

**The Evaluation of Seed Dormancy and Germination of Two Species of Iranian Medicinal Plants** (Poster)

Abdollah Ghasemi Pirbalouti<sup>1</sup>, Ahmad Reza Golparvar<sup>2</sup>

<sup>1</sup> Department of Plant Biology, Faculty of Agriculture, Islamic Azad University of Shahrekord Branch, Iran

<sup>2</sup> Department of Agronomy and Plant Breeding, Faculty of Agriculture, Islamic Azad University of Khorasgan Branch, Iran

**Introduction**

Seed germination is an important event in the life of every sexually reproduced higher plant. The seed of many medicinal plant species have dormant; they do not germinate unless specific environmental signals or events occur.

**Objectives**

- The effect of chemical different treatments on seed dormancy breaking of Danaei thyme (*Thymus daenensis*) and yarrow (*Achillea millefolium*)
- Evaluation of seed germination and growth of Danaei thyme (*Thymus daenensis*) and local yarrow (*Achillea millefolium*)

**Methods**

This study was conducted completely randomized design (CRD) with three replications in 2004. These treatments were: 1-gibberellic acid (GA3) 100 PPM, 2- gibberellic acid 500 PPM, 3-gibberellic acid 1000 PPM, 4-KNO<sub>3</sub> 0.2%, 5-Thio urea 1 Molar and 5-control (net water). Dark / light regime (dark 16 hr/ light 8 hr) and alternative temperature (15 °C / 20 °C) for seeds of all treatments were applied. Seeds were placed in germinator (growth chamber) with 95% humidity for period of 15 days

**Results**

The results of analysis of variance showed that the effect of various treatments on Danaei thyme and local yarrow seeds germination percentage were highly significant different ( $P < 0.01$ ).

**Conclusion**

Treatments of KNO<sub>3</sub> 0.2% and gibberellic acid 500 PPM have the highest and Thio urea 1 Molar the lowest seed germination percentage.

**Keywords:** Danaei thyme and local yarrow

**Selected References**

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**Presenting Author:** Abdollah Ghasemi Pirbalouti, [ghasemi955@yahoo.com](mailto:ghasemi955@yahoo.com)

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