

Patent Selections:

The patents annotated in this section have been selected from various patent databases. These recent patents are relevant to the articles published in this journal issue, categorized by food additives, micro & macro-molecular food supplements, edible alternatives, food technology, nutraceuticals, healthy diet, nutritional value, calorie intake, malnutrition & related diseases, plant derivatives, agricultural technology and products, crop improvement and safety issues related to food, nutrition & agriculture.

MYCOTOXIN & EXTRACTION

1. Kawai, T., Ando, S. Information extraction rule making support system, information extraction rule making support method, and information extraction rule making support program. **US20100005049 (2010)**.
2. Malitz, S.M., Poulsen, R., Grodecki, J.F., Lutes, J.A., Bergen, Z. Semi-automatic extraction of linear features from image data. **US7653218 (2010)**.
3. Razvi, H., Denstedt, J., Foster, T.L., Butler, G.I., Fischer, F.J. Extractor with handle. **EP2147643 (2010)**.
4. Dervieux, T., Richerson, R. Methods for direct detection of individual methotrexate metabolites. **EP2148199 (2010)**.
5. Miasnikov, A., S  e, J.B., Mikkelsen, J.D., Povelainen, M., Pitkanen, V. Lipolytic enzyme: uses thereof in the food industry. **US7666618 (2010)**.
6. Lapina, V.A., Dontsov, A.E., Nasonov, I.V. Method of making sorbent, the sorbent obtained by this method and the uses of the sorbent as feed additive and medicine. **US20100015097 (2010)**.

FLAVONOIDS & CARDIOVASCULAR DISEASES

1. Conkling, M.A., Song, W., Mendu, N. Tobacco products with increased nicotine. **US7645925 (2010)**.
2. Zhuo, J., Zhang, C., Xu, M., Qian, D.-Q., Yao, W., Jalluri, R.K. Triazolotriazines as kinase inhibitors. **US7683060 (2010)**.
3. Guthrie, N., Kurowska, E.M., Manthey, J.A. Compositions and methods of treating, reducing and preventing cardiovascular diseases and disorders with polymethoxyflavones. **US7683095 (2010)**.

WINE & GRAPE JUICE

1. Bou, M., Krieger, S. Alcohol-tolerant malolactic strains for the maturation of wines with average or high PH. **US20100040730 (2010)**.

EXTRACTION PROCESS & GRAPE JUICE

1. Phillips, E.C. Improving grinding in a alumina extraction process. **WO2008147793 (2010)**.
2. Lin, S., Crotty, K.M., Azquez, N. Shape feature extraction and classification. **US7668376 (2010)**.
3. Shinjo, T., Kokubun, M. Coupled node tree save/restore method, longest consistence/shortest consistence retrieval method, bit retrieval method and memory medium. **EP2149845 (2010)**.

tence retrieval method, bit retrieval method and memory medium. **EP2149845 (2010)**.

4. Kodaka, N. Software patch application method, program, and device. **WO2010029602 (2010)**.
5. Tanaka, Y. Information processing apparatus, information processing method, and computer-readable storage medium. **US20100061638 (2010)**.
6. Wright, T.L., Luckman, J.A. Multifunctioning method utilizing multiple phases non-aqueous extraction process. **US7651532 (2010)**.

FLAVOR & CONTROLLED RELEASE

1. Campos, S.A., Swanson, S., Walker, A.L. Fused heteroaryl derivatives for use as P38 kinase inhibitors in the treatment of IA rheumatoid arthritis. **US7687532 (2010)**.
2. Rahmouni, M., Khalid, M.N., Sant, V., Tafer, A., Smith, D. Starch-based microparticles for the release of agents disposed therein. **WO2010028489 (2010)**.
3. Rose, S.D., Drummond, W.H. Method and compositions for in situ formation of protective and/or medicated films on body tissue. **US7651681 (2010)**.
4. Backes, M., Looft, J. Geranylamine derivatives of oxalic acid. **US20100080880 (2010)**.
5. Kateman, P., Brunner, C.S., Elden, R., Focht, K.A., Zirps C., Silver, J., Hao, S., Varone, A.S., Kinsley, J. Method and apparatus for producing and dispensing an aerated and/or blended food product. **EP2145545 (2010)**.
6. Tso, G.T., Martin, J., Hsing, J., Hanawalt, R. Modular flavor dispenser for use with food or beverage machines. **WO2009140349 (2010)**.
7. Siegel, S.J., Winey, K.I., Gur, R.E., Lenox, R.H. Polymer-based surgically implantable haloperidol delivery systems and methods for their production and use. **US7666445 (2010)**.
8. Masters, D.B. Protein matrix materials, devices and methods of making and using thereof. **US7662409 (2010)**.
9. Rijcken, C.J.F., Hennink, W.E., Van Nostrum, C.F. Method for the preparation of a controlled release system. **WO2010033022 (2010)**.
10. Liniger, S. Hutchison, A. Flavored and edible colored waxes and methods for precision deposition on edible substrates. **US20100055264 (2010)**.

