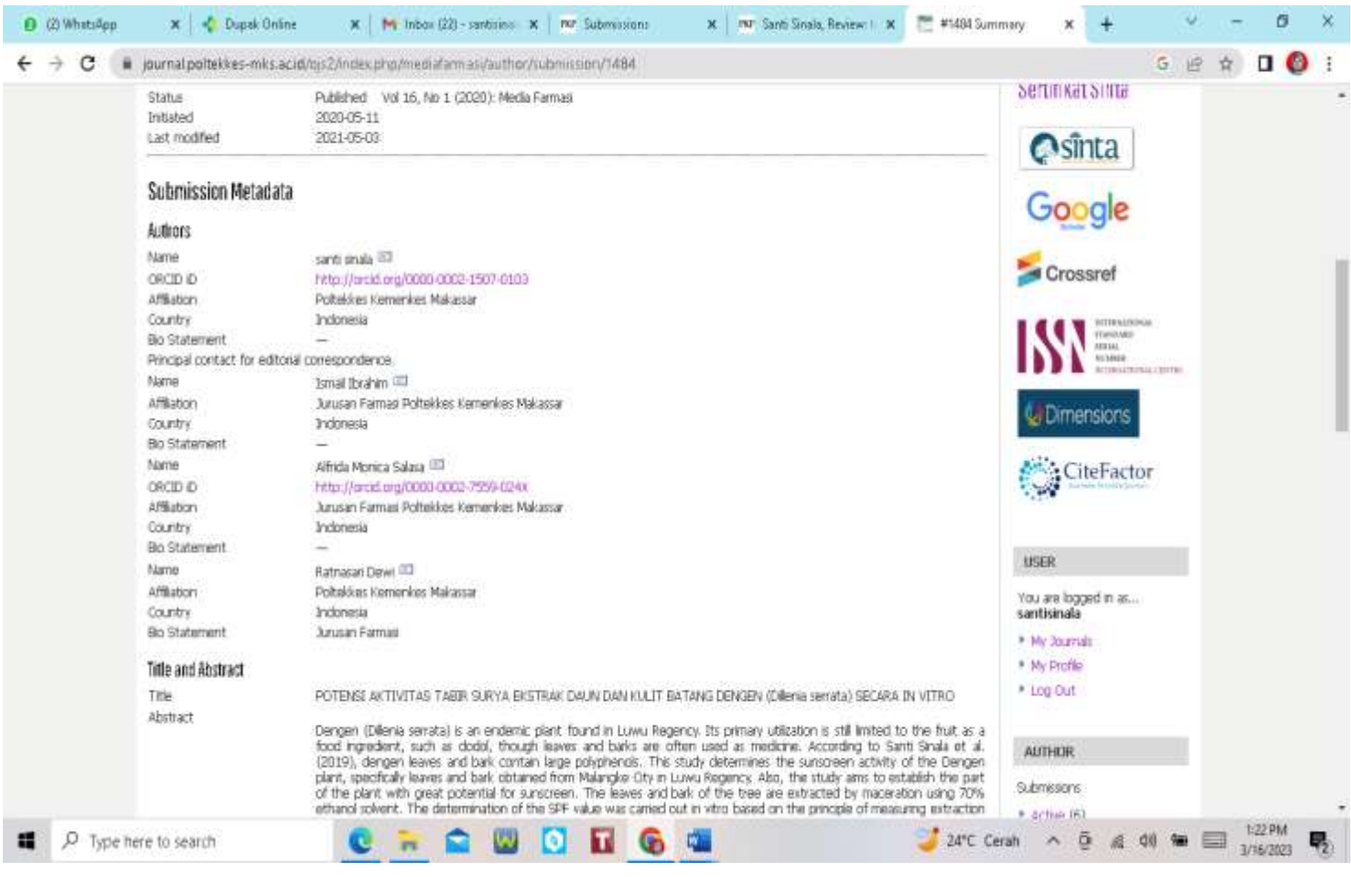
