

# Supplementary Files

## Selective Anti-Neoplastic Potential of Fractionated Caribbean Native *Ganoderma* species Extracts on Triple-Negative Breast Cancer Cells

I.	Additional experimental procedures	Page
a)	Appearance of the native <i>G. multiplicatum</i> , and <i>G. martinicense</i>	2
b)	Fractionated native <i>Ganoderma</i> spp. medicinal compounds	3
c)	Supporting cell viability assay graphs ( <i>G. multiplicatum</i> )	4-5
d)	Supporting cell viability assay graphs ( <i>G. martinicense</i> )	6-7
e)	Supporting statistically significant different ( <i>p</i> value) graphs ( <i>G. multiplicatum</i> )	8-9
f)	Supporting statistically significant different ( <i>p</i> value) graphs ( <i>G. martinicense</i> )	10-11

### Data Availability Statement

The original contributions presented in the study are included in the article/supplementary material, further inquiries can be directed to the corresponding author/s.

a) Appearance of the native *G. multiplicatum*, and *G. martinicense*



(a)



(b)



(c)

**Figure S1.** Appearance of the native *Ganoderma multiplicatum*, and *Ganoderma martinicense*. Photos of the harvested medicinal mushroom: (a) *G. multiplicatum*, and (b) *G. martinicense*; and the samples dried and pulverized: (c) *G. multiplicatum*. (Photos were provided by: Huerto Rico, LLC).

b) Fractionated native *Ganoderma* spp. medicinal compounds



(a)

