

**JULY, 2004 - 65 Gene-related Patents Issued in 4 Categories**

| <b>CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY</b> |   |   |                    |                |
|--|---|---|--------------------|----------------|
| <b>Patent Number</b>                                 | <b>Title</b>  | <b>Assignee</b>   | <b>Date Issued</b> | <b>Country</b> |
| 6,759,211  | Tumor growth inhibition- and apoptosis-associated genes and polypeptides and methods of use thereof | <b>Boehringer Ingelheim International GmbH</b>                      | 6-Jul-04           | Germany        |
| 6,767,706  | Integrated active flux microfluidic devices and methods   | <b>California Institute of Technology</b>                           | 27-Jul-04          | United States  |
| 6,767,699  | Method for the quantitation of alphavirus replicon particles  | <b>Chiron Corporation</b>   | 27-Jul-04          | United States  |
| 6,759,212  | Cell cycle-regulating proteins  | <b>Chugai Seiyaku Kabushiki Kaisha</b>                              | 6-Jul-04           | Japan          |
| 6,759,514  | Transporter polypeptide and method of producing same  | <b>Chugai Seiyaku Kabushiki Kaisha</b>                              | 6-Jul-04           | Japan          |
| 6,759,516  | Methods of identifying antigen gene sequences   | <b>Commonwealth Scientific and Industrial Research Organisation</b> | 6-Jul-04           | Australia      |
| 6,764,824  | Primers for screening schizophrenia and a method thereof  | <b>Council of Scientific and Industrial Research</b>                | 20-Jul-04          | India          |
| 6,759,224  | Nucleotide sequences which code for the sahH gene   | <b>Degussa AG</b>   | 6-Jul-04           | Germany        |
| 6,759,218  | Nucleotide sequences coding for the glbO gene   | <b>Degussa-AG</b>   | 6-Jul-04           | Germany        |
| 6,762,023  | Methods for identifying individuals at risk of developing osteoporosis                              | <b>Drexel University</b>  | 13-Jul-04          | United States  |
| 6,764,853  | Method for targeted delivery of nucleic acids   | <b>Enzon Pharmaceuticals, Inc</b>                                   | 20-Jul-04          | United States  |
| 6,762,039  | Bacillus subtilis with an inactivated cysteine protease-1   | <b>Genencor International, Inc.</b>                                 | 13-Jul-04          | United States  |
| 6,759,192  | Polymorphic markers of prostate carcinoma tumor antigen-1(PCTA-1)                                   | <b>Genset S.A.</b>  | 6-Jul-04           | France         |
| 6,762,045  | Membrane derived caspase-3, compositions comprising the same and methods of use therefor            | <b>Idun Pharmaceuticals, Inc</b>                                    | 13-Jul-04          | United States  |
| 6,759,209  | Bacillus strain and assay methods   | <b>ISIS Innovation Limited</b>                                      | 6-Jul-04           | United Kingdom |
| 6,762,046  | Polypeptide having .beta.-fructofuranosidase activity   | <b>Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo</b>        | 13-Jul-04          | Japan          |
| 6,762,037  | Process for producing coenzyme Q10  | <b>Kaneka Corporation</b>   | 13-Jul-04          | Japan          |
| 6,759,228  | Alkaline protease   | <b>Kao Corporation</b>  | 6-Jul-04           | Japan          |

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|-----------|---|--|-----------|---------------|
| 6,767,726 | Process for producing cis-3-hydroxy-L-proline   | <b>Kyowa Hakko Kogyo Co., Ltd.</b>                         | 27-Jul-04 | Japan         |
| 6,759,221 | 14189, a novel human kinase and uses thereof  | <b>Millennium Pharmaceuticals, Inc</b>                     | 6-Jul-04  | United States |
| 6,759,222 | 14815, a human kinase family member and uses therefor   | <b>Millennium Pharmaceuticals, Inc.</b>                    | 6-Jul-04  | United States |
| 6,759,210 | Compositions and methods for the treatment and diagnosis of cardiovascular disease using fehd545 as a target            | <b>Millennium Pharmaceuticals, Inc.</b>                    | 6-Jul-04  | United States |
| 6,762,021 | Method for diagnosis of crohn's disease   | <b>Mitsubishi Pharma Corporation</b>                       | 13-Jul-04 | Japan         |
| 6,767,735 | Vector for introducing a gene into a plant using a selectable marker  | <b>Nippon Paper Industries Co., Ltd.</b>                   | 27-Jul-04 | Japan         |
| 6,767,701 | Methods of constructing and screening a DNA library of interest in filamentous fungal cells                             | <b>Novozymes A/S</b>                                       | 27-Jul-04 | Denmark       |
| 6,759,214 | Methods and compositions relating to CD39-like polypeptides and nucleic acids   | <b>Nuvelo, Inc.</b>  | 6-Jul-04  | United States |
| 6,759,236 | Methods to enhance and confine expression of genes  | <b>Research Development Foundation</b>                     | 6-Jul-04  | United States |
| 6,767,723 | Method for synthesis of nucleic acids   | <b>Shimadzu Corporation</b>                                | 27-Jul-04 | Japan         |
| 6,759,197 | Microchip arrays of regulatory genes  | <b>Sir Mortimer B. Davis -- Jewish General Hospital</b>    | 6-Jul-04  | United States |
| 6,767,705 | Reagents and methods for identifying and modulating expression of genes regulated by retinoids                          | <b>The Board of Trustees of the University of Illinois</b> | 27-Jul-04 | United States |
| 6,762,038 | Mutant cell lines and methods for producing enhanced levels of recombinant proteins                                     | <b>The Cleveland Clinic Foundation</b>                     | 13-Jul-04 | United States |
| 6,759,193 | Detection of human hepatitis B virus surface antigen mutants by specific amplification and its application on gene chip | <b>The Government of the Republic of Singapore</b>         | 6-Jul-04  | Singapore     |
| 6,764,837 | Agrobacterium tumefaciens rpoA gene   | <b>The University of Arkansas</b>                          | 20-Jul-04 | United States |
| 6,759,205 | Construction of a strain of Bacillus subtilis 168 that displays the sublancin lantibiotic on the surface of the cell    | <b>University of Maryland</b>                              | 6-Jul-04  | United States |
| 6,767,707 | DNA encoding canine von willebrand factor and methods of use  | <b>University of Michigan</b>                              | 27-Jul-04 | United States |

