# *Theobroma cacao* Criollo var. beans from two geographical areas: antiradical, antiproliferative, antigenotoxic and antimutagenic activities of their chemically profiled extracts

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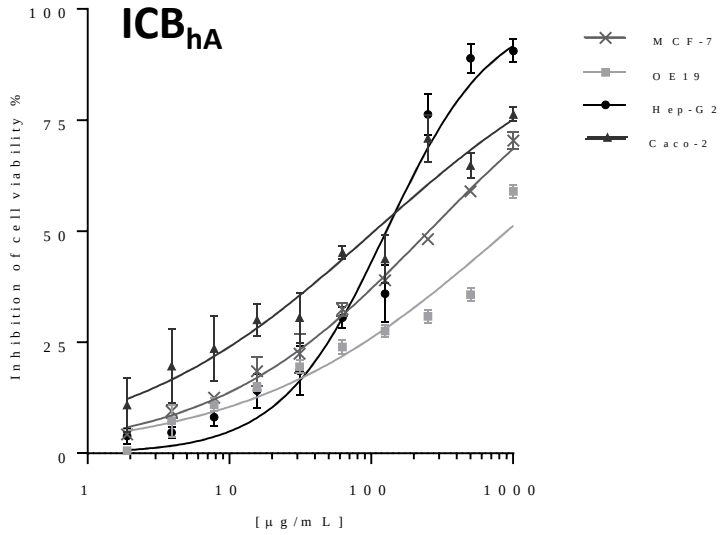
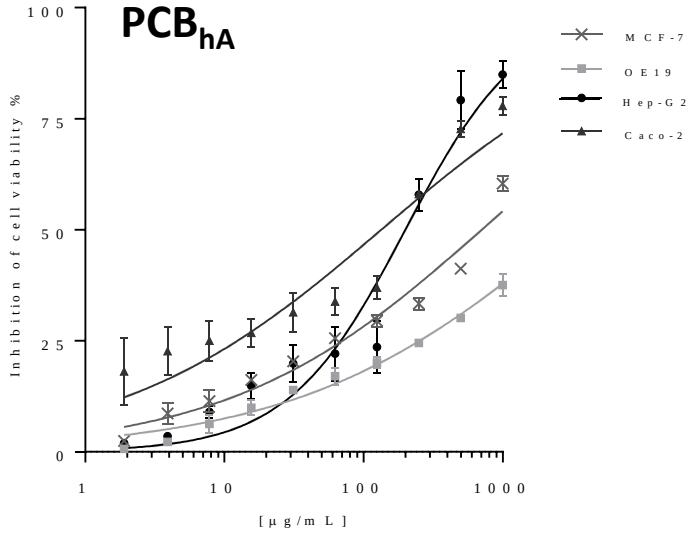
**Figure S1.** Concentration/effect curves obtained relating inhibition of cell viability % to concentration [µg/mL] of hydroalcoholic extracts of ICB and PCB samples on MCF-7, OE19, Hep-G2 and Caco-2 human cell lines.




**ICB** Indonesian cocoa beans; **PCB** Peruvian cocoa beans.

**Table S1.** Mutagenicity and genotoxicity of hydroalcoholic and chloroform extracts of ICB and PCB samples (1000 µg/mL) in TA98, TA100 strains and in TA1535/pSK1002 strain, respectively. Results are presented as mutagenic ratio (MR) and induction ratio (IR) and are expressed as mean ± standard deviation (SD) of three independent experiments. No mutagenic effect (MR<2); No genotoxic effect (IR<1.5).

| **Treatment [µg/mL]** | **RM (mean ± SD)** | | **IR (mean ± SD)** |
|---|---|---|---|
| | **TA98** | **TA100** | **TA1535/pSK1002** |
| **2-NF 2.5** | 2.30 ± 0.12 | - | |
| **2-NF 5** | 5.03 ± 0.10 | - | |
| **2-NF 10** | 9.45 ± 0.95 | - | |
| **SOD 5** | - | 2.03 ± 0.04 | |
| **SOD 10** | - | 3.02 ± 0.01 | |
| **SOD 20** | - | 4.64 ± 0.03 | |
| **4-NQO** | - | - | 2.14 ± 0 .07 |
| **$ICB_{hA}$** | 1.41 ± 0.20 | 1.84 ± 0.11 | 0.65 ± 0.04 |
| **$ICB_{O}$** | 1.50 ± 0.36 | 1.91 ± 0.02 | 0.64 ± 0.35 |
| **$PCB_{hA}$** | 1.76 ± 0.07 | 1.80 ± 0.06 | 0.53 ± 0.06 |
| **$PCB_{O}$** | 1.30 ± 0.19 | 1.92 ± 0.10 | 0.72 ± 0.24 |