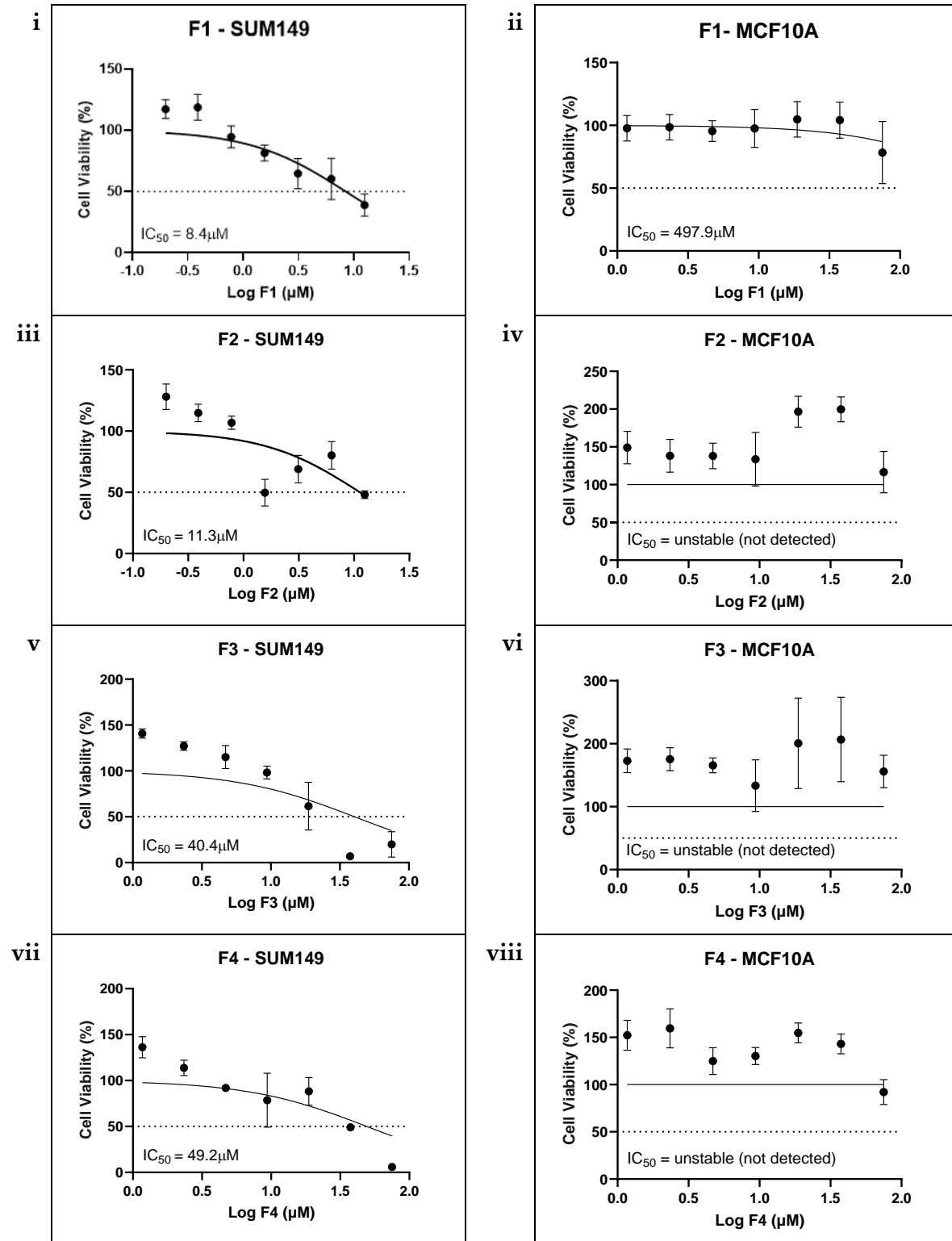


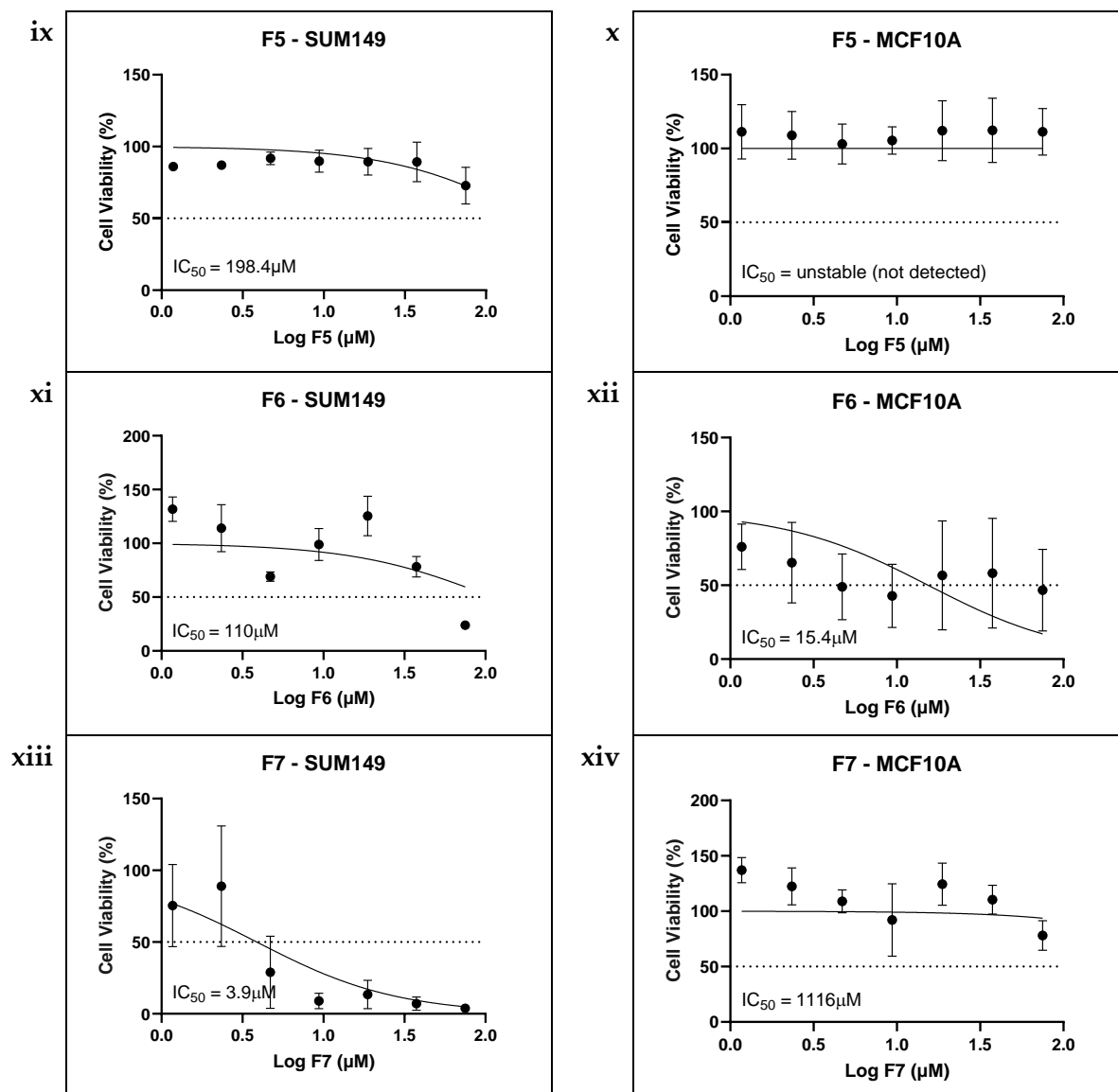
(b)



**Figure S2.** Fractionated native *Ganoderma* spp. medicinal compounds: (a) *G. multiplicatum* (pink label), and (b) *G. multiplicatum* (green label) fractions for reconstitution.

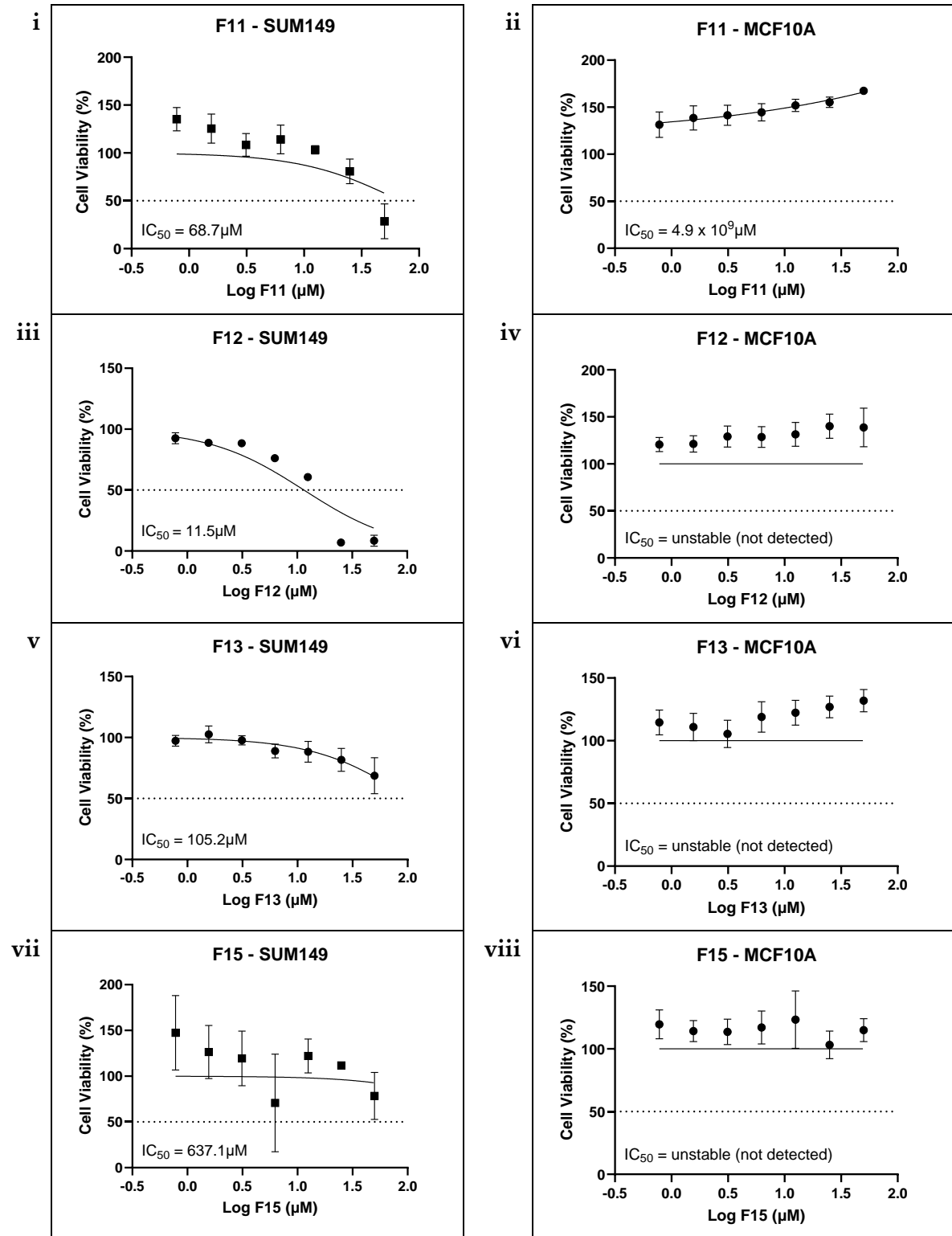
c) Supporting cell viability assay graphs (*G. multiplicatum*)



