

Curriculum vitae

1. Name in Full: NDINDENG Sali Atanga				
FAMILY: NDINDENG		First: Sali Atanga		Middle
2. Date of Birth: 1975		3. Nationality: Cameroon		
Year				
4. Current Appointment and/or Status: Ph.D. (Defended and passed final Examination)				
5. Academic Degree: Doctor of Philosophy in Agriculture				
Type (PhD, etc): Ph.D.		Date Obtained: 24 / 09 / 2010		
Field: Molecular Plant-Microbe Interactions		√ Expected Day Month Year		
Institute: Hokkaido University		(Country): Japan		
6. Higher Education (from the latest one)				
Name of University / Institution	Location	Degree	Field	Completion Date (Month, Year)
Special Postgraduate Program in Biosystems-Sustainability. School of Applied Biosciences Graduate School of Agriculture, Hokkaido University, Japan	Japan	Doctor of Philosophy A-Grade (89-80 %)	Agriculture	09/2010
Graduate School of Biochemistry Faculty of Science University of Buea, Cameroon.	Cameroon	Master of Science GPA=3.35/4	Biochemistry	11/2000
Department of life Sciences Faculty of Science University of Buea, Cameroon.	Cameroon	Bachelor of Science (Honors) GPA=3.46/4	Biochemistry and Microbiology	07/1998
7. Previous Employment (from the latest one)				
Name of Institution	Location	Position	From – To	
Institute of Agricultural Research for Development, Ministry of Scientific Research and Innovations, Republic of Cameroon.	Cameroon	Research Officer (Researcher)	26 August 2002- present	
Research Foundation in Tropical Diseases and Environment (REFOTDE), P.O. Box 474, and University of Buea, P.O. Box 63, Buea-Cameroon.	Cameroon	Research Assistant	15 December 1999	

8. Awards and Grants (title, organization and year.)

- Genetics Society of America Poster Award, 26 March 2009 (Poster Title: DNA homologous repair genes are involved in growth and pathogenicity of *Magnaporthe oryzae*).
- Scholar, Islamic Development Bank Ph.D. Merit Scholarship to study at The Graduate School of Agriculture, Hokkaido University, Japan.
- International Foundation of Science Research Grant Number E/3463-2 & E/3463-1
 - Project Titles:
IDB-Merits Scholarship for Ph.D.: Analysis of *Rhm51*, a DNA recombinational repair gene in the rice blast fungus (2007-2010)
E/3463-2: An integrated approach to increase the shelf life and quality of safou (*Dacryodes edulis*) during post-harvest (2007-2010)
E/3463-1: Post-harvest handling and storage of safou (*Dacryodes edulis*) (2003-2006)

9. Research training (2002-2007)

- ◆ SAS for Biometricians / Data Analysis sponsored by IRAD-ADB, IITA-HFS, Cameroon from the 17 to 27th of February 2003
- ◆ CTA/UNAAB Regional Course on Scientific Data Management in Abeokuta, Nigeria from 18th of July to the 3rd of August 2003
- ◆ International course on **Research and Development in Post harvest Practices** jointly organized by the Israeli Ministry of Foreign Affairs (MASHAV), The Agricultural Research Organization (ARO) and The Centre for International Agricultural Development and Cooperation (CINADCO) Bet-Dagan in Israel, on the 6th February-2nd March, 2006.
- ◆ Fellow, Norman E. Borlaug International Science and Technology Fellows Program at the Texas A&M University, USA on the Theme "Molecular tools for the identification of fungal pathogens and population structure analysis". October 1st and November 2nd 2006 organized by USDA

