

CURRICULUM VITAE

Prof.dr Mamoudou H. DICKO, PhD

Full Professor of Food Biochemistry and Biotechnology

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CIVIL DATA

Family Name : DICKO
First names : Mamoudou Hama
Date and place of birth : 31/12/1969 at DORI (Burkina Faso)
Marital status : Married, 5 children (4 ♀ + 1 ♂)
Nationality: Burkinabè
Highest Degrees :
- PhD in Biotechnology, Food Technology and Nutrition (Wageningen Agricultural University, The Netherlands, 2005)
- Doctorate of Science (Dsc) in Biochemistry and Food Enzymology (Université de Ouagadougou, Burkina Faso, 1999)
Expertise : Analytical Biochemistry, Enzymology, Food Technology, Nutritional Biochemistry, Industrial Biotechnology, Functional foods, Bioinformatics, General Food security management strategies, Research project management, General manager of higher education institutions.
Current Position: **Full Professor of Biochemistry/Biotechnology** (CAMES) at Université Joseph Ki-Zerbo (*ex-Université de Ouagadougou*), *Exceptional Class*.
Scientific visibility and impact: H-index= 22 (November 2020). Head of the Laboratory of Food Biochemistry, Enzymology, Industrial Biotechnology and Bioinformatics, UFR-SVT, Université de Ouagadougou. Coordinator of alumni of International Foundation for Science (IFS) in Burkina Faso. Scientific adviser of IFS. Vice-president of Association des Œuvres Universitaires de la Francophonie (AOUF).
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ACADEMIC BACKGROUND

■ **PhD in Biotechnology, Food Technology, and Nutrition.** Laboratories of Biochemistry and Food Chemistry, ATV, Wageningen Agricultural University, The Netherlands. PhD thesis title: "Endogenous phenolics and starch modifying enzymes as determinants of sorghum for food use in Burkina Faso". PhD defended on June 1st 2005. **Promoters:** Prof.dr.ir. Alphons. G. J. VORAGEN, Prof.dr.ir. Harry GRUPPEN and Prof.dr. Willem G. H. van BERKEL.

■ **Doctorate of Science (Dsc)** in Biochemistry and Enzymology. Université de Ouagadougou, Faculté des Sciences et Techniques, Burkina Faso. Thesis title: "Purification and physicochemical properties of polysaccharide degrading enzymes from *Curculigo pilosa*, *Gladiolus klattianus* and *Boscia senegalensis*". **Promotor** Pr.dr. Alfred S. TRAORE. Thesis defended on June 25th 1999.

■ **Master of Philosophy (MPhil) in Biochemistry** (« *Diplôme d'Etudes Approfondies en Biochimie, DEA* »). Thesis title: "Study on amylase activities from *Boscia senegalensis* (Pers.) Lam. ex. Poir ". **Leader of promotion (Major)**. Université de Ouagadougou, Burkina Faso. Thesis defended on January 29th 1996.

■ **Master of Science (Msc) in Biochemistry (Maîtrise)**. Certificat of Molecular and Physichemical Biology (C3), and Certificate of Chemistry of pharmacodynamic and natural compounds (C4). **Leader of promotion (Major)**. Université de Ouagadougou, Burkina Faso. June 1994.

■ **Bachelor of Science (Bsc) in Biochemistry (Licence)**. Certificate of Metabolic and Structural Biochemistry (C1) and Certificate of Organic Chemistry (C2). **Leader of promotion (Major)**.. FAST, Université de Ouagadougou, Burkina Faso. June 1993.

■ **Degree of General study in Biological Chemistry** (Diplôme d'Etudes Universitaires générale en Chimie Biologique). **Leader of promotion (Major)**. Université de Ouagadougou, Burkina Faso. June 1992.

■ **Baccalaureat « D » (E level)**. Biology and Mathematics. Lycée Philippe Zinda Kaboré, Ouagadougou, Burkina Faso. June 1990.

