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EDUCATION

- 2012** **PhD in Molecular Biology, Biochemistry and Microbiology**, University of Abomey Calavi, Benin.
Thesis topic: Antibiotic resistance and virulence factors production of *Staphylococcus aureus* strains isolated from clinical and food samples.
- 2008** **Master in Biodiversity and microbial and parasitic interactions**, University of Montpellier 2 (France)
Master of Public Health in Medical and Veterinary Entomology, University of Abomey-Calavi (Benin).
Thesis topic: Study of the infection rate and resistance to permethrin of the members of *An. gambiae* complex in dry season: prelude to an Indoor Residual Spraying (IRS) in the commune of Bacoumana, Mali.
- 2006** **Master of Science in Biochemistry**, University of Abomey-Calavi (Benin).
- 2005** **Bachelor of Science in Biochemistry**, University of Abomey-Calavi (Benin).
- 2004** **DUES 2 diploma of Chemistry, Biology and Geology**, (Intermediate degree delivered by the Sciences and Technology Faculty) University of Abomey-Calavi (Benin).

RELEVANT INTERESTS SKILLS

- Medical entomology (particularly molecular aspect the resistance to insecticides)
- Molecular biology
- Biochemistry
- Microbiology
- Parasitology
- Bioinformatics

RESEARCH EXPERIENCE

- July 2015-Present** Assistant Professor, Department of Biochemistry and Cellular Biology, University of Abomey-Calavi (Benin).
- February 2016-
January 2017** Post-Doctoral position, Institut für Medizinische Mikrobiologie, Immunologie und Parasitologie (IMMIP)/Universitätsklinikum Bonn (Germany). **Funded by Islamic Development Bank**

- 2009 –July 2015** Assistant and Research assistant, Department of Biochemistry and cellular Biology, University of Abomey-Calavi (Benin).
- October 2009- Jun 2011** Probationer at “Programme national de lutte contre les Maladies à transmission vectorielle” (vector-borne diseases transmit program), Ministry of Health, Benin.
- Catching blackflies
 - Morphological identification of blackflies
 - Dissection of blackflies
- January – Jun 2008** Probationer, Malaria Research and training center (MRTC), University of Bamako, Mali:
- Catching of mosquitoes
 - Morphological identification of mosquitoes
 - Polymerase Chain Reaction (PCR) for species and Kdr-type mutation diagnostic
- November 2007** Practical’s at « Centre international de la Recherche sur l’Elevage en zone Subhumide (CIRDES) » and « Institut de la Recherche en Sciences de la Santé », Burkina Faso : (06-18 November 2007)
- Malaria, trypanosomosis and onchocercosis vectors Bio ecology
 - Malaria, trypanosomosis and onchocercosis Vectors control.
 - Enzyme Linked ImmunoSorbent Assay (ELISA)

Teaching experience

- July 2015- Present:** Assistant professor in the department of Biochemistry and Cellular Biology at the University of Abomey-Calavi
- 2009- July 2015:** Assistant of research in Molecular Biology in charge of practices at the University of Abomey-Calavi
- 2009- Present:** Lecturer in Molecular biology (temporary basis) at IRGIB-Africa.

Publications

- Ahouandjinou H, Baba-Moussa F, Gbaguidi B, **Sina H** et al. (2016) Antibiorésistance et facteurs de virulence des souches *d’Escherichia coli* isolées des carcasses bovines du Bénin. **European Journal of Scientific Research**; 12(33). 493-507
DOI:10.19044/esj.2016.v12n33p493
- Ahouandjinou H, Baba-Moussa F, **Sina H**, (2016) Variability and antibiotics resistance of *Staphylococcus sp* flora among the cattle carcasses. **International Journal of Science, Environment and Technology**, 5(5): 3275-3288

