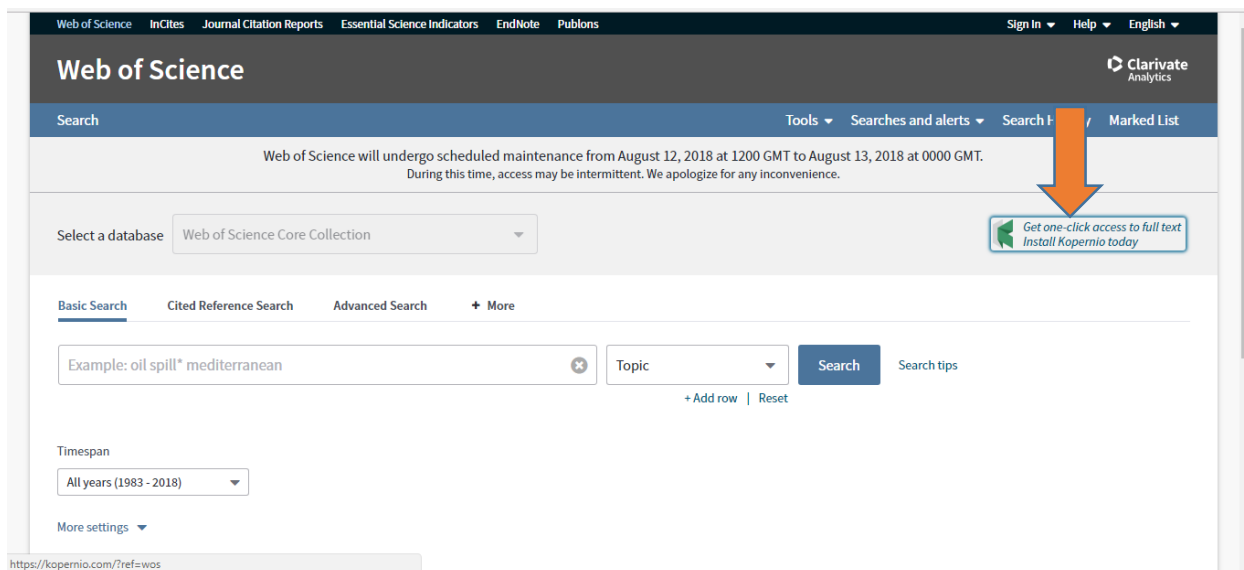


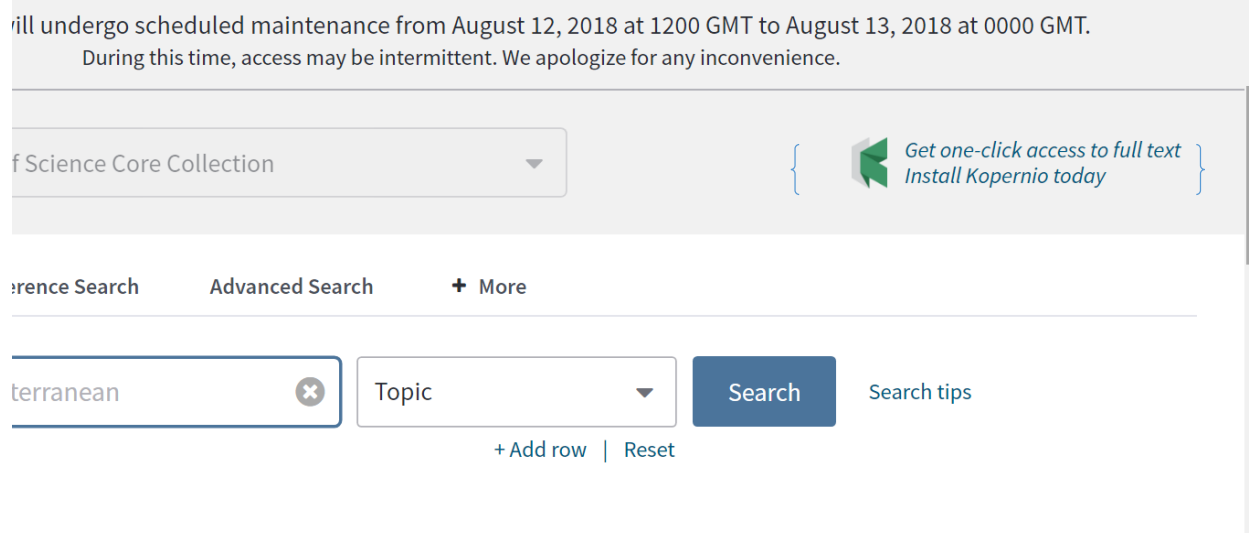
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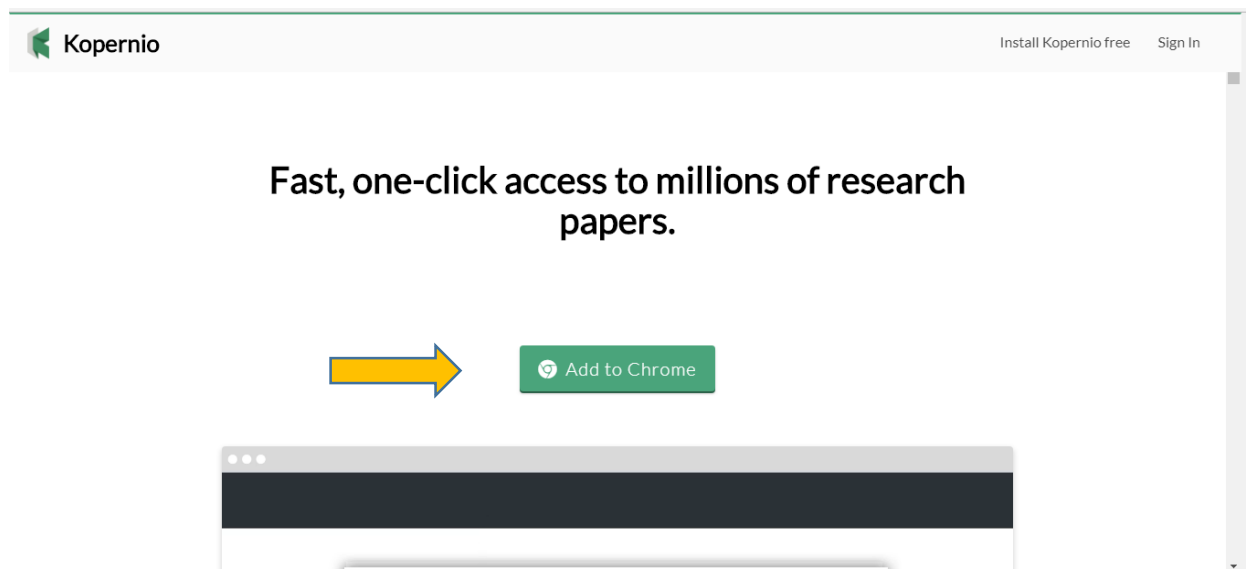
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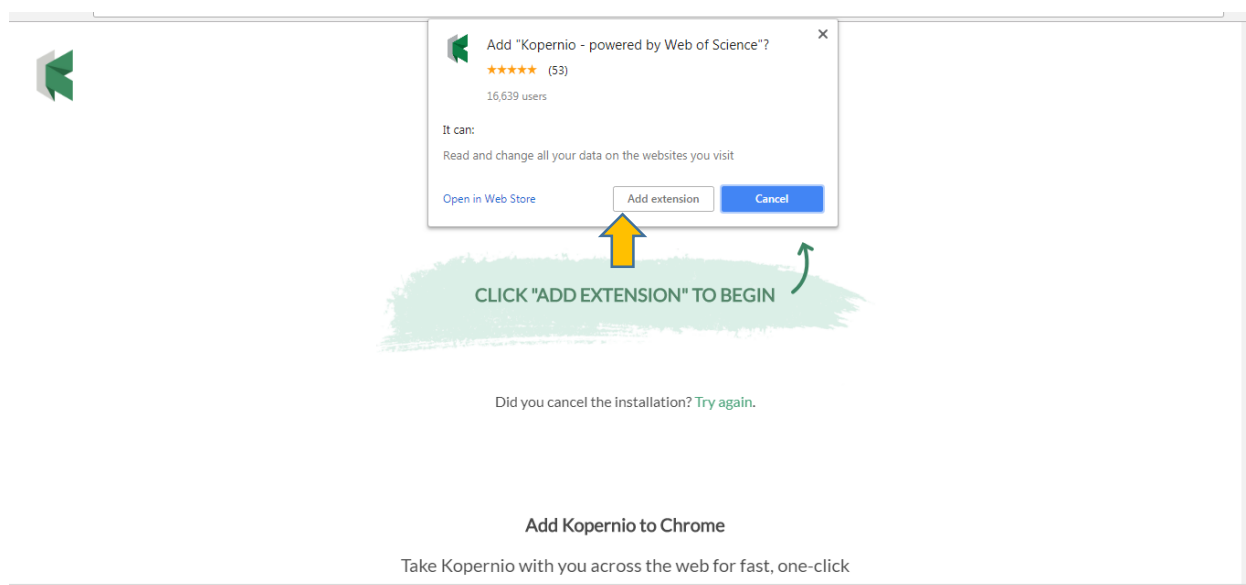
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### New biological activity of the polysaccharide fraction from *Cantharellus cibarius* and its structural characterization

By: Nowacka-Jechalke, N (Nowacka-Jechalke, Natalia)<sup>[1]</sup>; Nowak, R (Nowak, Renata)<sup>[1]</sup>; Juda, M (Juda, Marek)<sup>[2]</sup>; Malm, A (Malm, Anna)<sup>[2]</sup>; Lemieszek, M (Lemieszek, Marta)<sup>[3]</sup>; Rzeski, W (Rzeski, Wojciech)<sup>[3]</sup>; Kaczynski, Z (Kaczynski, Zbigniew)<sup>[4]</sup>

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**Abstract**

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One of the most commonly consumed mushrooms in Europe is *Cantharellus cibarius*, also known as chanterelles. Therefore, the investigation of the pro-health properties of crude polysaccharides from this species was performed. The obtained results indicate that the polysaccharide fraction from *C. cibarius* inhibits the activity of both COX-1 and COX-2. Moreover, the prebiotic potential was revealed in relation to *Lactobacillus* strains. Crude polysaccharides were found to inhibit the proliferation of colon cancer cells with the simultaneous absence of toxicity towards normal cells. The purification and structural

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**ARTICLE INFO**

**Keywords:**  
 Edible mushroom  
 Anti-inflammatory  
 Prebiotic

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