10. International conferences (2007-2010)

- **Phytopathological Society of Japan** Conference, Kyoto, Japan. April 18-20, 2010. (Poster title: Defects in DNA homologous recombination decrease the virulence of *Magnaporthe oryzae*)
- **Japan Society of Biosciences, Biotechnology and Agro-chemistry (JSBBA)** Conference, Tokyo, Japan. March 27-31, 2010. (Presentation title: Defects in DNA homologous recombination decrease the virulence of *Magnaporthe oryzae*)
- **Genetic Society of America (GSA)** 25th Fungal Genetic Conference, Asilomar, California, USA, March 17-22, 2009. (Poster Title: DNA homologous repair genes are involved in growth and pathogenicity of *Magnaporthe oryzae*)
- **Japan Society of Biosciences, Biotechnology and Agro-chemistry (JSBBA)** Conference, Fokouka Japan. March 26-30, 2009. (Poster title: Analysis of *Rhm51*, a recombinational repair gene in *Magnaporthe oryzae*)
- **Japan-Australia International symposium on: Biological interactions with plant roots and aerial tissues**, 28th July 2008, Faculty of Agriculture, Hokkaido University, Japan. (Poster title: DNA Double-Stranded Break (DSB) Repair by homologous recombination: Analyses of *Rhm51*, the *RAD51* homolog gene in the Rice Blast Fungus)

11. Research interest

My research is focused on the role of DNA damage repair in the pathogenicity and variability of fungal pathogens and using the knowledge gained for cancer therapy and control of fungal diseases. In addition to understanding the relationships between DNA damage and reactive oxygen species (ROS) production, autophagic cell death, cell cycle progression, apoptosis which have been shown to mediate growth and pathogenicity (Dasika et al. 1999; Veneault-fourrey et al. 2006; Egan et al. 2007; Saunders et al. 2010, Ndindeng et al. 2010). With the recent finding demonstrating that loss of core proteins in nucleotide excision repair (NER) pathways lead to hypersensitivity to UV radiation and the reason why UV-irradiated germ cells result in embryonic death being unknown (Lans et al. 2010) is also of great interest to me. May be quantifying other forms of DNA damage [Double-strand break (DSB), Single-Strand break (SSB)] and studying the gene expression levels of other DNA damage repair genes in mutants of core NER proteins and determining how they affect cell cycle progression, apoptosis, autophagic cell death and ROS production will give a clearer picture. Since *Magnaporthe oryzae*, the causal agent of rice blast disease has been shown to suffer DSBs during vegetative and infective growth and uses mainly the homologous recombination system for the repair of DSBs (Ndindeng et al. 2010; Ndindeng et al. unpublished) with mutants of key recombinational repair genes being hypersensitive to DNA damaging agents and non pathogenic on rice, there is the temptation to think that target inhibition of DNA repairs by homologous recombination may be an efficient way of controlling this pathogen that displays tremendous pathogenic variability under field conditions. These types of studies may be an eye-opener in using such strategies for fungal disease control and cancer therapy.

12. List of major publications

Authors (all), title, Journal, Vol., No, pp. - , Month, Year

Ndindeng SA, Kudo K, Abe A, Ashizawa T, Asano K, Sone T. *Rhm51*, recombinational repair gene in *Magnaporthe oryzae* participates in growth and pathogenicity. *Molecular Plant Pathology* (Submitted for publication)

Kudo K, **Ndindeng SA**, Abe A, Ashizawa T, Asano, K, Sone, T. DNA homologous recombinational repair gene *Rhm54* participates in the growth and pathogenicity in rice blast fungus, *Journal of General Plant Pathology* (Submitted for publication)

Ndindeng SA, Miki S, Abe A, Asano K, Sone T. EGFP-*Rhm51* foci enable the visualization and enumeration of DNA double-strand breaks in *Magnaporthe oryzae*. *Journal of General Plant Pathology* (Accepted for publication, July 2010)

Ndo, EGD, Bella-Manga, **Ndindeng SA**, Ndoumbe-Nkeng M, Fontem AD, Cilas C. Altitude, tree species and soil type are the main factors influencing the severity of *Phaeoramularia* leaf and fruit spot disease of citrus in the humid forest zone of Cameroon. *European Journal of Plant Pathology* (Accepted for publication, DOI: 10.1007/s10658-010-9660-7)

