

เอกสารอ้างอิง

นิมิต วรสูต และสนั่น จอกโลย. 2549. อินนูลิน: สารสำคัญสำหรับสุขภาพในแก่นตะวัน. แก่นเกษตร 34: 85-91.

พรพิมล เจีระนัยปรีเปรม สุพร นุชคำรงค์ และสนั่น จอกโลย. 2554. การปรับปรุงศักยภาพการขยายพันธุ์แก่นตะวัน (เยรูชาเลิม อาร์ติช็อก) จากลำต้นได้ดีนกีบอาหารและการวิเคราะห์โมเลกุลตัวบ่งชี้. รายงานโครงการวิจัย ทุนวิจัยประเภทอุดหนุนทั่วไป ประจำปีงบประมาณ 2552.

เยาวนาลัย คำเจริญ, ศรีสุดา ศรีเหล่าไพรศาล และ พัฒนพงษ์ ชิงค์. 2549. บทบาทของแก่นตะวัน (Jerusalem artichoke) ในอาหารสัตว์. แก่นเกษตร 34: 92-103.

สนั่น จอกโลย, นิมิต วรสูต, จิรยุทธ ดาวเรศ่า และรัชนก มีแก้ว. 2549ก. ศักยภาพการให้ผลผลิตและลักษณะทางการเกษตรของแก่นตะวันพันธุ์ต่างๆ ในสภาพการเพาะปลูกในภาคตะวันออกเฉียงเหนือของประเทศไทย. แก่นเกษตร 34: 139-150.

สนั่น จอกโลย, รัชนก มีแก้ว, วิภาวรรณ ตุลา และกัวลัย เกยมมาลา. 2549خ. อิทธิพลของ การใช้ส่วนขยายพันธุ์ต่อการงอก การเจริญเติบโต และการให้ผลผลิตของแก่นตะวัน (*Helianthus tuberosus* L.). แก่นเกษตร 34: 151-156.

สนั่น จอกโลย, วิภาวรรณ ตุลา, รัชนก มีแก้ว และกัวลัย เกยมมาลา. 2549ค. อิทธิพลของวิธีการซักนำไปเกิดต้น อ่อนของหัวแก่นตะวัน (*Helianthus tuberosus* L.). แก่นเกษตร 34: 157-163.

Acar R., Ada R., and Özköse A. 2011. Effects of different mowing dates of plant top on tuber yield of Jerusalem artichoke (*Helianthus tuberosus* L.). Afr J Biotechnol 10: 9036-9040.

Bagni N., Malucelli B., and Torrigiani P. 1980. Polyamines, storage substances and abscisic acid-like inhibitors during dormancy and very early activation of *Helianthus tuberosus* L. tuber tissues. Physiologia Plantarum 49: 341-345.

Bajji M., M'Hamdi M., Gastiny F., Rojas-Beltran J.A., and du Jardin P. 2007. Catalase inhibition accelerates dormancy release and sprouting in potato (*Solanum tuberosum* L.) tubers. Biotechnol Agron Soc Environ 11: 121-131.

Bekers M., Grube M., Upite D., Kaminska E., Linde R., Scherbaka R., and Danilevich A. 2007. Carbohydrates from Jerusalem artichoke powder suspension. Nutr Food Sci 37: 42-49.

Benkeblia N. and Shiomi N. 2004. Chilling effect on soluble sugars, respiration rate, total phenolics, peroxidase activity and dormancy of onion bulbs. Sci Agric (Piracicaba, Braz)61: 281-285.

Bennici A., Cionini P.G., Gennai D., and Cionini G. 1982. Cell cycle in *Helianthus tuberosus* tuber tissue in relation to dormancy. Protoplasma 112: 133-137.