CHITOSAN, ANTIMICROBIAL & ANTIOXIDANT ACTIVITIES

1. Hung, W.M., Bergbauer, K.L., Su, K.C., Wang, G. Water soluble, randomly substituted partial N-, partial O-acetylated chitosan, preserving compositions containing chitosan, and processes for making thereof. **US7683039 (2010).**
2. Wang, W. Crosslinking hyaluronan and chitosanic polymers. **US7651702 (2010).**
3. Jacquinet, E., Trosly, B., Perard, M.-L., Falk, U., Henning, T. Process for the preparation of aqueous suspensions of anionic colloidal silica having a neutral pH and applications thereof. **US7651719 (2010).**
4. Rieger, J., Kissel, J., Andre, V., Bouillo, N. Surface-modified metal oxides prepared by precipitation in the presence of a copolymer having N-vinylamide units, production processes and use thereof in cosmetic preparations. **US7666506 (2010).**

ANTIMICROBIAL, ANTIOXIDANT & ENZYME IMMOBILIZATION

1. Cagle, G., Abshire, R.L., Stroman, D.W., Yanni, J.M. Method of treating ophthalmic infections with moxifloxacin compositions **US7671070 (2010).**
2. Fritz, J., Mattner, F., Zauner, W., Buschle, M., Egyed, A., Vienna, A. Method of vaccination comprising administering an antigen and a cathelicidin derived antimicrobial peptide. **US7658928 (2010).**

BIOPOLYMERS & POLYSACCHARIDES

1. Gizaw, Y., Bettiol, J.-L.P., Dupont, J.S., Schechtman, L.A., Smith, S.D. Detergent composition containing SUDS boosting and suds stabilizing modified biopolymer. **WO2010033746 (2010).**
2. Kristiansen, B. Immune modulating compounds from fungi. **US7682615 (2010).**
3. Dupont, J.S., Gizaw, Y., Cimecioglu, A., Levent, T.J.S. Dual character biopolymer useful in cleaning products. **WO2010033747 (2010).**
4. Newman, J.K., Ringelberg, D.B., O'Connell, K.P., Martin, W.A., Medina, V.F., Larson, S.L. Soluble salt produced from a biopolymer and a process for producing the salt. **US20100078590 (2010).**
5. Dupont, J.S., Gizaw, Y., Cimecioglu, A.L., Thomaides, J.S. Dual character biopolymer useful in cleaning products. **US20100075880 (2010).**
6. Gizaw, Y., Bettiol, J.-L.P., Dupont, J.S., Schechtman, L.A., Smith, S.D. Detergent composition containing SUDS boosting and SUDS stabilizing modified biopolymer. **US20100075879 (2010).**
7. Ley, J., Weber, B., Krammer, G., Reiss, I., Bertram, H.-J., Galfield, I., Hoffmann-Lücke, P. Use of diacetyl dimer as an aromatic and/or flavouring substance. **US20100062030 (2010).**

MYCOTOXINS IN FOOD & FEED

1. Bedding, P.M., Pellegrini, F.L. Dietary supplement and method for increasing the colostrum immunoglobulin levels in equine mares and other animals. **US7658964 (2010).**
2. Nolte, D.D., Peng, L., Regnier, F.E., Zhao, M., Wang, X., Nolte, D.D., Varma, M., Weichel, B., Norwood, T., Sayegh, F., Zhao, M. Method and apparatus for phase contrast quadrature interferometric detection of an immunoassay. **US7663092 (2010).**
3. Ecker, D.J., Griffey, R.H., Sampath, R., Hofstadler, S.A., McNeil, J., Crooke, S.T., Blyn, L.B., Hall, T.A., Jiang, Y., Hannis, J.C., White, N., Samant, V., Eshoo, M.W., Drader, J.J. Methods for rapid forensic analysis of mitochondrial DNA and characterization of mitochondrial DNA heteroplasmy. **US7666588(2010).**
4. Ecker, D.J., Sampath, R., Blyn, L.B., Hofstadler, S.A., Hall, T.A. Methods for concurrent identification and quantification of an unknown bioagent. **US7666592 (2010).**
5. Losso, J.N., Menelaou, E., King, J.M. Isolation of aflatoxin-free lutein from aflatoxin-contaminated plants and plant products. **US7671242 (2010).**
6. Hooper, D.G. Methods and compositions for identifying yeast. **US20100068718 (2010).**
7. Serbedzija, G.N., Semino, C., Frost, D.M. Methods of screening agents for activity using teleosts. **US7687682 (2010).**

OLIVE OIL & OLIVE POLYPHENOLS

1. Skulachev, V.P., Skulachev, M.V. Pharmaceutical and cosmetic compositions for accelerated healing of wounds and other surface damages. **EP2145623 (2010).**
2. Villanova, L., Villanova, L., Fasiello, G., Merendino, A. Process for the recovery of tyrosol and hydroxytyrosol from oil mill wastewaters and catalytic oxidation method in order to convert tyrosol in hydroxytyrosol. **EP2147898 (2010).**