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| 6,767,720 | CDNAs encoding catenin-binding proteins with function in signalling and/or gene regulation | Vlaams Interuniversitair Instituut voor Biotechnologie VZW | 27-Jul-04 | Belgium |
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| <b>DRUG</b>   |   |   |             |               |
|---------------|---|---|-------------|---------------|
| Patent Number | Title   | Assignee  | Date Issued | Country       |
| 6,764,687     | Live attenuated bacteria for use in a vaccine   | Akzo Nobel N.V.   | 20-Jul-04   | Netherlands   |
| RE38,556      | Recombinant adeno viruses comprising an inserted gene encoding apolipoprotein and their use in gene therapy for dyslipoproteinemias | Aventis Pharma S.A.   | 13-Jul-04   | France        |
| 6,767,550     | Hydroxyapatite based drug delivery implant for cancer treatment   | Berkeley Advanced Biomaterials, Inc.  | 27-Jul-04   | United States |
| 6,759,394     | Cancer gene therapy based on translational control of a suicide gene  | Board of Supervisors of La. State Un. & Agricultural and Mechanical College | 6-Jul-04    | United States |
| 6,764,685     | Recombinant parainfluenza virus expression systems and vaccines   | MedImmune Vaccines, Inc   | 20-Jul-04   | United States |
| 6,764,674     | Adenovirus E1B shuttle vectors  | Onyx Pharmaceuticals Inc  | 20-Jul-04   | United States |
| 6,759,385     | Methods to treat undesirable immune responses   | Regents of the University of Minnesota                                      | 6-Jul-04    | United States |
| 6,761,884     | Vectors including foreign genes and negative selective markers  | The United States of America as represented by the Department of Health     | 13-Jul-04   | United States |
| 6,764,684     | Avian herpesvirus-based recombinant infectious bursal disease vaccine   | Zeon Corporation  | 20-Jul-04   | Japan         |

| <b>FOOD OR EDIBLE MATERIAL</b> |   |                           |             |         |
|--------------------------------|---|---------------------------|-------------|---------|
| Patent Number                  | Title   | Assignee                  | Date Issued | Country |
| 6,761,916                      | Method for producing breads with a recombinant yeast which expresses a photoprotein | Nisshin Seifun Group Inc. | 13-Jul-04   | Japan   |

| <b>ORGANIC COMPOUNDS</b> |       |          |             |         |
|--------------------------|-------|----------|-------------|---------|
| Patent Number            | Title | Assignee | Date Issued | Country |

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|-----------|---|---|-----------|---------------|
| 6,765,129 | Overexpression of a DNA sequence coding for a 1-desoxy-d-xylulose-5-phosphate reductoisomerase in plants                      | <b>BASF Aktiengesellschaft</b>                            | 20-Jul-04 | Germany       |
| 6,759,575 | Barstar gene  | <b>Bayer Bioscience N.V.</b>                              | 6-Jul-04  | Bulgaria      |
| 6,759,570 | Promoter and regulator sequences Ha ds10 G1: a gene lea of sunflower expressed exclusively in seeds from the maturation phase | <b>Consejo Superior de Investigaciones Cientificas</b>    | 6-Jul-04  | Spain         |
| 6,765,126 | Transgenic mice containing NPY6-R neuropeptide receptor gene disruptions  | <b>Deltagen Inc</b>                                       | 20-Jul-04 | United States |
| 6,762,342 | Transgenic mice containing intestinal alkaline phosphatase gene disruptions   | <b>Deltagen, Inc</b>                                      | 13-Jul-04 | United States |
| 6,768,002 | Scorpion toxins   | <b>E. I. du Pont de Nemours and Company</b>               | 27-Jul-04 | United States |
| 6,762,345 | Plant stearyl desaturases   | <b>E. I. du Pont de Nemours and Company</b>               | 13-Jul-04 | United States |
| 6,762,293 | Diagnostics and therapeutics for autosomal dominant hemochromatosis   | <b>Erasmus University Rotterdam</b>                       | 13-Jul-04 | Netherlands   |
| 6,762,291 | Insect p53 tumor suppressor genes and proteins  | <b>Exelixis, Inc</b>                                      | 13-Jul-04 |               |
| 6,765,098 | Fullerene derivatives   | <b>Fujisawa Pharmaceutical Co., Ltd</b>                   | 20-Jul-04 | Japan         |
| 6,762,347 | NOR gene compositions and methods for use thereof   | <b>Giovannoni, James</b>                                  | 13-Jul-04 | United States |
| 6,762,296 | