sweet (Black plum), a wild harvested economic plant in Benin. *Journal of Ethnobiology and Ethnomedicine* 11(1):28
 76. N'Danikou S., **Achigan-Dako E.G.**, Tchokponhoué D.A., Assogba-Komlan F., Vodouhè R.S. and

CURRICULUM VITAE

December 3, 2023

- Ahanchédé A. 2015. Improving seedling production for *Vitex doniana*. *Seed Science and Technology* 43(1):10-19.
77. **Achigan-Dako E.G.**, Tchokponhoué D.A., N'Danikou S., Gebauer J., Vodouhè R.S. 2015. Current knowledge and breeding perspectives for the miracle plant *Synsepalum dulcificum* (Schum. et Thonn.) Daniell. *Genetic Resources and Crop Evolution* 62 (3):465-476.
78. Sogbohossou E.O.D., **Achigan-Dako E. G.**, Assogba-Komlan F., Ahanchede A. 2015. Diversity and differential utilization of *Amaranthus* spp. along the urban-rural continuum of Southern Benin. *Economic Botany* 69(1):9-25.
79. Segnon, A.C., **Achigan-Dako, E.G.** 2014. Comparative analysis of diversity and utilization of edible plants in arid and semi-arid areas in Benin. *Journal of Ethnobiology and Ethnomedicine* 10(1):80
80. N'Danikou S., **Achigan-Dako E.G.**, Tchokponhoué D.A., Assogba-Komlan F., Gebauer J., Vodouhè R.S. and Ahanchédé A. 2014. Enhancing germination and seedling growth in *Vitex doniana* Sweet for horticultural prospects and conservation of genetic resources. *Fruits* 69(4): 279-291.
81. **Achigan-Dako, E.G.**, N'Danikou, S., Tchokponhoué, D.A., Assogba-Komlan, F., Larwanou, L., Vodouhe, S.R., Ahanchede, A. 2014. Sustainable use and conservation of *Vitex doniana* Sweet: unlocking the propagation ability using stem cuttings. *Journal of Agriculture and Environment for International Development* 108(1): 43-62.
82. Sogbohossou, E.O.D., **Achigan-Dako, E.G.** 2014. Phenetic differentiation and use-type delimitation in *Amaranthus* spp. from worldwide origins. *Scientia Horticulturae* 178:31-42.
83. **Achigan-Dako, E.G.**, Sogbohossou E.O.D., Maundu, P. 2014. Current knowledge on *Amaranthus* spp.: research avenues for improved nutritional value and yield in leafy amaranths in Sub-Saharan Africa. *Euphytica* 197(3):303-317.
84. Pasquini, M.W., Weinberger, K., Assogba-Komlan, F., Kouamé, C., Akplogan, F., Djidji, H., **Achigan-Dako, E.G.**, Young, E.M. 2014. Characterising urban and peri-urban production systems for African indigenous vegetables in four cities in Benin and Côte d'Ivoire. *Acta Horticulturae* 1021: 137-151.
85. **Achigan-Dako, E.G.**, Adje, C.A., N'Danikou, S., Fassinou-Hotegni, V.N., Agbangla, C., Ahanchede, A. 2014. Drivers of conservation and utilization of pineapple genetic resources in Benin. *SpringerPlus* 3:273
86. **Achigan-Dako, E.G.**, Houdegbe, C., Glèlè, M., Nono-Womdim, R. 2014. Analyse du système de production et de distribution des semences de maïs (*Zea mays* L.) au Sud-Bénin. *Biotechnology, Agronomy, Society and Environment* 18(1): 49-60.
87. Ndenga, E.A., **Achigan-Dako, E.G.**, Mbugua, G., Maye, D., Ojanji, W., 2013. Agricultural Diversification with Indigenous Vegetables for Cash Cropping and Nutrition: Examples from Rift Valley and Central Provinces in Kenya. *Acta Horticulturae* 979: 549-558.
88. N'Danikou S., **Achigan-Dako E.G.**, Wong L.G.J. 2011. Eliciting local values of wild edible plants in Southern Benin to identify priority species for conservation. *Economic Botany* 65(4): 381-395
89. **Achigan-Dako E.G.**, N'Danikou S., Assogba-Komlan F., Ambrose-Oji B., Ahanchede A., Pasquini M.W. 2011. Diversity, Geographical and Consumption Patterns of Traditional Vegetables in Sociolinguistic Communities in Benin: Implications for Domestication and Utilization. *Economic Botany* 65(2): 129-145.
90. **Achigan-Dako E.G.**, Avohou H.T., Ahouanmagnagahou R.A., Vodouhè R.S., Ahanchede A. 2009. Viability response of cucurbit seeds (*Citrullus lanatus* subsp. *mucosospermus*, *Cucumeropsis mannii* and *Lagenaria siceraria*) stored under various moisture content and temperature conditions. *Seed Science and Technology* 37: 520–526
91. **Achigan-Dako E.G.**, Fagbemissi, R., Avohou, T.H., Vodouhe, S.R., Coulibaly, O., Ahanchede, A. 2008a. Importance and practices of egusi crops (*Citrullus lanatus*, *Cucumeropsis mannii* and *Lagenaria siceraria* cv. 'Aklamkpa') in socio-linguistic areas in Benin. *Biotechnologie Agronomie Société et Environnement* 12: 393-403.
92. **Achigan-Dako E.G.**, Vodouhe S.R, Sangaré A. 2008b. Caractérisation morphologique des cultivars locaux de *Lagenaria siceraria* (Cucurbitaceae) collectés au Bénin et au Togo. *Belgian Journal of Botany*, 141: 21-38.
93. **Achigan-Dako E.G.**, Fuchs J., Ahanchede A., Blattner R.F. 2008c. Flow cytometric analysis in *Lagenaria siceraria* (Cucurbitaceae) indicates correlation of genome size with usage types and growing elevation. *Plant Systematics and Evolution* 276: 9-19.
94. **Achigan-Dako E.G.**, N'Danikou S., Ahanchede A., Ganglo J.C., Blattner R.F. 2008d. Phenetic analysis of

