

## SUPPLEMENTARY INFORMATION

### **Evaluation of the effects of agropesticides use on liver and kidney function in farmers from Buea, Cameroon**

Faustin Pascal Tsagué Manfo<sup>1\*</sup>, Sharon Asukia Mboe<sup>1</sup>, Edouard Akono Nantia<sup>2</sup>, Ferdinand Ngoula<sup>3</sup>, Phélix Bruno Telefo<sup>4</sup>, Paul Fewou Moundipa<sup>5</sup>, Fidelis Cho-Ngwa<sup>6</sup>

<sup>1</sup> Department of Biochemistry and Molecular Biology, Faculty of Science, University of Buea, PO Box 63 Buea, Cameroon;

<sup>2</sup> Department of Biochemistry, Faculty of Science, University of Bamenda, PO Box 39 Bambili, Cameroon;

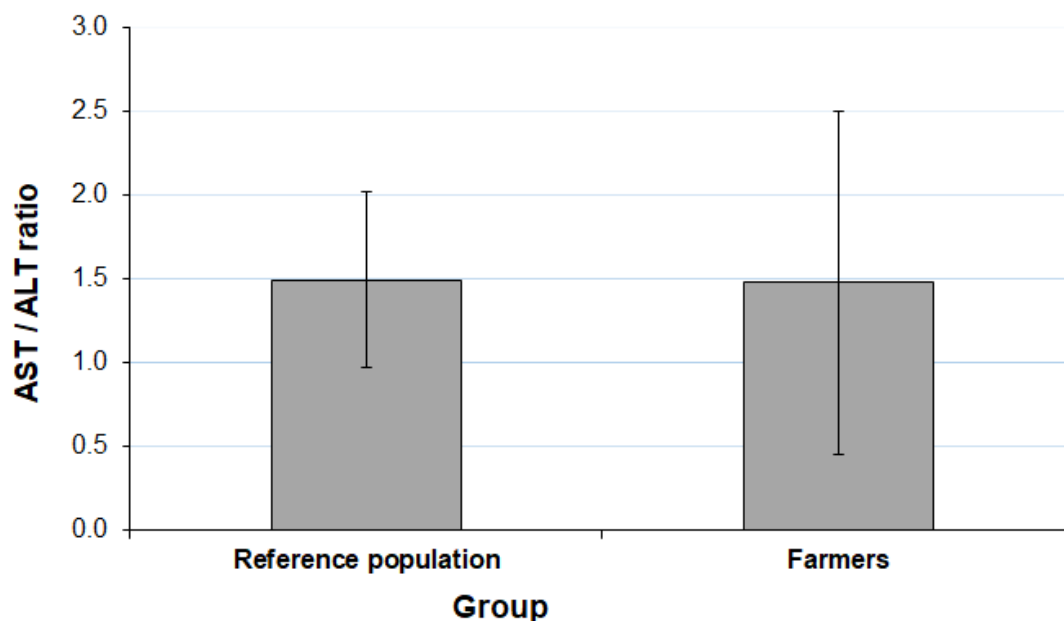
<sup>3</sup> Department of Animal Sciences, Faculty of Agronomy and Agricultural Sciences, University of Dschang, P.O. Box 188 Dschang, Cameroon;

<sup>4</sup> Department of Biochemistry, Laboratory of Medicinal Plant Biochemistry, Food Science, and Nutrition, Faculty of Science, University of Dschang, Dschang, Cameroon;

<sup>5</sup> Laboratory of Pharmacology and Toxicology, Department of Biochemistry, Faculty of Science, University of Yaoundé I, P.O. Box 812 Yaoundé, Cameroon

<sup>6</sup> Laboratory for Drugs and Molecular Diagnostics Research (ANDI Centre of Excellence for Onchocerciasis Drug Research), Biotechnology Unit, University of Buea, Cameroon;

\* Correspondence should be addressed to F. P. T. Manfo; faustinpascal@yahoo.fr



22  
23  
24  
25  
26  
27  
28  
29

**Supplement 1:** ALT / AST ratio in a reference population and farmers using agropesticides.

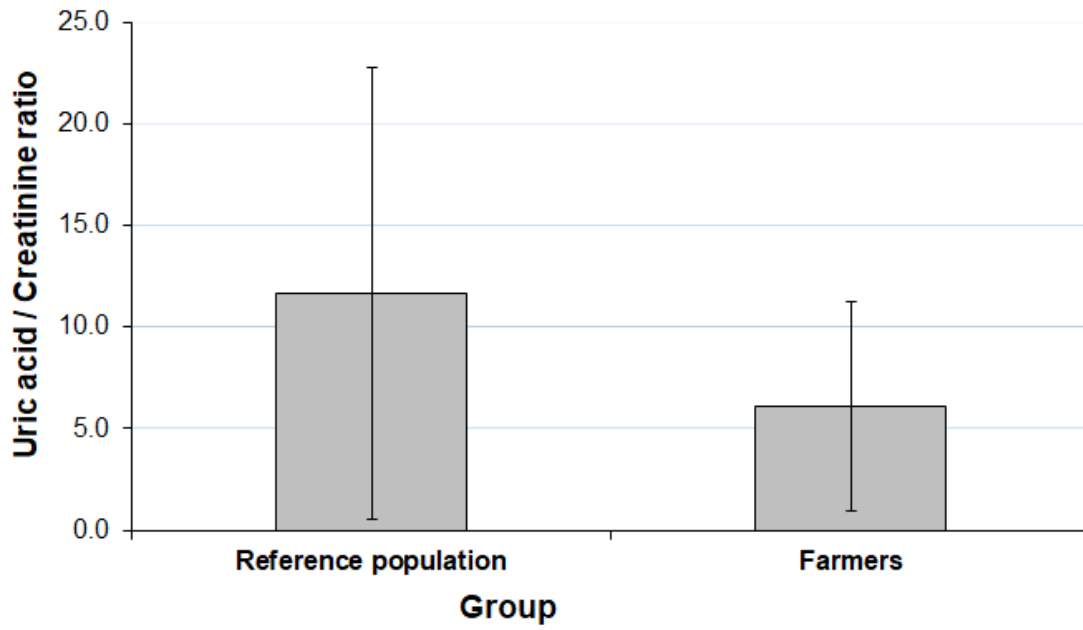
ALT: Alanine aminotransferase; AST: Aspartate aminotransferase. No significant difference between the 2 study populations (P = 0.926; Welch t-test)

30 **Supplement 2:** sub-statistical analysis of the effect of agrochemicals active principles or  
31 formulations on ALT activity (U/L)

		Active principles			Pesticide formulations		
		Metalaxyl	Copper oxide	Ethoprophos	Callomil Plus	Mocap	Parastar
Non users	Mean	12.6	16.2	16.4	16.2	16.4	17.3
	SD	2.6	7.3	7.4	7.3	7.4	7.1
	n	7	32	35	32	35	45
Users	Mean	19.2	21.3	21.6	21.3	21.6	22.7
	SD	7.9	7.5	7.3	7.5	7.3	8.7
	n	50	25	22	25	22	12
<i>P value (T-test)</i>		<i>0.0326</i>	<i>0.0128</i>	<i>0.0123</i>	<i>0.0128</i>	<i>0.0123</i>	<i>0.0303</i>

32 "n" represents the sample size

33  
34  
35  
36



37

38 **Supplement 3:** Creatinine / uric acid ratio in a reference population and farmers using  
39 agropesticides.

40 No significant difference between the 2 study populations ( $P = 0.090$ ; Welch t-test).

41