

Dr Josiane Desiree ETANG,
PhD in Parasitology with emphasis in Medical entomology
21 peer-reviewed publications
10 years experience in research and capacity building

Positions and employment

2002-2006 : Assistant researcher, Institute of Medical Research and studies of Medicinal Plants, Yaoundé, Cameroun
2002- : Part time lecturer of Medical Entomology at nursery school, Catholic University, Yaoundé/Cameroon
2006- : Researcher, Organisation de Coordination pour la lutte contre les Endémies en Afrique Centrale (OCEAC), Yaoundé, Cameroon
2007- : Full time Lecturer, Faculty of Medicine and Pharmaceutical sciences, University of Douala, Cameroon

Other experience and Membership of professional bodies

2000- Member of the "African Network on vector resistance to insecticides" (ANVR), in OCEAC, Yaoundé Cameroon.
2002 Short Term Consultant, WHO Entomologist in Rwanda, 11th-27th/12
2002-2005: Member of the "MIM-Network on *Anopheles gambiae* resistance to pyrethroid in Africa", in OCEAC, Yaoundé Cameroon.
2003- Member of the West African research network "Anopheles Biology and Control" (ABC network).

BIOGRAPHICAL SKETCH

NAME ETANGTOUKO, Josiane Desiree		GENDER Female	
DATE AND PLACE OF BIRTH 24 May 1969 at Bagbeze II, Cameroon		POSITION TITLE Researcher, Medical Entomologist	
ADDRESS: POBox 288, yaounde Cameroon Phone:+237 22 23 22 32 (office), +237 77 61 97 79 (mobile) Fax: +237 22 23 00 61 Email: josyet@yahoo.fr			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Institut de Recherche pour le Developpement (IRD), France		1997	efficacy of treated material against malaria vectors
Institute Pierre Richet/Bouake/Côte d'Ivoire.		2000	Biochemical and molecular detection of insecticide resistance
University of Yaounde I	Maîtrise (M.D. I)	1994	Parasitology
University of Yaounde I	DEA (M.D II)	1998	Parasitology
University of Yaounde I	Ph.D.	2003	Parsitology with emphasis in Medical Entomology

A. Positions and Honors

Positions and employment

- 2002-2006 Assistant researcher, Institute of Medical Research and studies of Medicinal Plants, Yaoundé, Cameroon
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 2003- Member of the West African research network "Anopheles Biology and Control" (ABC network).

Distinction

- 2003: Laureate of PAL+ award for best poster in : Atelier intégratif « Recherche sur le paludisme et les maladies transmissibles associées pour les pays en développement », Section : stratégie de prévention de l'infection palustre : Espoir et réalisme, Anglet, France.

B. Selected peer-reviewed publications

- Josiane Etang, Jose L.Vicente, Philippe Nwane, Mouhamadou Chouaibou, Isabelle Morlais, Virgilio E. Dorosario, Frederic Simard, Parfait Awono-Ambene, Jean Claude Toto and Joao Pinto, 2009. Polymorphism of intron-1inthevoltage-gated sodium Channel gene of *Anopheles gambiae* s.s. populations from Cameroon with emphasis on insecticide knockdown Resistance mutations. Molecular Ecology, doi:10.1111/j.1365-294X.2009.04256.x.