- Taale E, Savadogo A, **Sina H** et al. (2016) Searching for bacteriocin pln loci from *Lactobacillus spp.* isolated from fermented food in Burkina Faso by molecular methods. **International Journal of Applied Biology and Pharmaceutical Technology**; 7(3): 86-94
- Nounagnon SM, N'tcha C, **Sina H** et al. (2016) Antimicrobial activities of *Combretum micranthum* extracts on *Staphylococcus aureus* strains isolated from skin infections and some reference strains. **Asian Journal of Plant Science and Research**, 6(4): 40-47
- Moussé W, Adjanohoun A, **Sina H** et al. (2016) *Klebsiella pneumoniae* isolated from street foods: characterization for extended spectrum β -lactamases production and antibiotics resistance profile. **Biochemistry and Biotechnology Research**, 4(2): 27-37
- Christine N'tcha, Sina H et al. (2016) Probiotic properties of lactic acid bacteria isolated from a Beninese traditional beer's ferment. **International Journal of Applied Biology and Pharmaceutical Technology**; 7(2): 314-330
- N 'tcha C, Kayodé PAP, Adjanohoun A, **Sina H** et al. (2016) Diversity of lactic acid bacteria isolated from "kpètè- kpètè" a ferment of traditional beer " tchoukoutou " produced in Benin. **African Journal of Microbiology Research**; 10(16): 552-564. DOI:10.5897/AJMR2016.7845
- Apata A, Attien P, Traore GS, Sina H et al. (2016) Antimicrobial resistance of potential pathogenic strains isolated from eggs produced by informal farms and sold in Abidjan, Ivory Coast. **African Journal of Microbiology Research**; 10(16). 542-551 DOI:10.5897/AJMR2016.7955
- Moussé W, Noumavo PA, Chabi NW, **Sina H** et al. (2016) Phenotypic and Genotypic Characterization of Extended Spectrum β -Lactamase *Klebsiella pneumoniae* and Fluorescent *Pseudomonas spp.* Strains from Market Garden Products and Their Watering Water in Benin (West Africa). **Food and Nutrition Sciences**; 7(3):192-204 DOI:10.4236/fns.2016.73021
- Gomina M, Aïkou N, **Sina H** et al. (2016) Glycemic Index and Glycemic Load of Four Local Alcoholic Drinks of Benin. *International Journal of Biochemistry Research & Review*, 11(2) :1-9.
- Dah-Nouvlessounon D, Adoukonou-Sagbadja H, Diarrassouba N, Adjanohoun A, Noumavo PA, **Sina H** et al. (2016) Morpho-agronomic variability of three kola trees accessions [*Cola nitida* (Vent.) Schott et Endl., *Cola acuminata* (P. Beauv.) Schott et Endl., and

- Garcinia kola Heckel] from Southern Benin. **Genetic Resources and Crop Evolution**; 63(3). DOI:10.1007/s10722-015-0362-z
- Vodounon CA, Abramova ZI, Skibo YV, Reshetnikova ID, Akpona SA, **Sina H** et al. (2015), Nuclease Activity Associated with Secreting Granules by Lymphocytes in Patients with Bronchial Asthma. **Biology and Medicine**; 8(1). DOI:10.4172/0974-8369.1000264
- Moussé W, **Sina H**. et al. (2015) Identification of Extended-Spectrum b-Lactamases Escherichia coli Strains Isolated from Market Garden Products and Irrigation Water in Benin. **BioMed Research International** Volume 2015(2). DOI:10.1155/2015/286473
- Dah-Nouvlessounon D, Adjanohoun Adolphe, **Sina H** et al. (2015) Nutritional and Anti-Nutrient Composition of Three Kola Nuts (Cola nitida, Cola acuminata and Garcinia kola) Produced in Benin. **Food and Nutrition Sciences**; 6. DOI:10.4236/fns.2015.615145
- Salami HA, Aly D, Adjanohoun A, Yallou C, **Sina H** et al (2015): Biodiversity of local varieties of corn cultivation among farmers in Benin. **Journal of Agricultural and Crop Research**, 3(6), 85-99
- Dah-Nouvlessounon D, Baba-Moussa F, Adjanohoun A, **Sina H** et al. (2015): Phytochemical screening and biological activities of *Garcinia kola* (bark, leaves and seeds) collected in Benin. **African Journal of Microbiology Research**, 9(28), 1716-1727, DOI: 10.5897/AJMR2015.7611
- Dah-Nouvlessounon D, Adoukonou-Sagbadja H, Diarrassouba N, **Sina H** et al. (2015): Phytochemical Analysis and Biological Activities of Cola nitida Bark. **Biochemistry Research International**, Volume 2015, Article ID 493879, 12 pages <http://dx.doi.org/10.1155/2015/493879>
- Dah-Nouvlessounon D, Adoukonou-Sagbadja H, Diarrassouba N, **Sina H** et al. (2015): Antimicrobial, antioxidant, cytotoxic activities and phytochemical assessment of *Cola acuminata* used in Benin. **International Journal of Pharmacy and Pharmaceutical Sciences** 7 (6), 102-109
- Agbodjato AN, Noumavo PA, Baba-Moussa F, Salami HA, **Sina H** et al. (2015): Characterization of Potential Plant Growth Promoting Rhizobacteria Isolated from Maize (*Zea mays* L.) in Central and Northern Benin (West Africa). **Applied and Environmental Soil Science** Volume 2015, Article ID 901656, 9 pages <http://dx.doi.org/10.1155/2015/901656>
- Didagbé OY, Houngnandan P, **Sina H**, et al. (2014): Response of groundnut (*Arachis hypogaea* L.) to exogenous *Bradyrhizobium sp* strains inoculation and phosphorus supply in two