RECOVERY OF PHENOLS

1. Heydrich, G., Gralla, G., Ebel, K., Friedrich, M. Recovery of phenol ligands during the production of isopulegol. **US20100016642 (2010).**

OLEUROPEIN & WASTE WATERS

1. Ono, J., Higashi, T., Sato, H., Yoshihara, H. Treating agent for oxidizing agent-containing waste water, method for treating oxidizing agent-containing waste water, apparatus for treating oxidizing agent-containing waste water, purifying agent for organic solvent, method for purifying organic solvent, and apparatus for purifying organic solvent. **WO2010008072 (2010).**
2. Konishi, M. Method and apparatus for removing metal from waste water. **US20100065502 (2010).**

3. Wallace, P.S. Zero discharge waste water system for gasification plants. **WO2010014462 (2010)**.
4. Troubounis, G., Efinger, D., Gessler, W., Menke, L. Method and device for the aerobic treatment of waste water. **US20100018918 (2010)**.
5. Cripps, J.L. Waste water electrical power generating system with storage system and methods for use therewith. **US20100040415 (2010)**.
6. Dremov, O.V., Bushev, D.S. Unit for integrated waste water biological treatment. **US20100006486 (2010)**.
7. Yamasaki, K., Sakata, K., Chuhjoh, K. Water treatment method and water treatment system. **US7662288 (2010)**.
8. Moure, A. Heating system with optimized recovery of waste water heat. **WO2010026352 (2010)**.
9. Frank, D.L. Semi-closed loop alga-diesel fuel photobioreactor using waste water. **US20100055765 (2010)**.
10. Andrews, J. Waste water energy system and method. **US20100052333 (2010)**.
11. González, M.J.M., Macías, D.F.A., Varela, M.R.M., Palma, L.M., García, B.C., Fernández, B.G. Method for the chemical synthesis of capsinoids. **EP2149548 (2010)**.
12. Fujii, T., Kato, M., Sakamoto, H., Shinagawa, Y., Kitano, M., Hosoe, K. Cancer therapeutic agent and anti-carcinogenic agent. **EP2123266 (2010)**.
13. Evans, A., Mckinnon, R. Nsaid-containing topical formulations that demonstrate chemopreventive activity. **EP1476127 (2010)**.
14. Wülfert, E. Modulation of prostaglandin/cyclooxygenase metabolic pathways. **EP2147673 (2010)**.

BIOLOGICAL CONTROL OF PEST

1. Al-Amidi, A.H.K. Formulation for the biological control of insect-pests. **US20100083390 (2010)**.

AGROECOSYSTEMS

1. Haynes, J.T. Determining respiratory or circulatory health condition in animals for improved management. **US7670292 (2010)**.
2. Pratt, William C. Method and system for tracking and managing animals and/or food products. **US7681527 (2010)**.

PESTICIDE

1. Smith, K., Barcay, J. Solid form sodium lauryl sulfate (SLS) pesticide composition. **WO2009147648 (2010)**.
2. Critcher, D.J., Walshe, N.D.A., Lauret, C. N-(1-arylpyrazol-4l) sulfonamides and their use as parasiticides. **US7687533 (2010)**.
3. Breuninger, D., Bastiaans, H.M.M., Von, D.W., Paulini, R., Langewald, J., Haden, E. Pesticidal mixtures comprising cyanosulfoximine compounds and spinetoram. **WO2010023171 (2010)**.

CARCINOGENESIS & CHEMOPREVENTION

1. Honda, T., Favaloro, F.G., Gribble, G.W., Sporn, M.B., Suh, N. Tricyclic-bis-enone derivatives and methods of use thereof. **US7678830 (2010)**.
2. Boehm, M.F., Heyman, R.A. Compounds having selective activity for retinoid X receptors, and means for modulation of processes mediated by retinoid X receptors. **US7655699 (2010)**.
3. Jong, L., Chao, W.-R. Analogs of indole-3-carbinol metabolites as chemotherapeutic and chemopreventive agents. **US7666897 (2010)**.
4. Thompson, T.C. Methods for the treatment of neoplastic disorders with anti-caveolin agents. **US7666412 (2010)**.
5. Landauer, M.R., Seed, T. M., Srinivasan, V. Phyto-estrogenic isoflavone compositions, their preparation and use thereof for protection against and treatment of radiation injury. **US7655694 (2010)**.
6. Gabrin, M.B., Stacey, M.S., Gallion, H., Nanavati, P., Rice, S.D., Chattopadhyay, A. Chemo-sensitivity assays using tumor cells exhibiting persistent phenotypic characteristics. **US7642048 (2010)**.
7. Mumper, R.J., Mallery, S.R., Stoner, G.D., Larsen, P.E. Compositions and methods for oral cancer chemoprevention using berry preparations and extracts. **US20100047371 (2010)**.
8. Liker, H. Method of using pomegranate extracts for increasing prostate specific antigen doubling time. **US20100068319 (2010)**.
9. Pratt, D.A., Valgimigli, L., DiLabio, G.A. Novel chain-breaking antioxidants. **US20100041683 (2010)**.