- Borrebaeck C.A. 1984. Detection and characterization of a lectin from non-seed tissue of *Phaseolus vulgaris*. *Planta* 161: 223-228.
- Denoroy P. 1996. The crop physiology of *Helianthus tuberosus* L. : a model oriented view. *Biomass Bioenerg* 11: 11-32.
- Esteban R., Dopico B., Munoz F.J., Romo S., and Labrador E. 2002. A seedling specific vegetative lectin gene is related to development in *Cicer arietinum*. *Physiologia Plantarum* 114: 619-626.
- Granneman S. and Baserga S.J. 2004. Ribosome biogenesis of knobs and RNA processing. *Exp Cell Res* 296: 43-50.
- Hood EE, Shen QX, and Varner JE. 1988. A developmentally regulated hydroxyproline-rich glycoprotein in maize pericarp cell wall. *Plant Physiol* 87: 138-142.
- Hoson T. and Masuda Y. 1987. Effect of lectins on auxin-induced elongation and wall loosening in oat coleoptile and azuki bean epicotyl segments. *Physiologia Plantarum* 71: 1-8.
- Janoš B. and Vladimir S. 2001. Variability and stability of tuber yield of Jerusalem artichoke (*Helianthus tuberosus* L.). *Helia* 24: 25-32.
- Jordan E.G. and Chapman J.M. 1971. Ultrastructural changes in the nucleoli of Jerusalem artichoke (*Helianthus tuberosus*) tuber discs. *J Exp Bot* 22: 627-634.
- Kamisaka S. and Masuda Y. 1971. Auxin-induced growth of tuber tissue of Jerusalem artichoke VI. Biochemical changes in chromatin during aging and cell expansion. *Plant Cell Physiol* 12:201-209.
- Kanematsu S. and Asada K. 1991. Chloroplast and cytosol isozymes of cuzn-superoxide dismutase: their characteristic amino acid sequences. *Free Radic Res Commun* 12-13: 383-390.
- Karuppanapandian T., Moon J.-C., Kim C., Manoharam K., and Kim W. 2011. Reactive oxygen species in plants: their generation, signal transduction, and scavenging mechanisms. *Aus J Crop Sci* 5: 709-725.
- Kays S.J. 2008. Biology and Chemistry of Jerusalem Artichoke: *Helianthus tuberosus* L. CRC Press.
- Kelly-Quagliana K.A., Nelson P.D., and Buddington R.K. 2003. Dietary oligofructose and inulin modulate immune functions in mice. *Nutr Res* 23: 257-267.
- growth of broiler chickens and protect them against endotoxins and potential cecal pathogens. *J Food Prot* 66: 2171-2175.
- Knox J.P. 1992. Cell adhesion, cell separation and plant morphogenesis. *The Plant J* 2: 137-141.
- Laemmli U.K. 1970. Cleavage of structural proteins during the assembly of the head of bacteriophage T4. *Nature* 227: 680-685.

- Lim K.B., Lee H.J., Lee S.R., Lee J.I., and Ahn S..D. 1990. Seed coat removal and seed germination in *Helianthus tuberosus* L.. J Oriental Bot Res 3: 31- 40.
- Lowry O.H., Rosebrough N.J., Farr A.L., and Randall R.J. 1951 Protein measurement with the Folin phenol reagent. J Biol Chem 193: 265-275.
- Ma X.Y., Zhang L.H., Shao H.B., Xu G., Zhang F., Ni F.T., and Breistic M. 2011. Jerusalem artichoke (*Helianthus tuberosus*) a medicinal salt-resistant plant has high adaptability and multiple-use values. J Med Plant Res 5: 1275-1282.
- McLaurin W. J., Somda Z.C., and Kays S. J. 1999. Jerusalem artichoke growth, development, and field storage. I. Numerical assessment of plant part development and dry matter acquisition and allocation. J Plant Nutr 22: 1303-1313.
- Mittler R. 2002. Oxidative stress, antioxidants and stress tolerance. Trends in Plant Science 7: 405-410.
- Møller I.M. 2001. Plant mitochondria and oxidative stress: Electron transport, NADPH turnover and metabolism of oxygen species. Annu Rev Plant Physiol Plant Mol Biol 52: 561-591.
- Nakagawa R., Okumura Y., Kawakami M., Yasokawa D., and Nagashima K. 2003. Stimulated accumulation of lectin mRNA and stress response in *Helianthus tuberosus* callus by methyl jasmonate. Biosci Biotech Biochem 67: 1822-1824.
- Nolan K.A., Gurney J.R., Roberts L., and White A.M. 2002. A novel method to archive plant material for DNA analysis. Tested studies for laboratory teaching, Vol 23 (M.A.O'Donnell, Editor) pp. 17-28.
- Palmer M.V. and Gunning B.E.S. 1984. Cytokinin-induced mitosis in cultured explants of *Helianthus tuberosus* L. tuber tissue. Aust J Plant Physiol 11: 1– 6.
- Paus E., Nilsen J., and Juntila O. 1986. Bud dormancy and vegetative growth in *Salix polaris* as affected by temperate and photoperiod. Polar Biol 6: 91-95.
- Perry T.O. 1971. Dormancy of trees in winter. Science 171: 29-36.
- Perry T.O. and Wang C. 1960. Genetic variation in the winter chilling requirement date of dormancy break for *Acer rubrum*. Ecology 41: 790-794.
- Pimsaen W., Jogloy S., Suriharn B., Kesmala T., Pensuk V., and Patanothai A. 2010. Genotype by environment (GxE) interactions for yield components of Jerusalem artichoke (*Helianthus tuberosus* L.). Asian J Plant Sci 9: 11-19.
- Phillips R. and Dodds J.H. 1977. Rapid differentiation of tracheary elements in cultured explants of Jerusalem artichoke. Planta 135: 207-212.