Ndindeng, S.A., Bella-Manga, Kengue, J., Talle & Lewis, D.L. Quality Standards for *Dacryodes edulis* (Safou). Research Report No. 5. International Centre for Underutilised Crops, Colombo, Sri Lanka. 26p, 2008

Ndindeng, S.A., Kengue, J., Mbacham, W.F., Titanji, V. P. K & Bella-Manga. Effects of 1-methylcyclopropene treatment on the shelf life and quality of safou (*Dacryodes edulis* (G. Don), H. J. Lam) *Forest, Trees and Livelihoods* 17(1): 75-89, 2007

Ndindeng, S.A., Kuate, J., Kengue, J., Dibug, L., Ambassa-Kiki, R. & Bella-Manga. Leaf and fruit abscission in *Dacryodes edulis* ((G. Don), H. J. Lam) in the humid forest zone of Cameroon: Parasites and pest associated and seasonal dynamics of their damage. *Forests, Trees and Livelihoods*, 16: 191-205, 2006.

Kuate J., Foko J., **Ndindeng, S.A.**, Jazet-Dongmo, P. M., Fouré, E., Damesse, F., Bella-Manga & Ducelier, D. Effect of essential oils from citrus varieties on in vitro growth and sporulation of *Phaeoramularia angolensis* causing citrus leaf and fruit spot disease. *European Journal of Plant Pathology*, 114: 151-161, 2006.

Kuate J., Bella-Manga, Damesse, F., Kouodiekong, L., **Ndindeng, S.A.**, Olivier David, O. & Laurent Parrot, L. Enquête sur les cultures fruitières dans les exploitations familiales agricoles en zone humide du Cameroun. *Fruits* (61): 1-15, 2006.

Ndindeng, S.A., Mbacham, W.F., Fanzo-Free, S. & Titanji, V. P. K. Binding properties of extracts of *Lawsonia inermis* on proteins. A dissertation submitted to the Faculty of Science of the University of Buea in partial fulfillment of the requirements for the degree of Master of Science in Biochemistry, 2000.

Wanji S., **Ndindeng, S.A.**, Tanke, T., Ajonina, C., Fontenille, D. *Anopheles* species of the mount Cameroon region: biting habits, feeding behaviour and entomological inoculation rates. *Tropical Medicine & International Health* 8 (7), 643-649, 2003

Wanji, S., Tendongfor, N., **Ndindeng, S.A.**, Esum, M. & Enyong, P. Heterogeneity in the Prevalence and Intensity of Loiasis in Contrasting Bio-ecological zones of Cameroon. *Transaction of the Royal Society of Tropical Medicine and Hygiene*. 97(2): 183-187, 2003

Wanji S., Enyong, P., Yenshu, E., **Ndindeng, S.A.** et al Rapid Assessment Procedures for Loiasis. Report of a Multi-Centre study. *UNDP/World Bank/WHO. (TDR).TDR/IDE/RP/RAP/01.1.*, 2001

13. Computer Literacy

Operating systems (Window XP, MAC OS X)
Office XP and Mac office 2008

Data Analysis (Excel 97, SAS V8, Genstat V5, Solas V3, SPSS, Genetyx version 10,
Auto-assembler version 2.0)

14. Professional Associations

Member of Japan Society for Bioscience, Biotechnology and Agro-chemistry

Member of the Phytopathological Society of Japan

Member of the World Academy of Young Scientist (WAYS)

15. Language Ability (5: excellent1: poor)

	Reading	Writing	Hearing	Speaking
Japanese	1	1	3	3
English	5	5	5	5
French	4	4	5	5
	5 4 3 2 1	5 4 3 2 1	5 4 3 2 1	5 4 3 2 1
	5 4 3 2 1	5 4 3 2 1	5 4 3 2 1	5 4 3 2 1

16. Mailing address

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Academic and professional Referees

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I certify the above information to be accurate and correct.

Date: August 17th, 2010

NAME (Print): NDINDENG Sali Atanga