

## ABSTRAK

TRI PUTRI YANI M.TAHER Npm 91511407133030; Pengaruh Pelepasan Kulit Ari (*Sarcotesta*) Dan Suhu Perendaman Terhadap Viabilitas Benih Pepaya (*Carica papaya L.*) di bawah bimbingan Ridwan dan Ita Mowidu.

Pepaya merupakan tanaman yang banyak dibudidayakan di Indonesia. Penelitian ini bertujuan untuk mengetahui pengaruh pelepasan kulit ari (*Sarcotesta*) dan suhu perendaman terhadap viabilitas benih pepaya. Penelitian ini menggunakan metode Rancangan Acak Kelompok (RAK) dengan 5 perlakuan yang terdiri dari kontrol, suhu air perendaman 10°C, 20°C, 30°C dan 40°C. Tiap perlakuan diulangi sebanyak 4 kali, setiap unit percobaan disemaikan 50 butir benih. Uji lanjut menggunakan DMRT. Hasil penelitian menggunakan bahwa suhu perendaman berpengaruh nyata sampai sangat nyata terhadap daya tumbuh benih, benih yang tidak berkecambah, indeks vigor, kecepatan berkecambah, tinggi tanaman dan nisbah tajuk akar, dimana perlakuan terbaik yaitu suhu perendaman 40°C sampai suhunya turun 24 jam.

**Kata kunci :** *Dormansi, perkecambahan, pepaya, Viabilitas.*



## ABSTRAK

TRI PUTRI YANI M.TAHER Npm 91511407133030; The Effect Of Sarcotesta and Soaking Temperature on the Viability of Papaya Seeds (*Carica Papaya L.*) Supervised by Ridwan AND Ita Mowidu.

Papaya is a plant that is widely cultivated in Indonesia. This study aims to determine the effect of the release of sarcotesta and Soaking temperature on viability of papaya seeds. This study uses a Randomized Blok Design (RDB) method with 5 treatments consisting of control, soaking water temperature 10°C, 20°C, 30°C and 40°C. Each treatment was repeated 4 times, each experimental unit was planted with 50 seeds. Further test DMRT. The results of the study are that the application of soaking temperature has a significant effect on the ability to grow seed, seed that does not germinate, vigor index, germination speed, plant height and root canopy ratio, where the best treatment is soaking temperature of 40°C until the low temperature in 24 hour.

**keywords :** *Dormancy, Germination, Papaya, Viability*