OTHER FORMAL TRAININGS

1. Certificate of participation. Workshop for west African members of parliament. African observatory of Science Technology and Innovation (AOSTI); May 2014, Abidjan Côte d'Ivoire.
2. Certificate of participation. Workshop « Improving food and nutrition outcomes, the role of universities » Wageningen, The Netherlands, 18-22 september 2012 ; CTA ; Agro Business Park 2 ; 6708 PW Wageningen, The Netherlands.
3. Certificate of participation « Financial status of state public enterprise ». Ministry of Economy and Finance. ENAREF, May 2010, Ouagadougou, Burkina Faso.
4. Certificate of participation « Elaboration budgets of state public enterprise and public command administration and delegation. Ministry of Economy and Finance, Bobo-Dioulasso, Octobre 2010.
5. Certificate of participation of Inception Workshop on Increasing Food Supply and Reducing Hunger. Wageningen, The Netherlands, 18-21 September 2012, CTA Headquarters, Agro Business Park 2; 6708 PW Wageningen, The Netherlands,
6. Certificate of Evaluation and Management of Biotechnological risks with GMO. Agence Nationale de Biosécurité. Ministry of Higher Education. January 2010.
7. Certificate of Top Management in Africa. The issues of the delegation of competence in the businesses in African institutions. TMA/COGEFI, Dakar/Saly, Sénégal. December 2009.
8. Certificate of preparation and conceptualization of research project, phase II. United Nation University/International Foundation for Science, Accra, April 2008.
9. Certificate in Protection of Intellectual properties in Science. ISESCO/COMSTech, Ouagadougou July 2008.
10. Certificate of preparation and conceptualization of research projects, phase I. IFS, Kampala, Nairobi. October 2007.
11. Certificate of training on diagnostic, restructuration and updating of industries in West Africa. UEMOA/ONUUDI, Ouagadougou. September 2007.
12. Certificate of « HIV/AIDS and West Africa development ». LAPNAR, Ghana, (nov. 2005)
13. Certificate of Bioinformatics. Institut Pasteur, Dakar, Sénégal. May 2004.
14. Certificate of ITC and Nutrition. Swedish Agric. University. Uppsala, Sweden. April 2004 and University of Peradenya, Kandy, Sri-Lanka. 28 nov.-15 December 2004.
15. Certificate of Laboratory quality management. ISO-CEI-17025. Ouagadougou, Burkina Faso. October 2003.
16. Certificate of Protein engineering in agro-biotechnology. Wageningen, The Netherlands. October 2001.

17. Certificate of Reaction kinetics in Food Science. Wageningen, The Netherlands. November 2001.
18. Certificate of Mass Spectrometry in Biology. University of Amsterdam, The Netherlands. November 2000.
19. Certificate of Theory and Practice of Nuclear Magnetic Resonance (NMR). Université de Ouagadougou, Burkina Faso. November 1999.
20. Certificate of "Fluency in English", 2000; Wageningen University Language Center. The Netherlands
21. Certificate of Advanced English Academic Writing, Wageningen University Language Center. The Netherlands. June-August, 1997.

LABORATORY MANAGEMENT

Director of the Laboratory of Biochemistry, Biotechnology, Food Technology and Nutrition (LABIOTAN), Research Center for Biological, Food and Nutritional Sciences (CRSBAN).

Objective of the laboratory: perform research of fundamental and industrial interest focusing on subjects related to Food Biochemistry and Biotechnology and also support local agro-food enterprises for the optimization or innovation of their technological processes.

The laboratory has ambitions to do research and train Master and PhD students. Research activities focus on the following three main topics:

Topic 1. Food/Nutritional Biochemistry and Fundamental Enzymology

- Biochemical and technological characterization of varieties of cereals, beans, fruits and vegetables commonly consumed in Africa, and particularly in Burkina Faso;
- Physicochemical analysis of foods and updating of tables of food composition (carbohydrates, proteins, lipids, vitamins, minerals, etc);
- Study of enzymic and non-enzymic (Maillard reaction) browning of local foods;
- Identification of novel sources of enzymes from microbes and plants;
- Purification and characterization of food enzymes (amylases, peroxidases, lipases, etc.) and other food proteins;
- Bioprospection for bioactive compounds (phenolic antioxidants for nutritional purposes) of fruits, vegetables and cereals to identify nutraceuticals and functional foods;
- Optimization of the production of food enzymes by micro-organisms using the experimental design statistical method (Yates and Taguchi).

Topic 2. Food Technology and Industrial Biotechnology

- Extraction and preparation of natural food dyes (anthocyanins, flavonoids, tannins, etc.) from African plants;
- Bio-depollution of industrial effluents by enzymic catalysis using oxidases (peroxidases, polyphenol oxidase, etc) and lipases;
- Research of novel sources of biodiesel in Burkina Faso: identification and characterization of oleaginous plants as novel sources of biodiesel. Lipids optimization as biodiesel by chemical or enzymic trans-esterification using lipases (interfacial catalysis);
- Improvement of the nutritional quality and energetic value of infant porridges and foods of persons living with HIV/AIDS by combination of cereals, beans and legumes;
- Assistance of small scale food enterprises and technical advice of food industries.

Topic 3. Bioinformatics and Structural Biology

- Development of database of plant foods of African interest;
- Collaboration with specialized groups (EBI, Sanger, EMBL, Tigr, usda-ars, etc) for the annotation of the genes of plants of African interest such as rice, sorghum, corn, soybean, cowpea, etc.
- Identification of industrial enzymes among ESTs (expressed sequence tags) from African plants for which the genome sequences are available;
- Modeling of three-dimensional structures of proteins/enzymes and comparison of sequences;
- Proteomic and genomic: collaboration with specialized centers on mass spectrometry analysis of proteins for the analysis and interpretation of mass spectra (MALDI-TOF-MS, PSD-MALDI, LC-MS, etc), and electrophoresis data.

