

Respons Pertumbuhan dan Hasil Tanaman Terung Ungu (*Solanum melongena* L.) Pada Perbedaan Jenis Mulsa dan Konsentrasi Giberelin

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ABSTRAK

Terung ungu (*Solanum melongena* L.) merupakan komoditas sayuran yang banyak digemari, namun produktivitasnya masih rendah akibat penerapan teknologi budidaya yang kurang optimal. Penelitian ini bertujuan untuk menentukan jenis mulsa dan konsentrasi giberelin terbaik terhadap pertumbuhan dan hasil terung ungu. Penelitian dilaksanakan pada Mei–Juli 2025 di Kebun Percobaan Wedomartani Fakultas Pertanian UPN “Veteran” Yogyakarta menggunakan rancangan Split Plot dalam Rancangan Acak Kelompok Lengkap (RAKL) dengan tiga ulangan. Petak utama terdiri atas empat jenis mulsa, yaitu tanpa mulsa, mulsa plastik hitam perak, jerami, dan sekam padi, sedangkan anak petak terdiri atas tiga konsentrasi giberelin, yaitu 50 ppm, 100 ppm, dan 150 ppm. Hasil penelitian menunjukkan adanya interaksi nyata antara jenis mulsa dan konsentrasi giberelin terhadap tinggi tanaman, jumlah daun, diameter buah dan panjang buah. Mulsa plastik hitam perak (MPHP) memberikan hasil tertinggi pada diameter batang, umur mulai berbunga, jumlah buah, bobot buah, diameter dan panjang buah, bobot segar brankasan, serta indeks panen. Giberelin 100 ppm menghasilkan nilai tertinggi pada tinggi tanaman, jumlah daun, jumlah buah, bobot buah, diameter dan panjang buah, hasil ton/ha, bobot brankasan, serta indeks panen.

Kata Kunci : *Terung Ungu, Jenis mulsa, Giberelin*

"GROWTH AND YIELD RESPONSE OF PURPLE EGGPLANT (*Solanum melongena* L.) TO DIFFERENT MULCH TYPES AND GIBBERELLIN CONCENTRATIONS"

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ABSTRACT

Purple eggplant (*Solanum melongena* L.) is a widely consumed vegetable crop, however, its productivity remains low due to suboptimal cultivation practices. This study aimed to determine the best mulch type and gibberellin concentration for improving the growth and yield of purple eggplant. The experiment was conducted from May to July 2025 at the Wedomartani Experimental Field of the Faculty of Agriculture, UPN "Veteran" Yogyakarta, using a Split Plot design arranged in a Randomized Complete Block Design (RCBD) with three replications. The main plots consisted of four mulch types (no mulch, silver-black plastic mulch, straw mulch, and rice husk mulch), while the subplots consisted of three gibberellin concentrations (50 ppm, 100 ppm, and 150 ppm). The results showed a significant interaction between mulch type and gibberellin concentration on plant height, number of leaves, fruitss diameter, and frit length. Silver-black plastic mulch produced the highest values for stem diameter, flowering age, fruit number, fruit weight, fruit diameter and length, fresh biomass, and harvest index. Gibberellin at 100 ppm resulted in the highest plant height, leaf number, fruit number, fruit weight, fruit size, yield per hectare, fresh biomass, and harvest index.

Keywords: *Purple eggplant, Mulch type, Gibberelin*