2. Mouhamadou Chouaïbou, **Josiane Etang**, Thierry Brévault, Philippe Nwane, Clément Kérah Hinzoumbé, Rémy Mimpfoundi, Frédéric Simard, 2008. The dynamics of insecticide resistance in the malaria vector *Anopheles gambiae* s.l. from an area of extensive cotton cultivation in Northern Cameroon. *Tropical Medicine and International Health*, 13 (4):476-486.
3. Federica Santolamazza, Maria Calzetta, **Josiane Etang**, Elena Barrese, Ibrahima Dia, Adalgisa Caccone, Martin J Donnelly, Vincenzo Petrarca, Frederic Simard, Joao Pinto and Alessandra della Torre, 2008. Distribution of knockdown resistance mutations in *Anopheles gambiae* (Diptera:Culicidae) molecular forms in West and Central-West Africa. *Malaria Journal*, 7:74 doi:10.1186/1475-2875-7-74.
4. Pie Müller, Mouhamadou Chouaibou, Patricia Pignatelli, **Josiane Etang**, Edward D. Walker, Martin J. Donnelly, Frédéric Simard and Hilary Ranson, 2008. Pyrethroid tolerance is associated with elevated expression of antioxidants and agricultural practice in *Anopheles arabiensis* sampled from an area of cotton fields in Northern Cameroon. *Molecular Ecology*, doi : 10.1111/j.1365-294x.200703617.x
5. **Josiane Etang**, Lucien Manga, Jean-Claude Toto, Pierre Guillet, Etienne Fondjo & Fabrice Chandre, 2007. Spectrum of metabolic based resistance to insecticides in *Anopheles gambiae* s.l. populations from Cameroon. *Journal of Vector Ecology*, 32 (1), 123-133.
6. **Josiane Etang**, Mouhamadou Chouaibou, Jean-Claude Toto, Ousmane Faye, Lucien Manga, Albert Samè-Ekobo, Parfait Awono-Ambene and Frédéric Simard, 2007. A preliminary test of the protective efficacy of Permethrin-treated bed nets in an area of *Anopheles gambiae* metabolic resistance to pyrethroids in North Cameroon. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 101, 881-884.
7. Mahama Toure, **Josiane Etang**, Pierre Carnevale & Fabrice Chandre, 2007. Effectiveness of Permanet in Côte d'Ivoire Rural Areas and Residual Activity on a Knockdown-Resistant Strain of *Anopheles gambiae*. *Journal of Medical Entomology*, 44 (3): 498-502.
8. Guillaume Koum, Augustin Yekel, Bengyella Ndifon, **Josiane Etang** and Frédéric Simard, 2007. Design of a Two-level Adaptive Multi-Agent System for Malaria Vectors driven by an ontology. *BMC Medical Informatics and Decision Making*, 7: 19.
9. Jude D. Bigoga, Lucien Manga, Vincent P.K. Titanji, **Josiane Etang**, Maureen Coetzee & Rose G.F. Leke, 2007. Susceptibility of *Anopheles gambiae* Giles (Diptera: Culicidae) to pyrethroids, DDT and carbosulfan in coastal Cameroon. *African Entomology*, 15(1) : 133–139.
10. **Josiane Etang**, Etienne Fondjo, Fabrice Chandre, Isabelle Morlais, Cecile Brengues, Philippe Nwane, Mouhamadou Chouaïbou, Amadou Djemai & Frédéric Simard 2006. First report of the kdr mutations in the malaria vector *Anopheles gambiae* from Cameroon. *American Journal of Tropical Medicine and Hygiene*, 74 (5):795-797.
11. . Mouhamadou Chouaibou, Frédéric Simard, Fabrice Chandre **Josiane Etang**, Frédéric Darriet, Jean-Marc Hougard, 2006. Efficacy of bifenthrine-impregnated bednets against *Anopheles funestus* and pyrethroid-resistant *Anopheles gambiae* in North Cameroon. *Malaria Journal*, 5 :77.
12. Charles Wondji, Frédéric Simard, Vincenzo Petrarca, **Josiane Etang**, Federica Santolamazza, Alessandra DellaTorre, Didier Fontenille, 2005. Species and populations of the *Anopheles gambiae* Complex in Cameroon with special Emphasis on Chromosomal and Molecular Forms of *Anopheles gambiae* s.s.. *Journal of Medical Entomology*, 42 (6):998-1005.
13. **Josiane Etang**, Fabrice Chandre, Pierre Guillet, Lucien Manga, 2004. Reduced bio-efficacy of permethrin EC impregnated bednets against an *Anopheles gambiae* strain with oxidase-based pyrethroid tolerance. *Malaria Journal*, 3:46.
14. **Josiane Etang**, Fabrice Chandre, Lucien Manga, Bernard Bouchité, Thierry Baldet, Pierre Guillet, 2004. Bio-efficacy of cyfluthrin (SOLFAC EW 050) impregnated bednets against *Anopheles gambiae* in southern-Cameroon, 2004. *Journal of American Mosquito Control Association* 20 (1) : 55-63.
15. **Josiane Etang**, Lucien Manga, Fabrice Chandre, Pierre Guillet, Etienne Fondjo, Rémy Mimpfoundi, Jean-Claude Toto & Didier Fontenille, 2003. Insecticide susceptibility status of *Anopheles gambiae* s.l. (Diptera: Culicidae) in the Republic of Cameroon. *Journal of Medical Entomology*, 40 (4) : 491-497.

C. Research support

Ongoing Research Support

Jo Line (PI) 2009-2014
 Bill and Melinda Gates sponsored project
 Impact of insecticide resistance on the effectiveness of long lasting insecticide treated nets in North Cameroon.
 Role: Co-Investigator

Andrea Crisanti (PI) 2009-2013
 European Union sponsored project N°228421
 Research capacity for the implementation of genetic control of mosquitoes
 Role: Co-Investigator

Completed research support

A41481. ETANG Josiane Desiree (PI) 2005-2007
 WHO Special Programme for Research and Training in Tropical Diseases (TDR)
 Kdr-based insecticide resistance in *Anopheles gambiae* s.s. from Cameroon: origin, spread and levels of resistance

ETANG Josiane Desiree (PI) 2001-2002
WHO programme for operational research on Malaria
Evaluation of the efficacy of insecticide treated nets in an area of malaria vector resistance to pyrethroid: parasitological and clinical and entomological evaluation.

A10625 Akogbeto Martin (PI) 2003-2006
Multilateral Initiative on Malaria-WHO Special Programme for Research and Training in Tropical Diseases (TDR)
Study of factors conditioning the evolution of *Anopheles gambiae* resistance to pyrethroid insecticides in Africa.
Role: Co-Investigator

Bouchite Bernard (PI) 1997-1999
Sponsored by BAYER Environment Science and Supervised by WHO
Evaluation of the efficacy of cyfluthrin EW 50 treated nets in an agro-industrial town (Mbandjock) in Cameroon.
Role: Co-Investigator

AUPELF-UREF (FAC PALU) 1997- 1998
Evaluation of the efficacy of pyrethroid (delatmethrin SC 1% and cyfluthrin EW50) treated nets in natural conditions of utilization.
Role: Co-Investigator