Supervision of Master and PhD students

Supervision of students (direction and co-direction)

Defended PhD: 11 (5 ♀ + 6 ♂) **Current PhD: 6** (4 ♀ + 2 ♂)

Defended Msc: 35 (20 ♀ + 15 ♂), **Current Msc 15** (8 ♀ + 7 ♂),

SELECTED PUBLICATIONS (H-index = 24, Harzing/PoP)

Contributions in peer reviewed and impacted scientific journals

1. Ella W.R. Compaoréa, Michel Eric W. Kiemdéa, Tiatou Souhob*, Ousmane Ouedraogo, Virginio Pietra, Koffi Agbokoua, Noel Zagred, Kou'Santa Emile Amouzoub, **Mamoudou H. DICKO** (2021) Discontinuation of healthcare and factors associated to mortality among severe acute malnourished children under five years in healthcare and nutritional care settings. *Clinical Nutrition ESPEN*. Elsevier, 43, 501-505. <https://doi.org/10.1016/j.clnesp.2021.02.013>
2. Yérobessor Dabiré, Namwin SiourimèSomda , Clarisse S. Compaoré, Iliassou Mogmenga, Marius K. Somda, Aboubakar S. Ouattara, Mamoudou H. Dicko, Jerry O. Ugwuanyi, Lewis I. Ezeogu, Alfred S. Traoré (2021) Molecular screening of bacteriocin-producing *Bacillus* spp. isolated from *Soumbala* , a fermented food condiment from *Parkia biglobosa* seeds. *Scientific African* (Elsevier) 12 (2021) e00836. DOI : <https://doi.org/10.1016/j.sciaf.2021.e00836>
3. Kiessoun Konaté, Abdoudramane Sanou, Raïssa R. R. Aworet-Samseny, Fatiha Benkhalti, Oksana Sytar, Marian Brestic, Alain Souza, and **Mamoudou Hama Dicko** (2021) Safety Profile, In Vitro Anti-Inflammatory Activity, and In Vivo Antiulcerogenic Potential of Root Barks from *Annona senegalensis* Pers. (Annonaceae). *Evidence-Based Complementary and Alternative Medicine*. <https://doi.org/10.1155/2021/4441375>. Article ID 4441375. 1-12.
4. Inoussa KY, Charles PARKOUDA, Marius K. SOMDA, Bréhima DIAWARA and **Mamoudou H. DICKO** (2021) Optimization of Poultry Feed Formulation Using Experimental Design Methodology. *International Journal of Poultry Science*. 20, 59-66. <https://dx.doi.org/10.3923/ijps.2021.59.66>
5. Christophe Dabiré, Abdoulaye Sérémé, Hermann Pananditigri, Abdoudramane Sanou, W. D. B. Aimée Guissou, **Mamoudou H. DICKO** (2021). Trace Metal Elements (Pb, Cd and As), 15N Nitrogen and Phosphorus Isotopes Accumulation in Three Varieties of Tomato from Conventional and Agro-Ecological Farming Systems in Burkina Faso. *Food and Nutrition Sciences*, 2021, 12, 194-205. <https://doi.org/10.4236/fns.2021.122016>
6. Roger DAKUYO, Kiessoun KONATE, Hemayoro SAMA, Abdoudramane SANOU, Kabaké KABORE, Mamounata DIAO, Crépin Ibingou DIBALA and **Mamoudou H. DICKO** (2020) Assessment of onions contamination by pesticides residues and characterization of market gardeners' cultural practices in the region of Boucle du Mouhoun (Burkina Faso). *Int. J. Biol. Chem. Sci.* 14(9): 3097-3109. <https://dx.doi.org/10.4314/ijbcs.v14i9.10>
7. Anderson F. Konkobo^{1,2}, Mamounata Dia^{1*}, Paul W. Savadogo^{2,3}, Jean Diarra⁴ and Mamoudou H. Dicko (2021) Comparative study of the effects of Herbal and chemical Coagulants in the clarification of raw water. *African Journal of Agricultural Research*. Vol. 17(4), pp. 532-541, April, 2021. <https://dx.doi.org/10.5897/AJAR2019.14554>
8. Konaté K, Sanou DO, Santara B, **Mamoudou Hama DICKO** (2020) Contribution to the improvement of cotton seed storage at the new textile and cotton industrial company (SN-CITEC) in Bobo-Dioulasso in Burkina Faso. *Int J Agric Sc Food Technol* 6(2): 190-194. DOI: <https://dx.doi.org/10.17352/2455-815X.000073>
9. Inoussa KY, Charles PARKOUDA, Marius K. SOMDA; Bréhima DIAWARA; **Mamoudou H. DICKO** (2020) Caractéristiques physicochimiques de quelques matières premières utilisées dans la formulation des aliments pour volaille au Burkina Faso. *Journal of Applied Biosciences* 151: 15598 – 15604. <https://doi.org/10.35759/JABs.151.8>.
10. Leguet GANOU, Clarisse S. COMPAORE, Salamata TIENDREBEOGO, Fidèle W. TAPSOBA, **Mamoudou H. DICKO** (2020) Physicochemical and microbiological quality and acceptability of six formulations of Saba senegalensis pulp nectar. *Science et Technique. Série Sciences Naturelles et Agronomie*. Vol. 39, n° 2 (2). 129-149. ISSN 1011-6028.
11. Pingdwindé Marie Judith SAMADOULOUGOU-KAFANDO, Donatien KABORE¹, Charles PARKOUDA, Mamadou SANOU, Georges ZONGO, Souleymane ZONGO, **Mamoudou H. DICKO**, Hagrétou SAWADOGO-LINGANI (2020) Development of canned fermented mangoes and fermented mango nectar: technology, physicochemical characteristic and microbiological quality. *Science et Technique. Série Sciences Naturelles et Agronomie*. Vol. 39, n° 2 (2). 109-128. ISSN 1011-6028.
12. Edwige Bahanla OBOULBIGA, Charles Parkouda, Boubacar Savadogo, Aimée W. D. B. Guissou, Korotimi Traore, Alfred S. TRAORE, Hagrétou Sawadogo-Lingani and **Mamoudou H. DICKO** (2020) Changes in physicochemical properties and bioactive compounds of tomato pulp submitted to different processing techniques. *African Journal of Food Science*. 14, 330-335. <http://dx.doi.org/10.5897/AJFS2020.1998>
13. Elisabeth R. OUEDRAOGO, Crépin I. DIBALA, Kiessoun KONATE, Jean DIARRA et **Mamoudou H. DICKO** (2020). Study of the phenomenon of mud increase on the lamellate decanter of the station of treatment of water of Paspanga in Burkina Faso. *Int. J. Biol. Chem. Sci.* 14(2): 364-377, DOI: <https://dx.doi.org/10.4314/ijbcs.v14i2.5>.