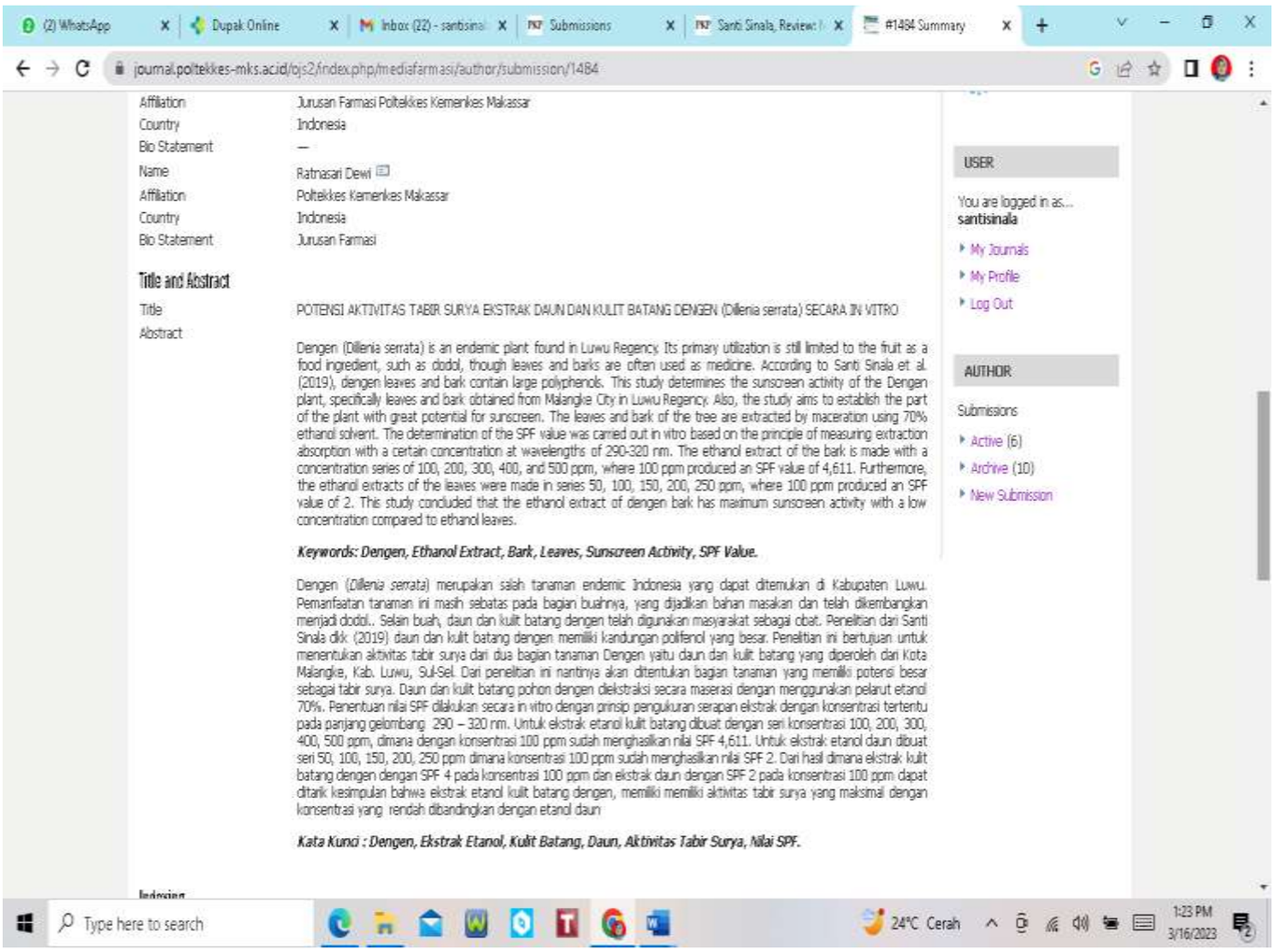
RIWAYAT KORESPONDENSI

POTENSI AKTIVITAS TABIR SURYA EKSTRAK DAUN DAN KULIT BATANG DENGEN (Dillenia serrata) SECARA IN VITRO

Sunscreen Potential Activity Of The Leaves And Bark Dengen Extract (Dillenia serrata) In Vitro

Santi Sinala*, Ismail Ibrahim, Alfrida Monica Salasa, Ratnasari Dewi





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Affiliation	Jurusan Farmasi Poltekkes Kemenkes Makassar
Country	Indonesia
Bio Statement	—
Name	Ratnasari Dewi
Affiliation	Poltekkes Kemenkes Makassar
Country	Indonesia
Bio Statement	Jurusan Farmasi

Title and Abstract

Title: POTENSI AKTIVITAS TABIR SURYA EKSTRAK DAUN DAN KULIT BATANG DENGEN (Dillenia serrata) SECARA IN VITRO

Abstract

Dengen (Dillenia serrata) is an endemic plant found in Luwu Regency. Its primary utilization is still limited to the fruit as a food ingredient, such as dodol, though leaves and barks are often used as medicine. According to Santi Sinala et al. (2019), dengen leaves and bark contain large polyphenols. This study determines the sunscreen activity of the Dengen plant, specifically leaves and bark obtained from Malangke City in Luwu Regency. Also, the study aims to establish the part of the plant with great potential for sunscreen. The leaves and bark of the tree are extracted by maceration using 70% ethanol solvent. The determination of the SPF value was carried out in vitro based on the principle of measuring extraction absorption with a certain concentration at wavelengths of 290-320 nm. The ethanol extract of the bark is made with a concentration series of 100, 200, 300, 400, and 500 ppm, where 100 ppm produced an SPF value of 4,611. Furthermore, the ethanol extracts of the leaves were made in series 50, 100, 150, 200, 250 ppm, where 100 ppm produced an SPF value of 2. This study concluded that the ethanol extract of dengen bark has maximum sunscreen activity with a low concentration compared to ethanol leaves.

Keywords: Dengen, Ethanol Extract, Bark, Leaves, Sunscreen Activity, SPF Value.

Dengen (*Dillenia serrata*) merupakan salah tanaman endemic Indonesia yang dapat ditemukan di Kabupaten Luwu. Pemanfaatan tanaman ini masih sebatas pada bagian buahnya, yang dijadikan bahan masakan dan telah dikembangkan menjadi dodol.. Selain buah, daun dan kulit batang dengen telah digunakan masyarakat sebagai obat. Penelitian dari Santi Sinala dkk (2019) daun dan kulit batang dengen memiliki kandungan polifenol yang besar. Penelitian ini bertujuan untuk menentukan aktivitas tabir surya dari dua bagian tanaman Dengen yaitu daun dan kulit batang yang diperoleh dari Kota Malangke, Kab. Luwu, Sul-Sel. Dari penelitian ini nantinya akan ditentukan bagian tanaman yang memiliki potensi besar sebagai tabir surya. Daun dan kulit batang pohon dengen diekstraksi secara maserasi dengan menggunakan pelarut etanol 70%. Penentuan nilai SPF dilakukan secara in vitro dengan prinsip pengukuran serapan ekstrak dengan konsentrasi tertentu pada panjang gelombang 290 – 320 nm. Untuk ekstrak etanol kulit batang dibuat dengan seri konsentrasi 100, 200, 300, 400, 500 ppm, dimana dengan konsentrasi 100 ppm sudah menghasilkan nilai SPF 4,611. Untuk ekstrak etanol daun dibuat seri 50, 100, 150, 200, 250 ppm dimana konsentrasi 100 ppm sudah menghasilkan nilai SPF 2. Dari hasil dimana ekstrak kulit batang dengen dengan SPF 4 pada konsentrasi 100 ppm dan ekstrak daun dengan SPF 2 pada konsentrasi 100 ppm dapat ditarik kesimpulan bahwa ekstrak etanol kulit batang dengen, memiliki memiliki aktivitas tabir surya yang maksimal dengan konsentrasi yang rendah dibandingkan dengan etanol daun

Kata Kunci : Dengen, Ekstrak Etanol, Kulit Batang, Daun, Aktivitas Tabir Surya, Nilai SPF.

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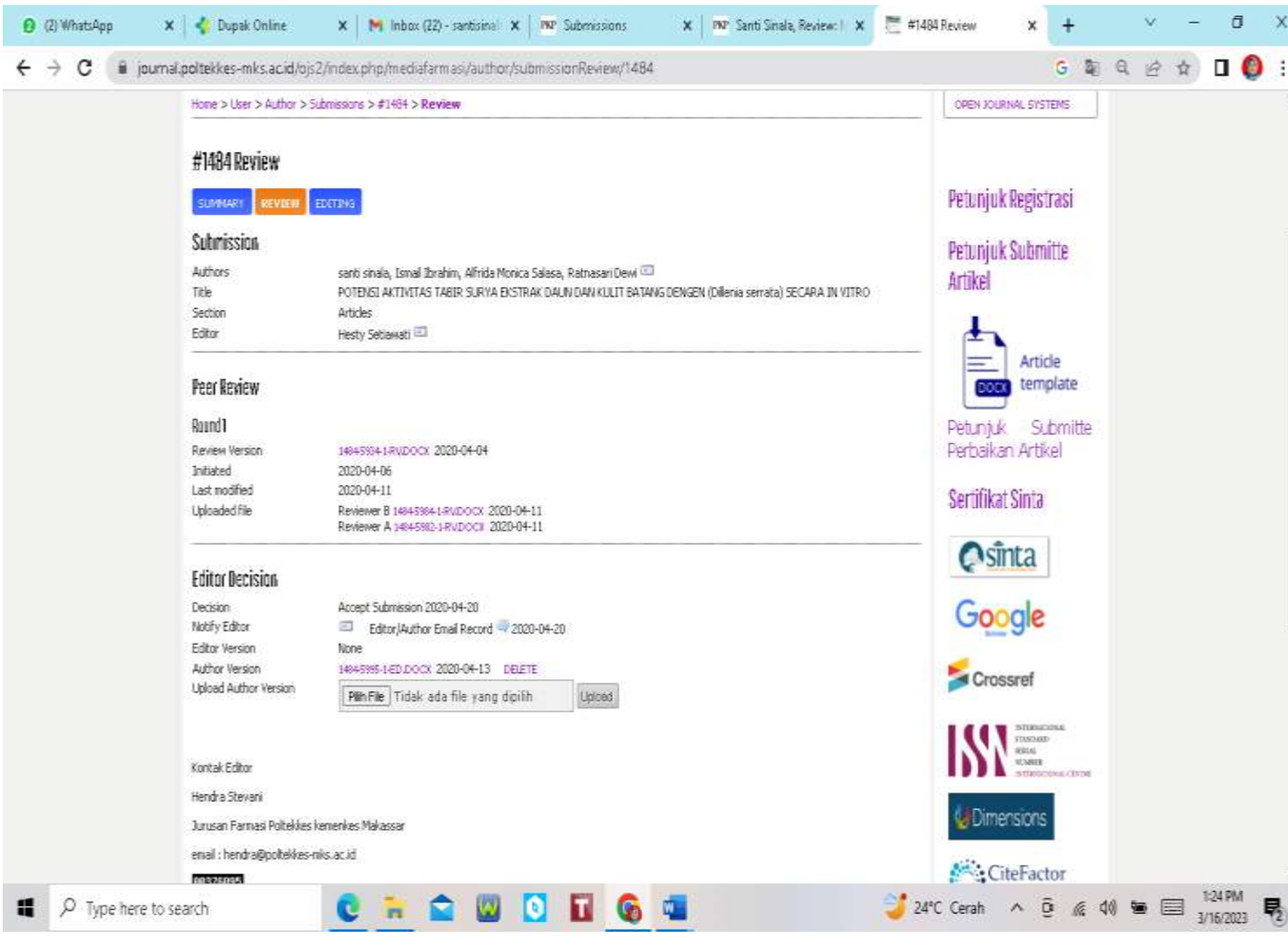

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#1484 Review

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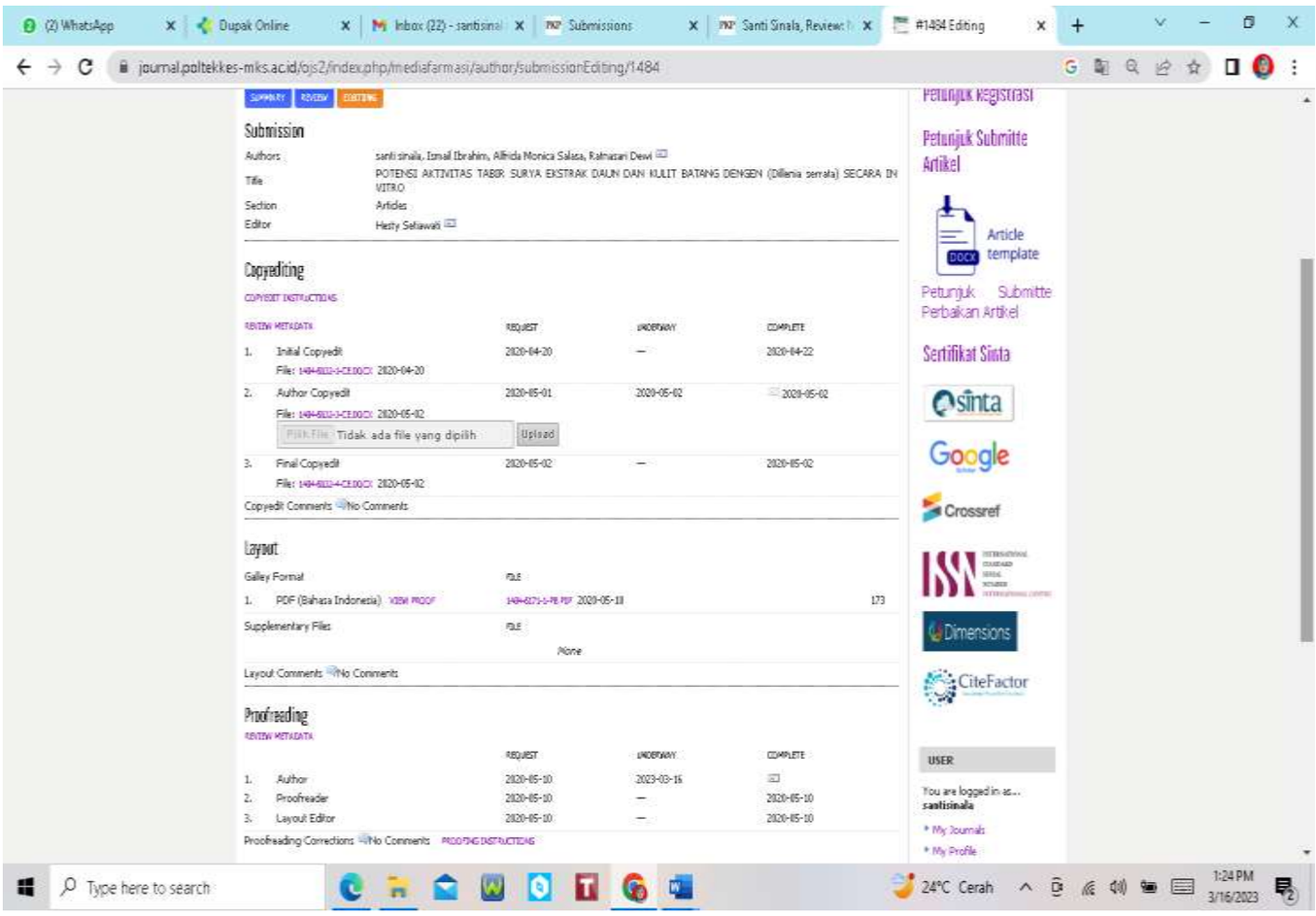
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