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Title: Chemical characteristics and anti-proliferation activities of *Ganoderma tsugae* polysaccharides

Author: Rao-Chi Chien Ming-Tsung Yen Yu-Hsiu Tseng
Jeng-Leun Mau



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Highlights

- ▶ Hot-water and hot-alkali polysaccharides showed different composition profiles.
- ▶ Polysaccharides from fruiting body, mycelium and filtrate showed different profiles.
- ▶ The molecular weight distributions of polysaccharides were 2.8×10^4 - 6.5×10^5 Da.
- ▶ Both polysaccharides showed effective anti-proliferation on cancer cells.

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