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## Screening of extracts of the Cerrado in human glioblastoma tumoral cell line

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**Introduction:** The Cerrado is the second biome among the five largest ones located in Brazil, with a vast variety of species that were still not studied regarding their biological properties. For that reason, the investigation of the potential cytotoxic activities in cancer of these species seems very promising. Glioblastoma, for instance, a central nervous system's tumor, is presented as an of the most aggressive types of cancer, with a poor prognostic and high mortality rate. Thus, this work had as objective the screening of six Cerrado's species in human glioblastoma tumoral cell line.

**Results & Discussion:** Among the six vegetal extracts evaluated, three species (EB01, EB02 and EB03) presented high cytotoxicity in U251 cell line, having IC<sub>50</sub> value lowest that 40 µg/mL at 24 hours of treatment – 38.93 µg/mL, 12.08 µg/mL and 14.27 µg/mL, respectively. The current chemotherapeutic used to treat that type of tumor, Temozolomide, presents an IC<sub>50</sub> value of 129.8 µg/mL at 72 hours of treatment. These findings are interesting because, when compared with the currently used chemotherapeutic, these extracts have a much lower cytotoxic concentration.

**Conclusion:** The early screening allowed to find three potential antitumoral extracts in glioblastoma cell line since they were cytotoxic at very lowest concentration than the currently used chemotherapeutic.

## Biography

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