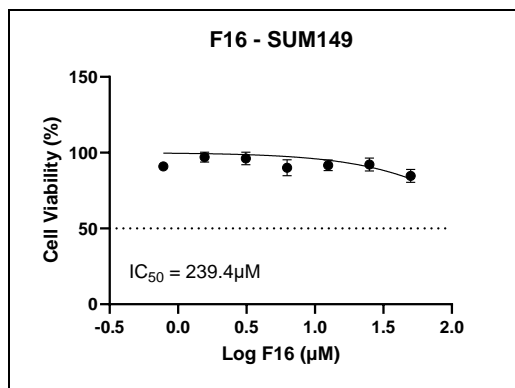


**Figure S3.** Cell viability assays of *Ganoderma multiplicatum* in SUM149PT (TNBC cell line) and MCF-10A (human non-cancerous cell line). The mean inhibitory concentrations ( $\text{IC}_{50}$ ) value expressed as the mean of three independent experiments.

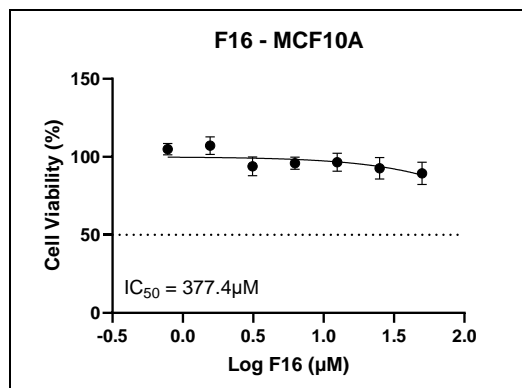
d) Supporting cell viability assay graphs (*G. martinicense*)



