YEDOMON ANGE BOVYS ZOCLANCLOUNON

Bioinformatician | Plant Genetics and Genomics

As a newly graduated Doctor of Philosophy in Plant Genetics and Genomics, my fervor lies in the exploration of plant, fungi, fish, and mammalian genomes to uncover their evolutionary significance and advantageous genetic traits. My goal is to contribute towards promoting biodiversity preservation as well as enhancing advancements in molecular plant breeding.

🎓 EDUCATION

2020 | 2023

Jeonbuk National University
Ph.D. in Crop Science and Biotechnology 📍 Jeonju, South Korea

Thesis: Genomic and phenotypic characterization of sesame germplasm for phylogenomics and breeding

2014 | 2016

University Cheikh Anta Diop
M.S. in Plant Pathology and Crop Protection 📍 Dakar, Senegal

Thesis: Characterization of downy mildew [*Sclerospora graminicola* (Sacc.) J. Schröeter] incidence and severity on 20 pearl millet [*Pennisetum glaucum* (L.) R. Br.] varieties and assessment of agronomic performance

2007 | 2012

University of Abomey-Calavi
B.Sc. Agricultural Pest Management 📍 Abomey-Calavi, Benin

Thesis: Toxicity of two plant powders as biopesticides in the management of *Callosobruchus maculatus* F. (Coleoptera: Chrysomelidae, Bruchinae) on two stored grain legumes

💻 RESEARCH EXPERIENCE

2018 | 2020

Graduate Research Assistant
Genomics Division, Department of Agricultural Biotechnology, National Institute of Agricultural Sciences

📍 Jeonju, South-korea

- Genome assembly annotation, and comparative analyses using *Sesamum* and *Fusarium* species.
- Identification of peroxidase and laccase enzymes related to the biosynthesis of lignans from sesame seed.
- Construction of a sesame core collection and identification of accessions with high oil, and lignans content

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Birth date: **January 27, 1990**
Native country: **Benin**

CONTACT INFO

✉ angez9914@gmail.com

🐙 github.com/Yedomon

🐦 twitter.com/AngeOmics

🌐 https://yedomon-site.netlify.app/

SKILLS

Coding

R • Python • Bash • Shiny • Snakemake • Nextflow

Wet Lab

Plant and fungi DNA and RNA extraction • Sequencing library preparation • PCR • RT-PCR

Dry Lab

Genome assembly • Genome annotation • Comparative genomics • Pan-genome analysis • Population genomics • QTL • GWAS

Languages

French : Native • English: Fluent • Korean: Intermediate

2014 | 2015

Graduate Research Assistant
Centre d'Etudes Régional pour l'Amélioration de l'Adaptation à la Sècheresse (CERAAS)

📍 Thies, Senegal

- Evaluation and mapping pearl millet disease incidence within Senegal agro-ecological areas.
- Identification of resistant genotypes as parental lines for millet breeding.

👨‍🏫 TEACHING EXPERIENCE

2021

Introduction to R Language for GIS application - Raster data session
Instructor of R and GIS data mining for the DAAD climapAfrica - Working group Climate change Animal and Plant Physiology and Stress. | Press release | Training material

📍 Remote

2020

Introduction to R Language for GIS application - Shapefile data session
Instructor of R and GIS data mining for the DAAD climapAfrica - Working group Climate change Animal and Plant Physiology and Stress. | Press release | Training material

📍 Remote

🎗 HONORS AND AWARDS

2014

In Country and in Region Scholarship for Master Science graduate Award
German Academic Exchange Service, Deutscher Akademischer Austausch Dienst (DAAD)

🤝 SOCIETY MEMBERSHIP

2020 | Present

International Society for Computational Biology: ISCB
Member

✋ VOLUNTEERING

2021 | Present

African Biogenome Project (AfricaBP) - Pilot Committee
Co-Chair of the Genome Annotation Sub-committee | Link

2022

African Biogenome Project (AfricaBP) - Pilot Committee
Co-organizer of the AfricaBP Workshop on Biodiversity Genomics Technologies and Infrastructures | Link

SELECTED PUBLICATIONS

2023 **Genomic and phenotypic characterization of sesame germplasm for phylogenomics and breeding**
PhD Thesis Document | Download
Zoclanclounon YAB

2023 **Genome-wide development of intra- and inter-specific transferable SSR markers and construction of a dynamic web resource for yam molecular breeding: Y2MD**
Preprint bioRxiv | doi: https://doi.org/10.1101/2023.03.09.531889
Moussa D, **Zoclanclounon YAB**, Mboup PA, Diouf D, Malédon E, Rivallan R, Chair H and Dossa K

2023 **Haplotype-resolved telomere-to-telomere assembly of the African catfish (*Clarias gariepinus*) provides insights for terrestrial adaptation of air-breathing catfishes**
Preprint bioRxiv | doi: https://doi.org/10.1101/2023.03.23.533919
Nguinkal JA, **Zoclanclounon YAB**, Brunner RM and Goldammer T

2022 **Characterization of peroxidase and laccase gene families and *in silico* identification of potential genes involved in upstream steps of lignan formation in sesame**
MDPI Life | doi: https://doi.org/10.3390/life12081200
Zoclanclounon YAB, Rostás M, Chung N-J, Mo Y, Karlovsky P and Dossa K

2022 **A chromosome-level genome of the Korean cultivar *Sesamum indicum* var. Goenbaek**
Data Set | NCBI Project: PRJNA810203 | doi: https://doi.org/10.5281/zenodo.6350880
Zoclanclounon YAB, Kim J-G, and Lee K

2021 **A genome assembly of the sesame wilt disease pathogen *Fusarium oxysporum f.sp. sesami***
Data Set | NCBI Project: PRJNA667197
Zoclanclounon YAB, Jung H-J, Kim S-U, Yoon Y, Choi H-W, Kim TH and Lee K

REFEREES

Youngjun Mo, Ph.D.
Assistant Professor at Department of Crop Science and Biotechnology, Jeonbuk National University, Korea | **yjmo@jbnu.edu**

Ghislain Kanfany, Ph.D.
Assistant Professor at Gaston Berger University, UFR S2ATA, Saint-Louis, Senegal | **ghislain.kanfany@ugb.edu.sn**

Komivi Dossa, Ph.D.
Researcher at CIRAD, UMR AGAP Institut, Guadeloupe, France. | **komivi.dossa@cirad.fr**