- Rastogi V.B. 2009. Chapter 8: Differentiation, organ formation, plant growth, photomorphogenesis, senescence and abscission. In: A Complete Course in ISC Biology. Pitambar Publishing Company Ltd., Educational Publishers, India.
- Roberts D.D. and Goldstein U. 1983. Adenine binding sites of the lectin from lima bean (*Phaseolus vulgaris*). *J Biol Chem* 258: 13820-13824.
- Sachs R.M., Low C.B., Vasavada A., Sully M.J., Williams L.A., and Ziobro G.C. 1981. Fuel alcohol from Jerusalem artichoke. California agriculture, September-October: 4-6.
- Saengthongpinit W. and Sajjaanantakul T. 2005. Influence of harvest time and forage temperature on characteristics of inulin from Jerusalem artichoke (*Helianthus tuberosus*) tubers. *Postharvest Technol* 37: 97-100.
- Sambrook J. and Russell D.W. 2001. Molecular cloning: a laboratory. Third edition, CSHL Press.
- Seiler G.J. 1993. Forage and tuber yields and digestibility of selected wild and cultivated genotypes of Jerusalem artichoke. *Agron J* 85:29-33.
- Sharon N. and Lis H. 1972. Lectins: cell agglutinating and sugar-specific proteins. *Science* 177: 949-959.
- Soja G. and Dersch G. 1992. Plant development and hormonal status in the Jerusalem artichoke (*Helianthus tuberosus* L.). *Industrial Crops and Products* 1: 219-228.
- Stoop J.M., Van Arkel J., Hakkert J.C., Tyree C., Caimi P.G., and Koops A. J. 2007. Developmental modulation of inulin accumulation in storage organs of transgenic maize and transgenic potato. *Plant Sci* 173: 172-181.
- Suseelan K.N., Mitra R., Pandey R., Sainis K.B., and Krishna T.G. 2002. Purification and characterization of a lectin from wild sunflower (*Heianthus tuberosus* L.) tubers. *Arch Biochem Biophys* 407: 241-247.
- Suttle J.C. 2004. Physiological regulation of potato tuber dormancy. *Amer J of Potato Res* 81: 253-262.
- Trappe J.M., Molina R., and Castellano M. 1987. Reactions of mycorrhizal fungi and mycorrhiza formation to pesticides! *Ann Rev Phytopathol* 22: 331-359.
- Van Damme E.J., Barre A., Mazard A.M., Verhaert P., Hormann A., Debray H., Rouge P., and Peumans W.J. 1999. Characterization and molecular cloning of the lectin from *Helianthus tuberosus*. *Eur J Biochem* 259: 135-142.
- Van Damme E.J., Barre A., Rouge P., and Peumans W.J. 2004. Cytoplasmic/nuclear plant lectins: a new story. *Trends in Plant Science* 9: 484-489.

- Vandenborre G., Smagghe G., and Van Damme E.J.M. 2011. Plant lectins as defense proteins against insects. *Phytochemistry* 72: 1538-1550.
- Venuat B., Goupil P. and Ledoigt G. 1993. Molecular cloning and physiological analysis of an invertase isoenzyme in *Helianthus tuberosus*. *Biochem Mol Biol Int* 31(5): 955-966.
- Volk G.M. and Richards K.M. 2006. Preservation methods for Jerusalem artichoke cultivars. *HortScience* 41: 80-83.
- Westley L.C. 1993 The effect of inflorescence bud removal on tuber production in *Helianthus tuberosus* L. (Asteraceae). *Ecology* 74: 2136-2144.
- Wiersema S.G. 2000. Physiological development of potato seed tubers. Technical Information Bulletin 20, pp. 1-16.
- Yoshihara T., Matsuura H., Ichihara A., Kikuta Y., and Koda Y. 1991. Tuber forming substances of Jerusalem artichoke (*Helianthus tuberosus*). In Current Plant Science and Biotechnology in Agriculture: Progress in plant growth regulation, edited by Karssen C.M., Van Loon L.C., and Vreugdenhil D., Kluwer Academic Publishers, pp. 286-290.