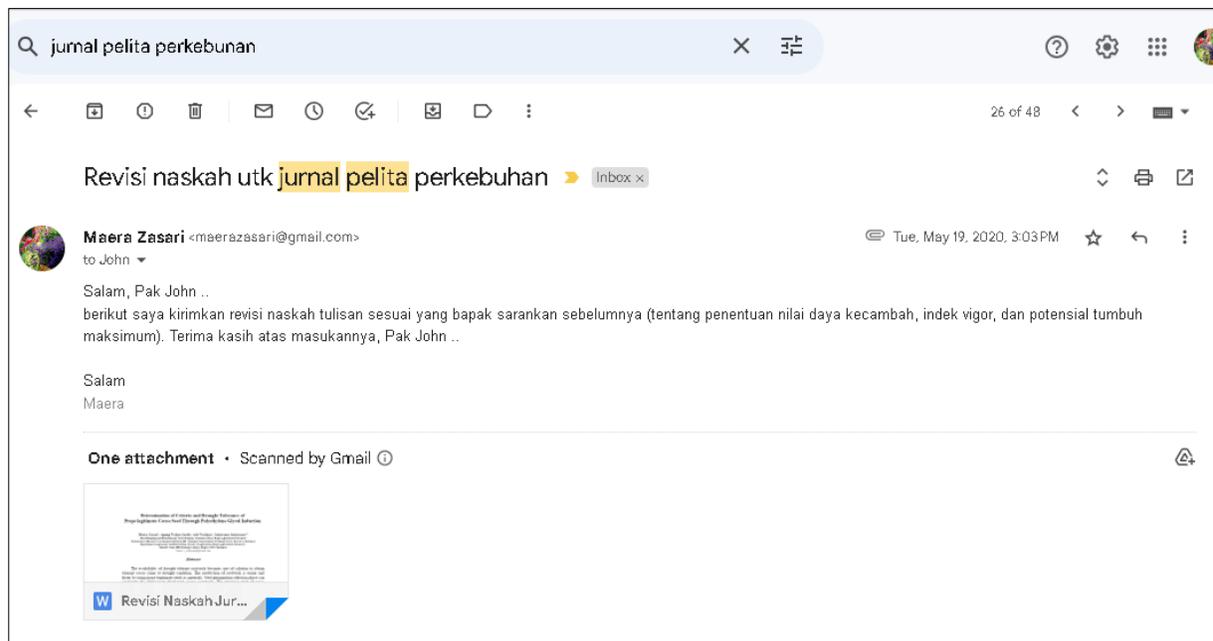
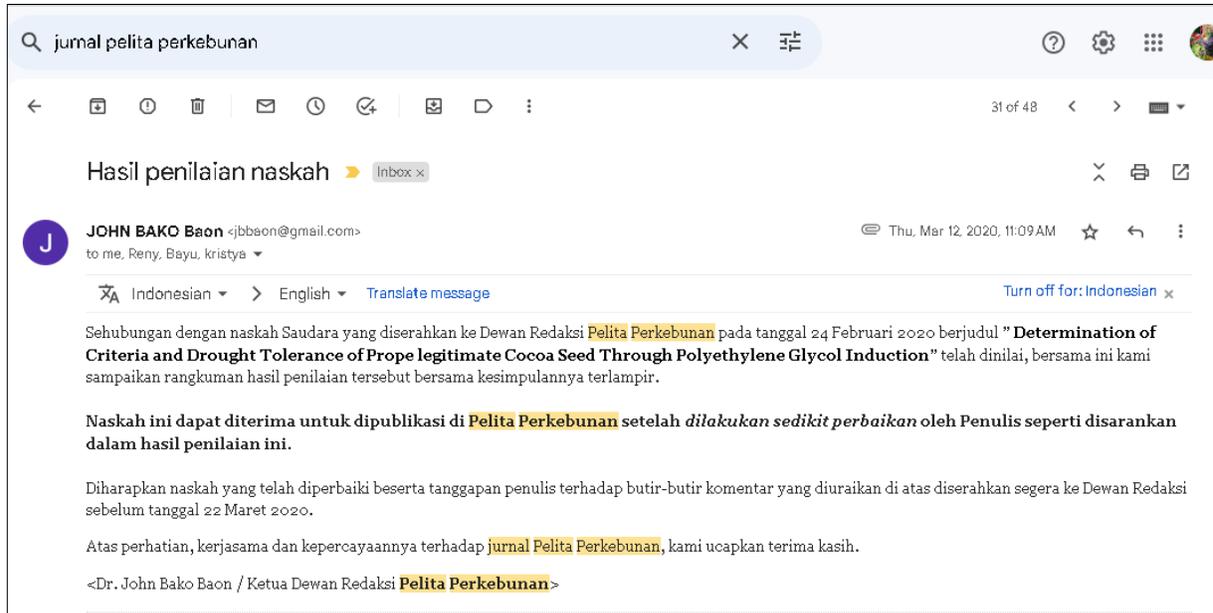
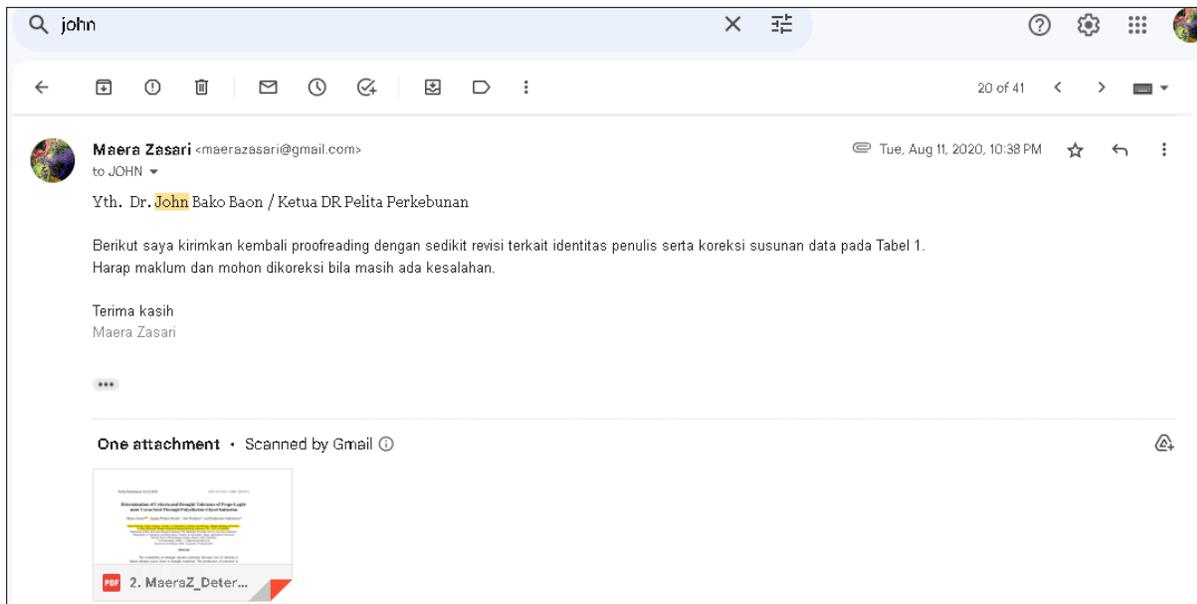
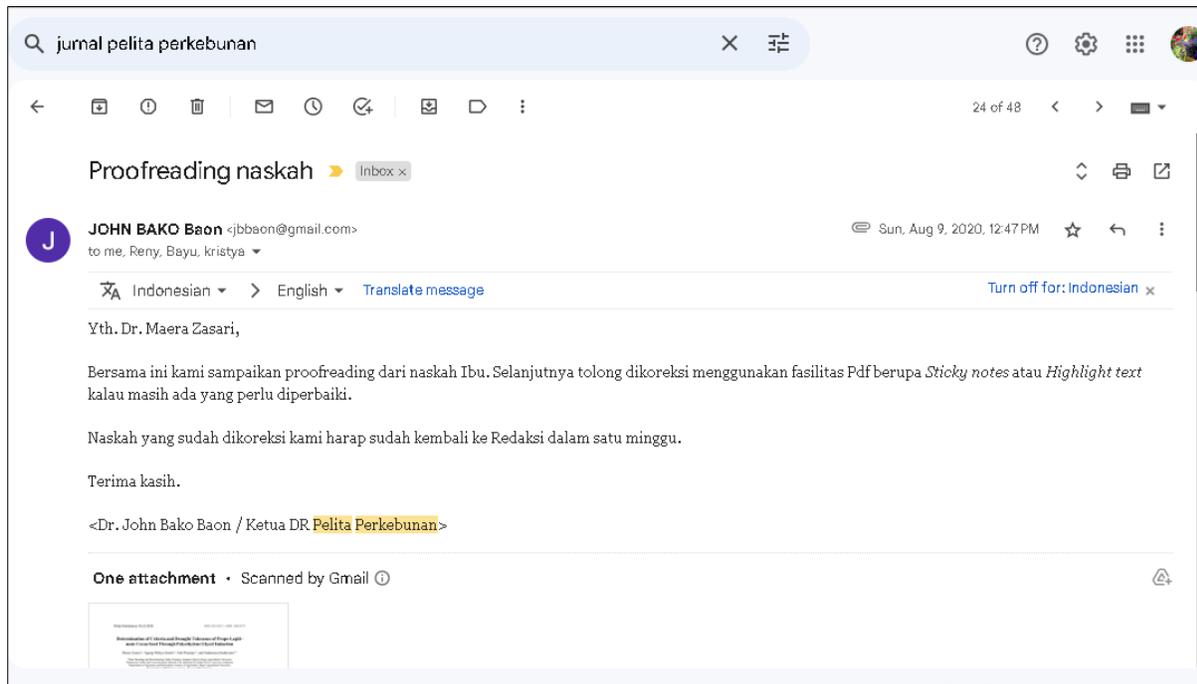
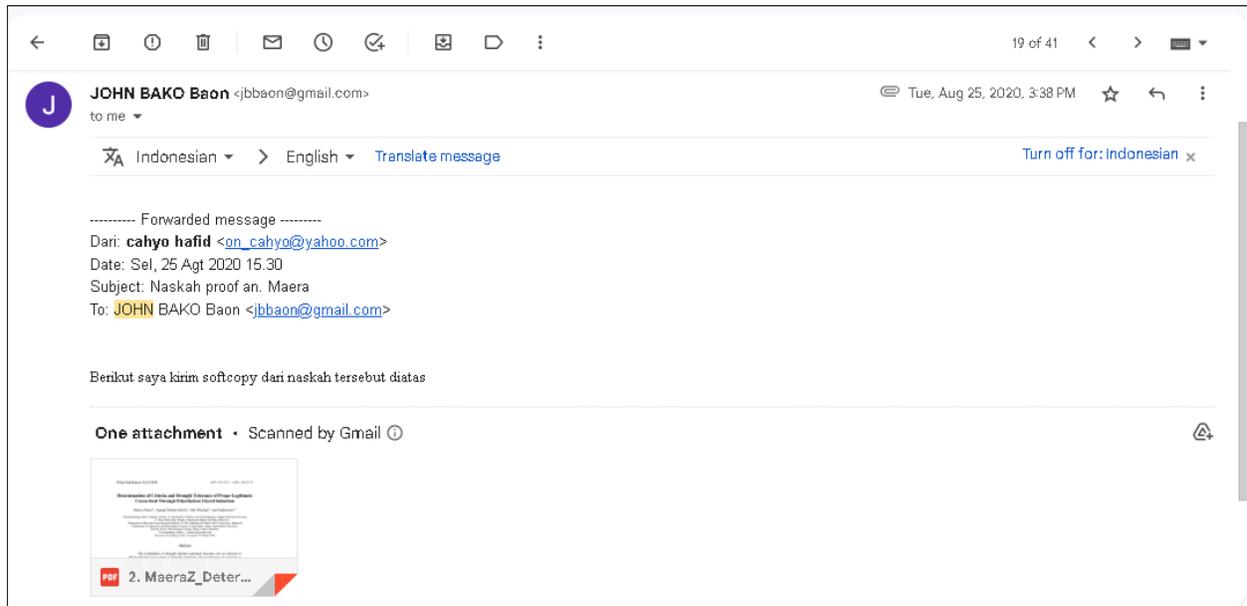


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Determination of Criteria and Drought Tolerance of Prope-Legitimate Cocoa Seed Through Polyethylene Glycol Induction

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Abstract

The availability of drought tolerant rootstock becomes one of solution to obtain tolerant cocoa clone at drought condition. The production of rootstock is easier and faster by using prope-legitimate seeds as plant materials. Seed germination selection phase can accelerate the obtainment of tolerant cocoa rootstocks. The tolerance trait of prope-legitimate seeds can be determined by seed germination on media induced by polyethylene glycol (PEG) solution. To determine the tolerant seeds, it is effective by using a specific character as selection criteria. This study aimed to obtain criteria and selection character to determine drought tolerant characteristic of prope-legitimate seed through PEG 6000 induction in the germination phase. The research was conducted at the Agronomy Laboratory of the Indonesian Coffee and Cocoa Research Institute, Jember, East Java, Indonesia, used split plot design with five replications as experimental design. The main plot was solution of 0% and 6% PEG 6000, while the subplot was prope-legitimate