14. Salamata TIENDREBEOGO, Leguet GANOU, Clarisse S. COMPAORE, Fidèle W. TAPSOBA and **Mamoudou H. DICKO** (2020) Biochemical composition of *Saba senegalensis* fruits from Burkina Faso. African Journal of Food Science. Vol. 14, 322-329, November 2020. <http://dx.doi.org/10.5897/AJFS2020.1992>
15. Kagambega Windmi, Lassina Ouattara, Crépin I. Dibala, Judith N. Semporé, **Mamoudou H. DICKO** (2020) Determination of phenolic compounds and evaluation of the antioxidant properties of four plants from Burkina Faso. International Journal of Biosciences. Vol. 17, No. 1, p. 95-105, 2020. <http://dx.doi.org/10.12692/ijb/17.1.95-105>.
16. Compaore Wendinpuikondo Raketa Ella, Koffi Apéali Wassiou Agbokou, Ousmane Ouedraogo, Tiatou Souho, Bouraima Mouawiyatou, Pietra Virginio, Wend-Lassida Michel Eric Kiemde, Marie Noel Zagre, Sabiba Kou'Santa Emile, Amouzou, Meda Nicolas, **Mamoudou H. DICKO** (2020) Knowledge and Attitudes Regarding Exclusive Breastfeeding Among Mothers of 0-23 Months Children in Public Healthcare Centre in Togo. Central African Journal of Public Health. 6(2): 66-72. <http://dx.doi.org/10.11648/j.cajph.20200602.13>
17. Abdoudramane SANOU, Kiessoun KONATE, Hemayoro SAMA, Roger DAKUYO, Kabakdé KABORE, Mamounata DIAO, Crépin I. DIBALA and **Mamoudou H. DICKO** (2020). Cultural practices and pesticides contamination level of tomato in two gardening sites in the region of Boucle du Mouhoun, Burkina Faso. African Journal of Agricultural Research. 16, 1334-1341. <http://dx.doi.org/10.5897/AJAR2020.14977>
18. Edwige N. ROAMBA, Crépin I. DIBALA, Marcel D. BENGALY, Mamounata DIAO, Kiessoun KONATE and **Mamoudou H. DICKO** (2020) Evaluation of the nutritional and antioxidant potentialities of *Capparis corymbosa*. African Journal of Food Science. 14, 201-208. <http://dx.doi.org/10.5897/AJFS2020.1977>.
19. Crépin I. Dibala, Raymond P. Barry, Kiessoun Konaté and **Mamoudou H. DICKO** (2020) Comparative study of the phenolic compounds of four varieties of sorghum (*Sorghum bicolor* (L.) Moench) cultivated in Burkina Faso. world journal of pharmacy and pharmaceutical sciences. volume 9, issue 3, 5-17. <http://dx.doi.org/10.20959/wjpps20203-15575>
20. Yérobessor Dabiré, Iliassou Mogmenga, Marius K. Somda, Jerry O. Ugwuanyi, Lewis I. Ezeogu, **Mamoudou H. DICKO** and Alfred S. Traoré (2020) Production technique, safety and quality of *soumbala*, a local food condiment sold and consumed in Burkina Faso. Afr. J. Food Sc. 14, 38-52, <http://dx.doi.org/10.5897/AJFS2019.1891>
21. Compaore Wendinpuikondo Raketa Ella, Ouedraogo Ousmane, Souho Tiatou, Nikiema Philippe Augustin, Virginio Pietra, Ellahi Basma4, Amouzou Sabiba Kou'santa Emile, Meda Nicolas, **Mamoudou H. DICKO** (2020) Evaluation of the Effectiveness of Cost-free Nutrition Programme on Children in Reo Health District, Burkina Faso. International Journal of Pharmaceutical Research & Allied Sciences, 2020, 9, 24-33. www.ijpras.com
