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THE EFFECT OF GROWTH ACCELERATE HORMONE ON SEED DORMANCY AND QUALITATIVE AND QUANTITATIVE CHARACTERISTICS OF THE HERBAL BALNGO LALLEMANTIA ROYLEANA (WALL.) BTH

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One of the most important species of medicinal plants is Balngo (Lallemantia royleana) with Labiates families that with multiple properties, such as a heart tonic, analgesic, sedative, pain, bloating, constipation, cramps, abdominal approach, dry cough, diarrhea demo, fainting and madness, cooling, and asthma, because of mucilage has an important role in controlling reflux disease. The factorial experiment with two factors Masses (species, Shiraz, Mashhad and Isfahan) and acetylsalicylic acid (ASA) (zero, ..., ..., and ..., mM) in a completely randomized design (CRD) with replications was conducted at the laboratory control of seed technology in Shahed University. The results showed that levels of acetylsalicylic acid (ASA) and Balngo masses had significantly ($P \le 0.01$) effects on normal and abnormal seedling, seeds germination percent, germination coefficients', root to shoot ratio (R/S), mean germination time (MGT) ($P \le 0.05$), weight indicators Vigor (P \leq 0.05), fresh weight of seedlings, allometry coefficient, sensitivity indices, dry weight and proline and soluble sugar content. Masses of Shiraz and Mashhad with AT and DA germination percent had the highest germination response to treatment acetylsalicylic (ASA) acid respectively. Hormone concentrations with increasing negative effects of sleep on the germination index, but the rate of seed germination and seedling fresh weight increased. Based on test results, the local population of Isfahan and Shiraz in response to hormones was better other than superior ($P \le 0.01$). Acetylsalicylic acid level of "" mM on population of Isfahan had the highest germination rate, proline and soluble sugar content. The study also showed the sensitivity of the dormant reaction components of balngo was broken by optimum Acetylsalicylic acid level and seedling growth.

DETERMINATION OF ARTEMISININ IN SOME OF IRANIAN ARTEMISIA SPECIES

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References

- [1] Baraldi, R.; Isacchi, B.; Predieri, S.; Marconi G.; Francesco Vincieri, F.; Bilia, A. R. Biochem. System. Ecol. ۲۰۰۸, ۲۶, ۳۴۰-۳۴۸.
- [Y] Wang, H.; Ma, Ch.; Li Zh.; Ma, L.; Wang, H.; Ye, H.; Xu, G.; Liu, B. Ind. Crop. Prod. Y. Y., TI, YIY-YIA.
- [r] Jha, P.; Ram, M.; Khan, M. A.; Kiran, U.; Mahmooduzzafar, Abdin, M. Z. Ind. Crop. Prod. 1011, 77, 199-101.
- [*] Mozaffarian, V. A dictionary of Iranian plant names, Farhang Moa'ser, Tehran. 1998.