CURRICULUM VITAE

December 3, 2023

- wild populations of *Momordica charantia* L. (Cucurbitaceae) in West Africa and inference of the definition of the new subspecies *macroloba* Achigan-Dako & Blattner. *Candollea* 63: 153-167.
95. **Achigan-Dako E.G.**, Baudoin J-P. 2007. *Cucumis melo* L. subsp. *agrestis* (Naudin) Pangalo (Cucurbitaceae): nécessité de clarification sur le statut de la sous-espèce. *Biotechnologie Agronomie Société Environnement* 11, 283-286.
 96. **Achigan-Dako E.G.**, Fanou N., Kouke A., Avohou H., Vodouhe S.R., Ahanchede A. 2006. Evaluation agronomique de trois espèces de Egusi (Cucurbitaceae) utilisées dans l'alimentation au Bénin et élaboration d'un modèle de prédiction du rendement. *Biotechnologie Agronomie Société Environnement* 10: 121-129.
 97. Vodouhe R.S., **Achigan-Dako E.G.**, Dulloo M.E., Kouke A. 2008. Effects of silica gel, sun drying and storage conditions on viability of egusi seeds (Cucurbitaceae). *Plant Genetic Resources Newsletter* 153: 36-42.
 98. Assogba-Komlan F., Anihouvi P., **Achigan-Dako E.**, Sikirou R., Boko A., Adje C., Ahle V., Vodouhe R., Assa A. 2007. Pratiques culturales et teneur en éléments anti nutritionnels (nitrates et pesticides) du *Solanum macrocarpon* au sud du Bénin. *African Journal of Food, Agriculture, Nutrition, and Development* 7:4
 99. **Achigan-Dako E.G.**, Duloo M.E., Vodouhe S.R., Engelmann F. 2004. Investigating effects of sun, shade and silica gel on grain legume seeds quality in Benin. *Plant Genetic Resources Newsletter* 140: 1-8.

