

Patent Selections:

The patents annotated in this section have been selected from various patent data bases. These recent patents are relevant to the articles published in this journal issue, categorized by different biotechnology methods, processes and techniques involved.

AGRICULTURAL & MEDICINAL PLANT BIOTECHNOLOGY

1. Taman-Chardonnens, A.A., Puzio, P., Mckersie, B. A plant cell comprising enzymatic activities for converting glyoxylate to glycerate. **EP2145960 (2010)**.
2. Fluegge, U.-I., Maurino, V.G. Nucleic acid sequences encoding proteins associated with abiotic stress response and plant cells and plants with increased tolerance to environmental stress. **EP2143798 (2010)**.
3. Lee, M., Nuccio, M., Clarke, J. Plant regulatory sequences. **WO2010008760 (2010)**.
4. Sela, I., Peretz, Y., Mozes-Koch, R. Plant expression constructs comprising and uses thereof. **WO2010004561 (2010)**.
5. Orvar, B.L., Mantyla, E. Industrial plant-based production of animal-free recombinant proteins in defined environment. **WO2010001418 (2010)**.
6. Baghaei-Yazdi, N., Javed, M., Hartley, B. Ethanol production by lactate dehydrogenase-deleted thermophilic microorganisms. **GB2461495 (2010)**.
7. Werner, S., Marillonnet, S., Klimyuk, V., Gleba, Y. Method of controlling cellular processes in plants. **EP1563079 (2010)**.
8. Gonsalves, D., Xue, B., Krastanova, T., Ling, K.-S., Fuchs, M. Nepovirus resistance in grapevine. **EP1026941 (2010)**.
9. Baszczynski, C.L., Lyznik, L.A., Gordon-Kamm, W.J., Guan, X. Mobilization of viral genomes from T-DNA using site-specific recombination systems. **EP1034286 (2010)**.
10. Sando, T., Watanabe, N., Tamaizumi, K., Fukuzaki, E., Kobayashi, A., Nadirman, H., Wahyu, P. Genes of enzymes participating in vitamin E biosynthesis in para rubber tree. **EP2143793 (2010)**.
11. Reuzeau, C., Hatzfeld, Y., Frankard, V., Sanz, M.A.I. Plants having enhanced yield-related traits and a method for making the same by overexpressing a polynucleotide encoding a TFL1-like protein. **WO2010000794 (2010)**.
12. Datta, A., Chakraborty, S., Chakraborty, N., Ghosh, S., Meil, S.V. Polynucleotide sequence of fruit softening associated A-mannosidase and its uses for enhancing fruit shelf life. **WO2010004582 (2010)**.
13. Crowley, J.H., Goldman, B.S., Huang, J., Qi, Q., Rapp, W.D. Compositions and methods for enhanced amino acid levels in plants. **WO2010002876 (2010)**.
14. Gilbertson, L., Johnson, S.J. Methods and vectors for producing transgenic plants. **WO2010009353 (2010)**.
15. Froberg, C., Schmidt, R.-C. Wheat starch and wheat flours and foodstuffs containing these wheat starch/wheat flours. **WO2010003701 (2010)**.
16. Altier, D.J., Dahlbacka, G., Herrmann, R., Hunter-Cevera, J., Mccutchen, B.F., Presnail, J.K., Schepers, E., Rice, J.A., Simmons, C.R., Torok, T., Yalpani, N., Elleskaya, I.A. Antifungal polypeptides. **EP2113512 (2009)**.
17. Datta, A., Chakraborty, S., Chakraborty, N., Ghosh, S., Meil, S.V. Polynucleotide sequence of fruit softening associated A-mannosidase and its uses for enhancing fruit shelf life. **WO2010004582 (2010)**.
18. Orvar, B.L., Mantyla, E. Industrial plant-based production of animal-free recombinant proteins in defined environment. **WO201000141 (2010)**.
19. Sato, T., Sano, E. Process for producing oligo-saccharide chains. **EP1384786B1 (2010)**.
20. Ferrara, N., Gerber, H.-P., Liang, X.H. Inhibitors of angiotensin-like 4 protein, combinations, and their use. **EP1771474B1 (2010)**.
21. Maeda, M., Yaguchi, N. Novel hemopoietin receptor protein NR10. **EP1188830B1 (2010)**.