22. Pingdwindé Marie Judith Samadoulougou-Kafando, Donatien Kaboré, Abel Tankoano, Diarra Compaoré-Séréme, Passinguemsin Alice Sonia Tiendrebeog, **Mamoudou H. DICKO**, Hagretou Sawadogo-Lingani (2019). Isolation, characterization and identification of lactic acid bacteria with antimicrobial activities found in fresh pulp of tomatoes from Ouagadougou, Burkina Faso. International Journal of Biosciences. 15, 130-146. <http://dx.doi.org/10.12692/ijb/15.5.130-146>.
23. Mamounata DIAO, Ramatou Hawan DEMBELE, Kiessoun KONATE et **Mamoudou H. DICKO**. (2019). Etude comparative des peroxydases de dix (10) plantes supérieures couramment rencontrées au Burkina Faso. International Journal of Biological and Chemical Sciences. 13(6) : 2533-2545. DOI: <https://dx.doi.org/10.4314/ijbcs.v13i6.9>
24. Ousmane Ouedraogo, Ella WR Compaore, Sabiba KE Amouzou, Augustin N Zeba & **Mamoudou H. DICKO**, (2019). Determination and Characterization of Women, Infants, and Young Children's Dietary Diversity in Agricultural Mitigation Period of Burkina Faso. : Journal of Nutrition and Food Security; 4(4); pp 279-292; eISSN: 2476-7425 pISSN: 2476-7417
25. Ousmane OUEDRAOGO, Ella W. R. COMPAORE, Sabiba K. E. AMOUZOU, **Mamoudou H. DICKO** (2019). Effect of Agricultural Periods on Household's Food Consumption Habits: Burkina Faso Centre-West Region Case. EAS J Nutr Food Sci, 1(2) pp 24-32; ISSN: 2663-1873 (Print) & ISSN: 2663-7308.
26. Ousmane OUEDRAOGO, Ella Wendinpuikondo Raketa COMPAORE, Sabiba Kou'santa Emile AMOUZOU, **Mamoudou H. DICKO** (2019). Determination and characterization of women, infants and young children dietary diversity in period of Burkina Faso agricultural wedding. International Journal of Advanced Educational Research, 4(2), pp 30-38; ISSN: 2455-6157. <https://dx.doi.org/10.22271/educationjournal>
27. Ousmane Ouedraogo, Ella W. R. Compaore, Sabiba K. E. Amouzou, Augustin N. Zeba, **Mamoudou H. DICKO** (2019). Household's Food Consumption Profile during Agricultural Mitigation Period: Burkina Faso Centre-West Region Case. JNFS, 4(4), 279-292. : URL: <http://jnfs.ssu.ac.ir/article-1-209-en.html> eISSN: 2476-7425; pISSN: 2476-7417 JNFS 2019; 4(4): DOI: <https://dx.doi.org/10.18502/jnfs.v4i4.1726> .
28. Ousmane Ouedraogo, Ella Wendinpuikondo Raketa Compaoré, Emile Kou'santa Sabiba Amouzou, **Mamoudou H. DICKO** (2019). Toddlers' Dietary Diversity and Its Determinants in Different Agricultural Periods. Int J Nutr Sci., ;4(3); pp 151-161, <https://dx.doi.org/10.30476/ijns.2019.82283.1018>
29. Ousmane OUEDRAOGO, Ella Wendinpuikondo Raketa COMPAORE, Sabiba Kou'santa Emile AMOUZOU, **Mamoudou H. DICKO** (2019). Variation of women dietary diversity according to Burkina Faso agricultural periods. International Journal of Food Science and Nutrition, 4(3), 145-152; ISSN: 2455-4898, <http://dx.doi.org/10.22271/food>