Book and Book Chapters

1. Maarten van Zonneveld, Gayle M. Volk, M. Ehsan Dulloo, Roeland Kindt, Sean Mayes, Marcela Quintero, Dhruvad Choudhury, **Enoch G. Achigan-Dako** & Luigi Guarino (2023). Safeguarding and Using Fruit and Vegetable Biodiversity. In: von Braun, J., Afsana, K., Fresco, L.O., Hassan, M.H.A. (eds) *Science and Innovations for Food Systems Transformation*. Springer, Cham. https://doi.org/10.1007/978-3-031-15703-5_30
2. Vihotogbé, R., Sossa-Vihotogbé, C.N.A., **Achigan-Dako, G.E.**, 2014. Safety of Botanical Ingredients in Personal Healthcare: Focus on Africa. In: Gurib-Fakim, A. (Ed.), *Novel Plant Bioresources*. John Wiley & Sons, Ltd, Chichester, UK, pp. 395-408. ISBN: 9781118460610
3. N'Danikou, S., Tchokponhoué, D.A., Houdegbe, C.A., **Achigan-Dako, E.G.**, 2014. African Plant Biodiversity in Pest Management. In: Gurib-Fakim, A. (Ed.), *Novel Plant Bioresources*. John Wiley & Sons, Ltd, Chichester, UK, pp. 263-283. ISBN: 9781118460610
4. Holou R.A.Y., **Achigan-Dako E.G.**, and Sinsin B. 2013. Ecology and management of invasive plants in Africa. In *Invasive Plant Ecology*, eds. Jose, S., Singh, H., Kohli, R., and Batish, D., pp 161-174. Boca Raton, FL: CRC Press. ISBN: 978-1-4398-8126-2.
5. **Achigan-Dako, E.G.** 2012. *Hibiscus vitifolius* L. *Plant Resources of Tropical Africa 16. Fibres*, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 258-260; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8
6. **Achigan-Dako, E.G.** 2012. *Hibiscus tiliaceus* L.. *Plant Resources of Tropical Africa 16. Fibres*, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 256-258; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8
7. **Achigan-Dako, E.G.** 2012. *Hibiscus panduriformis* Burn.f.. *Plant Resources of Tropical Africa 16. Fibres*, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 248-250; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8
8. **Achigan-Dako, E.G.** 2012. *Hibiscus congestiflorus* Hochr.. *Plant Resources of Tropical Africa 16. Fibres*, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 254-246; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8
9. **Achigan-Dako, E.G.** 2012. *Momordica angustisepala* Harms. *Plant Resources of Tropical Africa 16. Fibres*, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 334-; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8
10. **Achigan-Dako, E.G.** 2012. *Abutilon ramosum* (Cav.) Guilll. & Perr.. *Plant Resources of Tropical Africa 16. Fibres*, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 28-29; PROTA Foundation, Wageningen, Netherlands.
11. **Achigan-Dako, E.G.** 2012. *Abutilon mauritianum* (Jacq.) Medik. *Plant Resources of Tropical Africa 16. Fibres*, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 26-27; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8