TRANSGENIC PLANTS

1. Takagi, M., Ikeda, M. Dwarf transgenic plant, and gene for induction of dwarfing. **WO2010024269A1 (2010)**.
2. Unkefer, P.J., Anderson, P.S., Knight, T.J. Plant glutamine phenylpyruvate transaminase gene and transgenic plants carrying same. **WO2010025465A1 (2010)**.
3. Hinchey, B.S. Stress-inducible plant promoters. **US7674952 (2010)**.
4. Chan, R.L., Gonzalez, D.H., Dezar, C.A., Rueda, E.C. DNA constructs that contain *Helianthus annuus* Hahb-10 gene coding sequence, method for generating plants with a shortened life cycle and a high tolerance to herbicidal compounds and transgenic plants with that sequence. **US7674954 (2010)**.
5. Chan, R.L., Gonzalez, D.H., Dezar, C.A., Gago, G.M. Transcription factor gene induced by water deficit conditions and abscisic acid from *Helianthus annuus*, promoter and transgenic plants. **US7674955 (2010)**.
6. Patell, V., Morawal, V., Mahesh, N., Suhas, R., Manjula, S.S. Glutamate decarboxylase (GAD) transgenic plants with enhanced nitrogen uptake and utilization. **WO2010007496A3 (2010)**.

SALT RESISTANT CROPS

1. Haring, M.A., Simons, A.F.M., Vossen, J.H., Cornelissen, B.J. Nucleotide sequences coding for signal transduction components involved in plant pathogen defence. *EP1282717B1 (2010)*.
2. Taman-Chardonens, A.A., Puzio, P., Mckersie, B. Nucleic acid sequences encoding proteins associated with abiotic stress response and plant cells and plants with increased tolerance to environmental stress. *EP2145960 (2010)*.
3. Crowley, J.H., Goldman, B.S., Huang, J., Qi, Q., Rapp, W.D. Compositions and methods for enhanced amino acid levels in plants. *WO2010002876 (2010)*.
4. Reuzeau, C., Hatzfeld, Y., Frankard, V., Sanz, M.A.I. Plants having enhanced yield-related traits and a method for making the same by overexpressing a polynucleotide encoding a TFL1-like protein. *WO2010000794 (2010)*.
5. Lee, M., Nuccio, M., Clarke, J. Plant regulatory sequences. *WO2010008760 (2010)*.
6. Sampson, K.S., Agarwal, S., Campbell, C., McNulty, B., Tomso, D.J., Carozzi, N., Hargiss, T., Koziel, M.G., Duck, N.B., Heinrichs, V. AXMI-115, AXMI-113, AXMI-005, AXMI-163 AND AXMI-184: insecticidal proteins and methods for their use. *WO2010003065 (2010)*.
7. Aukerman, M., Allen, S.M., Loussaert, D., Luck, S., Sakai, H., Tingey S.V. Plants having altered agronomic characteristics under nitrogen limiting conditions and related constructs and methods involving genes encoding lntI polypeptides and homologs thereof. *WO2010006010 (2010)*.

ANTHOCYANIDINS

1. Nair, M.G., Jayaprakasam, B., Olson, L.K., Vareed, S.K. Insulin secretion by anthocyanins and anthocyanidins. *EP1773356 (2010)*.
2. Bombardelli, E. Compositions for the treatment of diseases of the oral cavity and upper respiratory tract. *EP1687015 (2010)*.
3. Tempesta, M.S., Glinski, J.A., Killday, K.B. Novel compositions containing isolated tetrameric type a proanthocyanadin and methods of use and manufacture. *WO2010017213 (2010)*.
4. Philippe, D., Blum-Sperisen, S., Roger, O., Crespy, V., Offord, C.E., Ameye, L., Marin-Kuan, M. Rooibos and inflammation. *WO2010000564 (2010)*.