30. Konaté Kiessoun, Meda Nâg-Tiero Roland, Diao Mamounata1, Alain Souza, **Mamoudou H. DICKO** (2018) Assessment of Toxic Effects on Biochemical and Haematological Parameters and Antimalarial and Immunostimulatory Activities of Polyphenol-Rich Fractions of Leaves from *Nauclea latifolia* (Rubiaceae). *Scholars Academic Journal of Pharmacy*. 7, 503-510. <http://dx.doi.org/10.21276/sajp.2018.7.12.7>
31. Pingdwindé Marie Judith Samadoulougou-Kafando, Hagrétou Sawadogo-Lingani, Donatien Kaboré, Hyacinthe Kanté-Traoré, Diarra Compaoré-Séréomé1 and **Mamoudou H. DICKO** (2018) Processing of Canned Mango using Natural Preservatives: Effect on the Physicochemical Characteristics and Hygienic quality. *International Journal of Food and Nutritional Science*. 5(1): 38- 46. <http://dx.doi.org/10.15436/2377-0619.18.1823> .
32. Konaté Kiessoun, Dibala I. Crépin, Diao Mamounata, Yomalan Kassi, Alain Souza, **Mamoudou H. DICKO** (2018) Preliminary toxicity and gastroprotective potential of flavonoid rich fractions of leaves from *Opilia celtidifolia* (Guill. & Perr.) Endl. ex Walp (Opiliaceae). *PHARMACEUTICAL AND BIOLOGICAL EVALUATIONS*. Vol. 5 (Issue 3): 59-68. <http://dx.doi.org/10.26510/2394-0859.pbe.2018.07>
33. Konaté Kiessoun , Mamounata Diao, Crepin Dibala Ibingou, Yomalan Kassi, Alain Souza and **Mamoudou H. DICKO** (2018) In vitro antioxidant capacity and in vivo anti-ulcer and analgesic potentials of dichloromethane fraction of stem barks from *Boswelli dalzielii* Hutch. *GSC Biological and Pharmaceutical Sciences* 2018, 04(03), 007–017. <https://doi.org/10.30574/gscbps.2018.4.3.0025>
34. Dibala Crépin I. Marie Chantal Yougbaré, Kiessoun Konaté, Nesson Désiré Coulibaly and **Mamoudou H. DICKO** (2018) Production of the Nil tilapias (*Oreochromis niloticus linneaus*, 1758) with the foods vegetal proteins diet. *Journal of Applied Biosciences* 128: 12943-12952. <https://dx.doi.org/10.4314/jab.v128i1.7>
35. Zongo Urbain, Boubacar Savadogo, Steve Leonce Zoungrana, Dia Sanou, Aly Savadogo, **Mamoudou H. DICKO**, Alfred S. Traore (2018) Effect of Moringa Leaves Powder Consumption on Young Children Nutritional and Serum Retinol Status in Burkina Faso Rural Area. *International Journal of Nutrition and Food Sciences*. 7(4): 148-154. <https://dx.doi.org/10.11648/j.ijnfs.20180704.16>
36. Diao Mamounata, Crépin I. Dibala1, Brice N'cho Ayékoué, Mamoudou H. Dicko (2018) Biochemical characterization of Burkina red radish (*Raphanus sativus*) peroxidase. *Journal of Applied Biosciences* 125: 12518-12530. <https://dx.doi.org/10.4314/jab.v125i1.2>
37. KONATE Kiessoum, Ouattara Nabéré, Méa Arsène, Alain Souza, et al.. "Anti-Nociceptive and Anti-Inflammatory Properties of Polyphenol-Rich Fractions of Roots from *Ximenia americana* L., (Olacaceae), in Experimental Mice" *International Journal of Pharmacy and Pharmaceutical Research* Vol. 12 Iss. 1 (2018) p. 281 – 297. ISSN: 2349-7203. 10.25166.
38. KANTE-TRAORE Hyacinthe, Hagrétou SAWADOGO-LINGANI, Charles PARKOUDA, Judith P. M. SAMADOULOGOU-KAFANDO1 and **Mamoudou H. DICKO** (2018) Mango doughnuts technology process for innovative prevention of post-harvest loss of mango fruits in Burkina Faso. *Afr. J. Food Sci.* Vol. 12(4) pp. 63-72, April 2018. Vol. 12(4) pp. 63-72, April 2018. DOI: <http://dx10.5897/AJFS2017.1665>
39. TAPSOBA Fidèle Wend-bénédo, Hagrétou Sawadogo-Lingani, Donatien Kaboré, Sandrine Zongo, Diarra Compaoré-Séréomé and **Mamoudou H. DICKO** (2018) Controlled fermentation of the zoom-koom dough using two isolates of lactic acid bacteria (LAB 1 and LAB 5) as starter cultures: Effect on hygienic, rheological, nutritional and sensorial characteristics of the final product. *Afr. J. Biotechnol.* Vol. 17(5), pp. 96-107, 31. <https://dx.doi.org/10.5897/AJB2017.16306>
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Selected general communication to public audience