ix

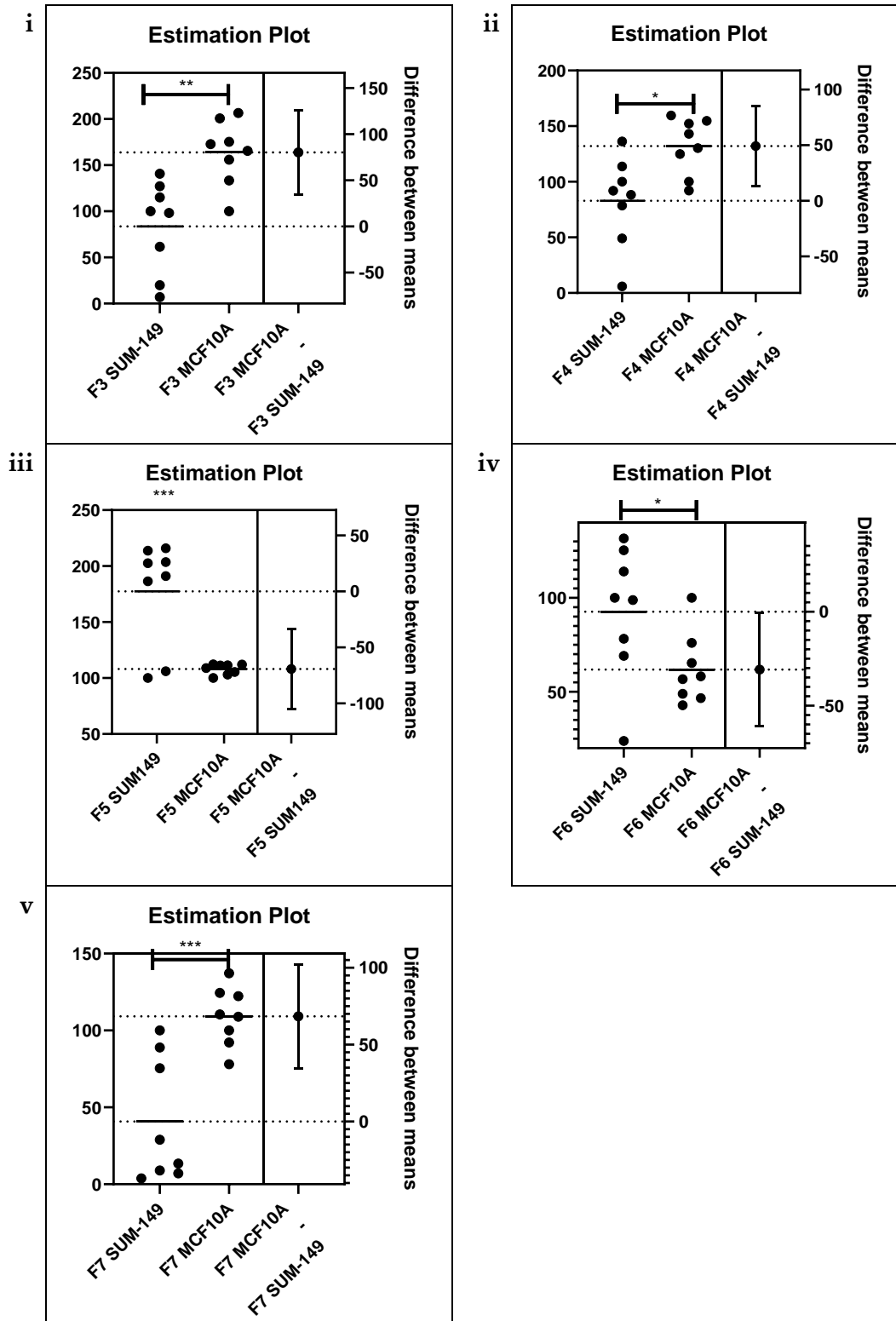


x



**Figure S4.** Cell viability assays of *Ganoderma martinicense* in SUM149PT (TNBC cell line) and MCF-10A (human non-cancerous cell line). The mean inhibitory concentrations ( $\text{IC}_{50}$ ) value expressed as the mean of three independent experiments. *G. martinicense* fraction #14 did not cause any toxicity on either the cancer or the non-cancerous cells evaluated.

