PRODUCTION AND BREEDING OF JERUSALEM ARTICHOKE SEED IN VITRO

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ABSTRACT

It was studied in-vitro by the method of obtaining high-quality seed material from the cells of the apical meristem and from the sprouts of botanical seeds, as a method of reproduction for faster growth of cells from callus tissue. Rapid reproduction of seedlings in in-vitro, the growth, development and multiplication factor of seedlings in various schemes of planting in the ground, obtaining seed material with various methods in-vitro make it possible to provide the industry with high-quality seed material, raw materials for the food and pharmaceutical industries and has a scientific get out.

KEYWORDS: *Jerusalem Artichoke, Seed And Marketable Tuber, Variety, In-Vitro, Intensive Reproduction, Nutrient Medium, Callus Tissue, Regeneration, Microclimate, Inulin, Dietary Product, Local Raw Materials.*

LITERATURE

1. Abdukarimov DT Komilova M - Jerusalem artichoke is a valuable culture with great potential. Moscow. f. Aspie. Is the applicant. No. 7 2001,
2. Ostanaqulov T.E., A.A. Elmurodov - Scientific bases of technology of artichoke cultivation in the Zarafshan valley and features of the organization of seed production. Tashkent State University of Economics. November 5, 2011. Jerusalem artichoke industry in Uzbekistan: achievements and prospects. Scientific collection.
3. Elmuradov AA, Berdimuratov EH - Jerusalem artichoke is a high-quality nutritious and medicinal plant. Uzbek Agro ILM Special Issue of the Agricultural Journal, 2019, №5. Page 34,
4. Rustamov AS, Amanova ME Technology of cultivation of Fayz-Baraka and Miracle varieties of Jerusalem artichoke in the typical gray soils of Tashkent region.// // Potential of the Jerusalem artichoke industry created in Uzbekistan: results and prospects of corporate innovation cooperation. -Resp scientific-practical conference. - Tashkent. - 2013. P. 52-57.
5. Mavlyanova R.F. Jerusalem artichoke culture and its potential for use. // Potential of the Jerusalem artichoke industry created in Uzbekistan: results and prospects of corporate innovative cooperation.- Resp. scientific-practical conf. - Toshkent.- 2013. - Б. 31-40.

6. Khodiev B.Yu., Kasimov M.S. The potential for the production of competitive products based on waste-free technology from Jerusalem artichoke in the Republic of Uzbekistan. ilmiy-amaliy conf. - Toshkent. - 2013. - B. 6-16.

7. Viloyat Jamaliddinovna Jamalidinnova -Storage, drying and processing of jerusalem artichoke tubers in the conditions of Zarafshan valley.- Novateur publications international journal of innovations in engineering research and technology [IJIERT] ISSN: 2394-3696 Website: ijiert.org VOLUME 7, ISSUE 6, June-2020.

Web sites:

1. http://www.trc.zootechnie.fr/node/544)FNA, 2006.

2. http://www.trc.zootechnie.fr/node/544)FAO'sAnimal Feed Resources Information System (1991-2002)

3. http://www.angusstewart.com.au/angus-stewart-articles/45-edible-gardening-growing-fruit-and-vegetables/226-how-to-grow-jerusalem-artichoke-helianthus-tuberosus

4. http://www.appropedia.org/Root_Crops_20.Jerusalem artichoke (Helianthus tuberosus) Root crops (NRI, 1987, 308 p.)

5. http://www.b-and-t-world-seeds.com/clientupdate.asp
http://www.botanical.com/botanical/mgmh/a/artic065.h