1. Pr Mamoudou H. DICKO, Personal website for scientific visibility and courses portal for students: <https://works.bepress.com/dicko>
2. Pr Mamoudou H. DICKO (2020). COVID-19 : Mini-review on coronavirus disease 2019 (Covid-19). LeFaso.net. <https://lefaso.net/spip.php?article95832>

3. Policy brief. DICKO, M. H. (2017). Formation et Recherche en Sécurité Alimentaire et Biotechnologie en Afrique. <http://lefaso.net/spip.php?article75537>
4. Policy brief. Yotova V et al.+ DICKO M. H. (2011) La recherche génétique confirme que les non-Africains descendent en partie de l'homme de Neandertal. https://www.eurekalert.org/pub_releases_ml/2011-07/aaf-t_1071411.php
5. Audit: Etat des lieux de la Sécurité alimentaire dan l'enseignement supérieur au Burkina Faso. knowledge.cta.int/fr/content/download/.../AIFSHE+report+Ouagadougou_FR.pdf
6. News paper. Burkina Faso: Sécurité alimentaire au Faso - Les universités s'invitent à la table. L'observateur paalga (2013). <http://fr.allafrica.com/stories/201309110561.html>

Projects management and Fund raising capacity

1. West African Biotechnology Network (2019- present)

University of Uppsala, International Sciences Programme (ISP/IPICS)

2. EDULINK-II Biotechnology and Food security in Africa (2013-2017).

- ACP-European Union, FED/2013/320-152 ; 2013-2017

3. Biodiversity of sorghum varieties (2008-2011)

New Partnership for African Development

4. Bioactives molecules from fruits and vegetables (2009-2016)

International Foundation for Science (IFS, 4 projects)

5. Antioxidant and antimicrobial activities of essential oils from medicinal plants of Burkina Faso (2008-2016)

International Foundation for Science (IFS, 3 projects).

6. Biodepollution industrial effluent by enzyme catalysis (2008-2012)

- Agence Universitaire de la Francophonie (AUF, 1 projet, 1 projet Fondazione Lelio and Lisli Basso-Issoco)

6. Research-based tree oil production in West Africa (2011-2016)

Finance : DANIDA (Qualitree, 1 projet).

7. West African Biotechnology Network (2003-2006)

-World Bank/African Association of Universities

8. West African Economic and Monetary Union Centre of Excellence in Food Technology and Biotechnology (2006-2018).

PROFESSIONAL EXPERIENCE

-Since January 2018. Head of the new Laboratory of Biochemistry, Biotechnology, Food Technology and Nutrition, resulting from the fusion the laboratories BAEBIB and LABSAN/CRSBAN of Pr Alfred S. TRAORE (retired).

- Former General Manager of Student Welfare Institution ("Directeur Général du Centre National des Œuvres Universitaires", CENOU) Ministry of Higher Education. August 2008 till September 2011.
- Since November 2008, member of the Scientific Adviser Committee (SAC) of the International Foundation for Science.
- Since February 2008, head of laboratory of Food Biochemistry, Enzymology, Industrial Biotechnology, and Bioinformatics (BAEBIB), Université de Ouagadougou (UFR-SVT).
- Post-doctorale Fellow on « Cloning, expression and characterization of lipase from the halobacterium *Natronoccus* sp. Laboratory of 'Architecture and Function of Biological Macromolecules. Université de la Méditerranée, Marseille, France. Research Group of [Prof.Dr. Bernard Henrissat et Prof.Dr. Jacques Baratti](#). 2006-2007.
- January 2001-present, Senior lecturer at University of Ouagadougou. Lecture of the following modules: Modern methods of Biochemical Analysis, Structural Biochemistry, Enzymes and Nutrition, Food Physical Chemistry, Nutritional Biochemistry, Food Technology, VIH/AIDS and Nutrition, Fundamental Enzymology and Industrial Enzymology.
- November 2003-present. Control and Analysis of technological and nutritional quality of foods manufactured by Food Industries of Burkina: SODIBO, BRAFASO, CITEC, SOFITEX, SOSUCO, SODEPAL, ONEA (water exclusively), etc.
- Biochemical and Microbiological control of foods in collaboration with INERA, National Laboratory of Public Health, etc..
- November 2003-present, Burkinabe Expert for Food Control Standardization in the West African Economical Union (UEMOA).
- July 2002- August 2008. Permanent Secretary of West African Biotechnology Network. Association of African Universities (AAU).
- February 2004- present consultant of 2004. Association of African Universities.
- June 1994-October 1994, post-university training on biochemica and microbiological qualities of milk produced in the region of Oudalan. Programme Sahel Burkina/Pays-Bas (PSB/PB), Burkina Faso.
- 1995-present. Supervision of 15 Msc and 8 PhD students.