- agro-ecological zones of Benin, West Africa. **Journal of Experimental Biology and Agricultural Sciences** 2(6): 623-633.
- Chabi Sika K, **Sina H**, et al. (2014): Antimicrobial activity of *Anacardium occidentale* L. leaves and barks extracts on pathogenic bacteria. African journal of microbiology research 8(25): 2458-2467.
- Attien P, **Sina H**, et al. (2014): Mass Spectrometry and Multiplex Antigen Assays to Assess Microbial Quality and Toxin Production of *Staphylococcus aureus* Strains Isolated from Clinical and Food Samples. BioMed Research International; Volume 2014 (ID 485620).
- Alibayov B, Baba-Moussa L, **Sina H**, et al. (2014): *Staphylococcus aureus* mobile genetic elements. **Molecular Biology Reports** DOI 10.1007/s11033-014-3367-3.
- Sangare MM, **Sina H**, et al. (2014): *Évaluation de la dose efficace de l'extrait aqueux de Gomphrena celosioides* face à une hépatopathie induite par le tétrachlorure de carbone. Phytoterapia DOI 10.1007/s10298-014-0845-7
- Sina H**, et al. (2013): Variability of antibiotic susceptibility and toxin production of *Staphylococcus aureus* strains isolated from skin, soft tissue, and bone related infections. BMC Microbiology, 13(1):188.
- Attien P., **Sina H.**, et al. (2013): Prevalence and antibiotic resistance of Staphylococcus strains isolated from meat products sold in Abidjan streets (Ivory Coast). African Journal of Microbiology Research, 7(26): 3285-3293.
- Sangare MM, **Sina H**, et al. (2012): Etude ethnobotanique des plantes hépatotropes et de l'usage traditionnel de *Gomphrena celosioides* Mart. (Amaranthaceae) au Bénin. International Journal of Biological and Chemical Sciences, 6(6): 5008-5021.
- Baba-Moussa L, **Sina H**, et al. (2011): Staphylococcal Panton-Valentine Leucocidin as a Major Virulence Factor Associated to Furuncles. PLoS ONE 6(10): e25716. doi:10.1371/journal.pone.0025716.
- Ckibo Y.V, Vodounon A.C., Moporo M.B., Koube Bocco S.M., **Sina H.**, et al. (2012) : Adhesion Force of T lymphocytes in the pathogenesis of patients with light and severe Bronchial and atopic asthma. International Journal of Biological and Medical Research, 3(3): 2138-2146.
- Sina H.**, et al. (2011): Characterization of Staphylococcus aureus isolated from street foods: Toxin profile and prevalence of antibiotic resistance. Journal of Applied Biosciences, 46: 3133– 3143.

Sina H., et al. (2011): Antibiotic susceptibility and toxins production of *Staphylococcus aureus* isolated from clinical samples from Benin. African Journal of Microbiology Research, 5(18): 2797-2803.

Language experiences and other skills

- French: Native speaker level (procedural language)
- English: Fluent
- Driving license: private car

Informatics

Microsoft Office (Word, Excel, Power point), internet, ENDNOTE, GRAPHPAD PRISM, EPIINFO, SPSS, R.

It is certified that all information given by me above is true to the best of my knowledge.



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