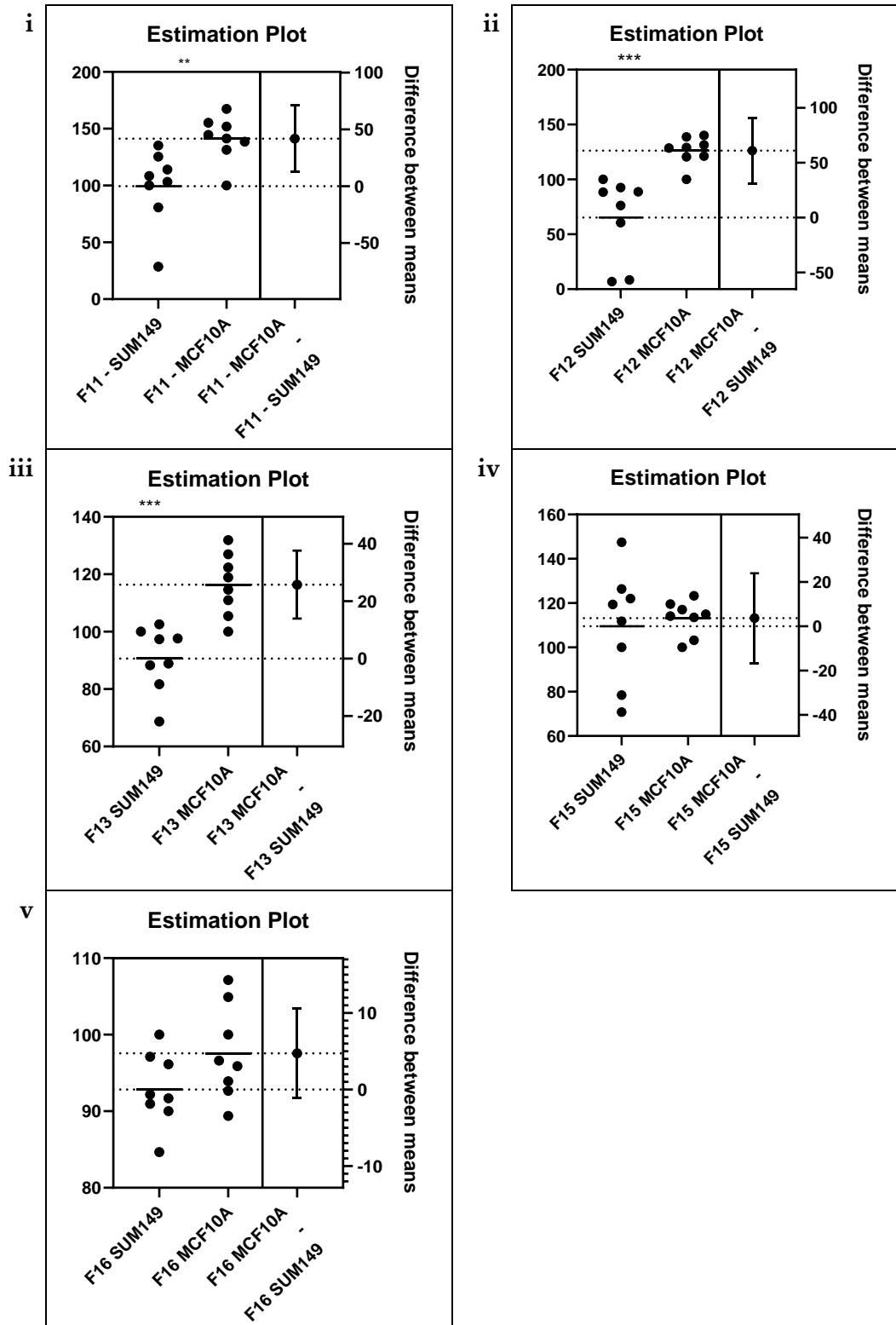
e) Supporting significant different ( $P$  value) graphs (*G. multiplicatum*)





**Figure S5.** Compounds statistically significant different (*p value*) of *Ganoderma multiplicatum*. *P values* were determined between SUM149PT and MCF-10A cells means (\*  $p < 0.05$ , \*\*  $p < 0.01$ , and \*\*\*  $p < 0.001$ ). F1 and F2 lack a *p value* since the viability curves obtained between both cell lines (SUM149PT [0 - 12.5  $\mu$ M], MCF10A [0 - 70  $\mu$ M]) were different and it was not possible to perform the statistical analysis. Bars represent mean  $\pm$  SEM of at least 3 biological replicates.

f) Supporting significant different ( $P$  value) graphs (*G. martinicense*)



**Figure S6.** Compounds statistically significant different (*p value*) of *Ganoderma martinicense*. *P values* were determined between SUM149PT and MCF-10A cells means (\*\* *p* < 0.01, and \*\*\* *p* < 0.001). Bars represent mean  $\pm$  SEM of at least 3 biological replicates. *G. martinicense* F14 did not cause any toxicity on either the cancer or the non-cancerous cells evaluated.