CURRICULUM VITAE

December 3, 2023

12. Achigan-Dako, E.G. 2012. *Abutilon longicuspe* Hochst. ex A.Rich.. Plant Resources of Tropical Africa 16. Fibres, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 25-26; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8
13. Achigan-Dako, E.G. 2012. *Abutilon grandifolium* (Willd.) Sweet. Plant Resources of Tropical Africa 16. Fibres, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 24-25; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8
14. Achigan-Dako, E.G. 2012. *Abutilon hirtum* (Lam.) Sweet. Plant Resources of Tropical Africa 16. Fibres, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 25; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8
15. Achigan-Dako, E.G. 2012. *Abutilon angulatum*. Plant Resources of Tropical Africa 16. Fibres, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 23-24; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8
16. Achigan-Dako, E.G. 2012. *Abelmoschus ficulneus* (L.) Wight & Arn. Plant Resources of Tropical Africa 16. Fibres, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 19-20; PROTA Foundation, Wageningen, Netherlands., ISBN: 978-92-9081-481-8
17. Vodouhe, F.G., S. N'Danikou, E.G. Achigan-Dako, 2012. *Piliostigma reticulatum* (DC.) Hochst. Plant Resources of Tropical Africa 16. Fibres, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 371-375; PROTA Foundation., ISBN: 978-92-9081-481-8
18. Achigan-Dako, E.G., S. N'Danikou, R.S. Vodouhe, 2012. *Luffa cylindrica* L. Plant Resources of Tropical Africa 16. Fibres, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 314-318; PROTA Foundation., ISBN: 978-92-9081-481-8
19. N'Danikou, S., E.G. Achigan-Dako, 2012. *Corchorus aestuans* L.. Plant Resources of Tropical Africa 16. Fibres, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 96-99; PROTA Foundation., ISBN: 978-92-9081-481-8
20. N'Danikou, S., E.G. Achigan-Dako, L.P.A. Oyen, 2012. *Urena lobata* L. Plant Resources of Tropical Africa 16. Fibres, Edited by Martin Brink, Enoch Gbenato Achigan-Dako, 01/2012: pages 455-460; PROTA Foundation., ISBN: 978-92-9081-481-8.
21. Maundu P., Achigan-Dako E.G., Morimoto Y. 2009. Bioersivity of African vegetables. In: Shackleton C.M., Pasquini M.W., Drescher A.W. (Eds). African Indigenous Vegetables in Urban Agriculture. Earthscan, London, UK. pp. 65–104. ISBN 978-1-84407-715-1.
22. Achigan-Dako G.E. 2008. Phylogenetic and genetic variation analyses in cucurbit species (Cucurbitaceae) from West Africa: definition of conservation strategies. Cu villier Verlag, Göttingen, 154 p.
23. Achigan-Dako E.G., Vodouhè S.R. 2006. *Macrotyloma geocarpum* (Harms) Maréchal & Baudet. In: Brink, M. & Belay, G. (Editors). Plant Resources of Tropical Africa 1. Cereals and pulses. PROTA Foundation, Wageningen, Netherlands/Backhuys Publishers, Leiden, Netherlands/CTA, Wageningen, Netherlands, pp. 111-114. ISBN 90-5782-170-2.
24. Vodouhè S.R., Achigan-Dako E.G. 2006. *Digitaria exilis* (Kippist) Stapf. In: Brink, M. & Belay, G. (Editors). Plant Resources of Tropical Africa 1. Cereals and pulses. PROTA Foundation, Wageningen, Netherlands/Backhuys Publishers, Leiden, Netherlands/CTA, Wageningen, Netherlands, pp. 59-63. ISBN 90-5782-170-2.
25. Agustino, S., Mataya B., Senelwa K., Achigan-Dako E.G. 2011. Non-wood forest products and services for socio-economic development. A Compendium for Technical and Professional Forestry Education. The African Forest Forum, Nairobi, Kenya. 219 pp. ISBN 978-92-9059-294-5.
26. Achigan-Dako, E.G., Pasquini M.W., Assogba Komlan F., N'Danikou S., Dansi A., Ambrose-Oji B. 2010. Traditional Vegetables in Benin. Institut National des Recherches Agricoles du Bénin. Imprimeries du CENAP, Cotonou, 285 pp. ISBN 978-99919-334-43.
27. Schmelzer, G.H., Achigan-Dako E.G. and Bosch C.H. 2010. Medicinal plants of Tropical Africa. Conclusions and recommendations based on PROTA 11(1): 'Medicinal plants'. PROTA Foundation, Nairobi, Kenya, 148 pp. ISBN 978-38236-1531-6
28. Vodouhe, S.R., Attah-Krah K., Achigan-Dako E.G., Eyog-Matig O. Avohou H. (eds). 2007. Plant Genetic Resources and Food Security in West and Central Africa. Regional Conference. 26-30 April 2004. Bioersivity International, Rome, Italy, 365 pp. ISBN 978-92-9043-750-5.
29. Vodouhe S.R., Achigan-Dako E.G. (eds), 2004. Renforcement de la contribution du fonio à la sécurité

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alimentaire et aux revenus des paysans en Afrique de l'Ouest. Actes du séminaire régional sur le fonio, 19-22 Novembre 2001, Bamako, Mali. IPGRI-SSA, Nairobi, 71 pp. ISBN 92-9043-593-3.