BRAIN TUMOR

1. Weickmann Dirk, Pharmaceutical composition, use of the pharmaceutical composition for treating a brain tumor, production process thereof and a kit of parts comprising the pharmaceutical composition. *EP2155335 (2010)*.
2. Wels, M., De Barros, C.G.H., Huber, M., Comanicu, D. Method and system for brain tumor segmentation

in 3D magnetic resonance images. *US2010027865 (2010)*.

3. Kobayashi, T., Morino, T. Hyperthermic therapy kit for malignant tumor comprising anti-regulatory-T-cell antibody and magnetic microparticle, and hyperthermic therapy using the kit. *WO2010026638 (2010)*.
4. Toretsky, J.A., Uren, A., Brown, M.L., Kong, Y. Targeting of EWS-FLI1 as anti-tumor therapy. *US2010004179 (2010)*.
5. Lenz, H.-J. Germline polymorphisms in the angiogenic pathway predict tumor recurrence in cancer therapy. *EP2155908 (2010)*.
6. Hochstrasser, D.F., Sanchez, J.-C. Germline polymorphisms in the angiogenic pathway predict tumor recurrence in cancer therapy. *EP2155908 (2010)*.
7. Schuster, T., Paulini, K., Schmidt, P., Baasner, S., Polymeropoulos, E., Guenther, E., Teifel, M. Novel tetrahydrocarbazole derivatives as ligands of G-protein coupled receptors. *EP2150558 (2010)*.
8. Guo, Y., Dai, J., Wang, H., Kou, G., Hou, S., Qian, W., Peng, L. Osteopontin functional epitopes, monoclonal antibodies against the epitopes and uses thereof. *EP2149582 (2010)*.
9. Gurney, A.L., Hoey, T.C., Bruhns, M.F., Axelrod, F.T. NOTCH1 receptor binding agents and methods of use thereof. *WO2010005567 (2010)*.
10. Smith, R.A., Monia, B.P. Modulation of transthyretin expression for the treatment of CNS related disorders. *WO2010017509 (2010)*.
11. Aoki, K.R., Cui, M., Jenkins, S. Use of botulinum toxin in the treatment of neuralgia pain. *EP1604680 (2010)*.
12. Alvarez, V.L. Use of 131i-tm-601 for the diagnosis and treatment of gliomas. *EP2147927A2 (2010)*.

PICHIA PASTORIS

1. Rao, S., Gruber, J.V., Brooks, G.J. Personal care composition containing "yeast/resveratrol ferment" extract. *WO2010011885 (A1)*
2. Choi, B.-K. Improved vectors and yeast strains for protein production: Ca²⁺ ATPASE overexpression. *WO2010019487 (2010)*.
3. Brevnova, E.E., Rajgarhia, V., Mellon, M., Warner, A., McBride, J., Gandhi, C., Wiswall, E. Heterologous expression of termite cellulases in yeast. *WO2010005551 (2010)*.
4. O'Keefe, B., McMahon, J.B., Gustafson, K., Takebe, Y. Antiviral activity of the protein scytovirin and methods of use. *WO2010014248 (2010)*.
5. Menart, V., Gaberc-Porekar, V., Jevsevar, S. Process for the production of increased amounts of correctly folded heterologous protein in inclusion bodies. *EP1527188 (2010)*.

THERAPEUTIC PROTEIN

1. Glas, C., Te, B.R., Kromkamp, J., Klarenbeek, G. Functional serum protein product for use in infant food and therapeutic compositions and methods for the preparation thereof. *EP2154990 (2010)*.
2. Bozzoni, I., De Angelis, F.G. Chimeric U2 snRNA molecules carrying antisense sequences against the splice junctions of the dystrophin gene and their therapeutic applications. *EP2151497 (2010)*.
3. Pajon, F.R., Guillen, N.G.E., Sardinias, G.G., Betancourt, N.L.H., Castellanos, S.L.R., Perera, N.Y., Garcia, D.D., Niebla, P.O., Caballero, M.E., Gonzalez, B.S. Protein NMB0928 and use thereof in pharmaceutical formulations. *EPI693379 (2010)*.
4. Watanabe, T., Shichiri, M. Therapeutic agent and detection reagent for arteriosclerotic disease which targets for thallusin. *EP2153840 (2010)*.