Language skills

- French: main language of education
- English (written and spoken) : two certificates on Fluency and academic writing.
- Local languages: Peulh, Moore and Dioula.

Other skills

General manager of public institutions, enthusiastic and involved in youth and political organizations.

- Informatic softwares: Windows, Linux, Word, Excel, Power Point, Virtual Traning Studio, Epi-Info, Stastica Graphic, SPSS, Front-Page, Artemix, protein prospector, Clustal W, BLAST, etc.
- Analyticl techniques. Purification and characterization of proteins/enzymes, spectrophotometry, fluorimetry, NMR, HPLC, FPLC, GC, MS (MALDI-TOF-MS; LC-MS et tanden LC-MSⁿ), Electrophoresis (1D, 2DE, electroblotting), ELISA, PCR, Immuno-essays, etc.
- Organization of International scientific meetings: I) Food Science and Nutrition in West-Africa. Université de Ouagadougou: 22-25 nov. 1999, Ouagadougou (IRD/WUR/IFS/OU); II) Improvement of Food in Africa. 23-28 nov. 2003 (FAO/IRD/WU/UO); III) Use of GMO and risk analysis in agro-food industries. 8-10 nov. 2005; AUF/CIDEFA/GP3A/UO).
- Participant of the following meetings : The Netherlands Biotechnology Society (2001, 2002, 2004), Food Africa 2003 (Yaoundé, Cameroun); Plant polysaccharides 2000 (Wageningen, The Netherlands); West African Society of Chemistry (1994, Ouagadougou; 1996).

Review of International scientific Papers

- Journal of Agricultural and Food Chemistry (USA, Impact factor: 2.8);

- Journal of cereal science (USA, Impact factor: 2.7
- Applied Biochemistry and Biotechnology (USA, Impact factor: 2.0);
- Journal of the Science of Food and Agriculture (UK, Impact factor: 1.7);
- FEBS Journal (Germany, Impact factor: 3.6),
- Journal of Chemical Ecology (USA, Impact factor: 2.5);
- Plant Cell Report (England, Impact factor: 2.5),
- African Journal of Biotechnology (Kenya, Impact factor: 0.5);

Journal Edition

- Editor of African Journal of Food Science: www.academicjournals.org/AJFS
- Editor of the Journal "The Scientific World Journal". <http://www.tswj.com/editors/biotechnology/>

Honorary distinction

- National distinction « Chevalier de l'Ordre des Palmes Académiques », December 11th, 2017.
- Peace Embassy. International Federation for Universal Peace. December 2008
- Burkinabe Expert for Food Control and Standardization of analytical methods in the West African Economical Union (UEMOA).
- Laureate of the International Foundation for Science. Stockholm, Sweden. June 2001.
- Laureate of Jan Tinbergen Fellowship Program, Nuffic, The Netherlands, Wageningen Agricultural University, Department of Food Chemistry. June 1997, February 1998.
- Laureate of research grant on agro-food process engineering. Agence Universitaire de la Francophonie. July 2008.
- Laureate of AUF post-doctoral fellowship (2006-2007), Laboratory of "Architecture and Function of Biological Macromolecules". Université de la Méditerranée, Marseille, France. 2006
- Title of full Professor in Biochemistry/Biotechnology by the African and Malagasy Council for higher Education (CAMES). July 2012.
- Member or partner of the following scientific societies :
 1. American Chemical Society
 2. American Society for Biochemistry and Molecular Biology
 3. Society of Chemical Industry
 4. Institute of Food Science
 5. Société Ouest Africaine de Chimie
 6. Société Burkinabè de Nutrition
 7. West African Biotechnology Network (RABIOTECH)

Political experience

- Former member of parliament (**MP**) of Burkina Faso (2012-2014). Vice-president of law and human rights commission of the parliament.
- January 31st 2015 to January 20th 2018, vice-President of the political party "Nouvelle Alliance du Faso, NAFA".
- Since January 20th, President of the political party "Nouvelle Alliance du Faso, NAFA".

CERTIFIED ACCURATE AND TRUE

Ouagadougou, November 30th 2020



Pr. Mamoudou. H. DICKO, PhD