30. Vodouhe S.R, Zannou A., Achigan-Dako E.G. (eds), 2003. Actes du premier atelier sur la diversité génétique du fonio (*Digitaria exilis* Stapf.) en Afrique de l'Ouest. Conakry, Guinée, 4-6 août 1998. IPGRI, Rome, Italy, 73 p. ISBN 92-9043-576-3

Other publications and communication

1. Assogba-Komlan F., Achigan E., Azagba J., Vodouhe R. 2005. Collecte et caractérisation préliminaire des ressources génétique du piment (*Capsicum annum* et *Capsicum frutescens*) au Centre-Bénin. In : Adjanohoun A., Bankole C., Agbo B., Igué K. Actes de l'Atelier Scientifique National 4. 14-17 décembre 2004, Abomey-Calavi, Bénin. Institut National des Recherches Agricoles du Bénin. pp. 56-65.
2. Achigan Dako G.E., Codjia JTC., Bokonon Ganta A.H. 2004. Dynamique de rongeurs dans les agrosystèmes du sud Bénin et analyse de l'influence de facteurs climatiques sur la densité des populations. In : Actes du séminaire-atelier sur la mammalogie et la biodiversité, Abomey-Calavi/Bénin, 30/10-18/11/2002, VZZ et RéRE, Eds. Mensah G. A., Sinsin B. et Thomassen E., ISBN:90-73162-70-x, ISSN:0924-5111, VZZ Rapportnummer: 2004-13. pp. 14-26.
3. Achigan Dako G.E., Codjia JTC., Bokonon Ganta A.H. 2004. Evaluation de quelques paramètres corporels pour l'identification des petits rongeurs du sud Bénin. In : Actes du séminaire-atelier sur la mammalogie et la biodiversité, Abomey-Calavi/Bénin, 30/10-18/11/2002, VZZ et RéRE, Eds. Mensah G. A., Sinsin B. et Thomassen E., ISBN:90-73162-70-x, ISSN:0924-5111, VZZ Rapportnummer: 2004-13. pp. 34-47.
4. Mensah GA, Assogbadjo A.E., Ekué M.R.M., Achigan Dako E.G. et Bokonon-Ganta A.H. 2004. Rôle culturel des rongeurs. In : Actes du séminaire-atelier sur la mammalogie et la biodiversité, Abomey-Calavi/Bénin, 30/10-18/11/2002, VZZ et RéRE, Eds. Mensah G. A., Sinsin B. et Thomassen E., ISBN:90-73162-70-x, ISSN:0924-5111, VZZ Rapportnummer:2004-13. pp 48-50.
5. Gaoue O.G., Achigan Dako E.G., Mensah G.A. 2004. Conservation ex situ des ressources biologique. . In : Actes du séminaire-atelier sur la mammalogie et la biodiversité, Abomey-Calavi/Bénin, 30/10-18/11/2002, VZZ et RéRE, Eds. Mensah G. A., Sinsin B. et Thomassen E., ISBN:90-73162-70-x, ISSN:0924-5111, VZZ Rapportnummer:2004-13. pp 223-231.
6. Vodouhe R.S., Achigan Dako G.E. & Adjakidje V. 2001. Observation de la diversité génétique des Egusi collectées au Bénin et au Togo. In: Agbo B.P., Isidore T.I., Adjanohoun A., Sagbohan J., Ganglo J., Bankolé C., Igué K., Matthes A. (eds), Actes 2 de l'Atelier Scientifique Sud et Centre, Institut National des Recherches Agricoles du Bénin, Niaouli, Bénin, 12-13 décembre 2001, pp. 53-61.
7. Detongnon J., Achigan E. 2000. Report on the plant genetic resources for food and agriculture program management in Benin. In: JMM Engels, R. Vodouhe, J Thompson, A. Zannou, E. Hehne & M. Grum (eds). Towards sustainable national plant genetic resources programmes. Policy, Planning and coordination issues. 10-18 May 2000, Zschortau-Germany. International Plant Genetic Resources Institute, Nairobi, Kenya. pp 116-120. ISBN 92-9043-484-8.

REFERENCES

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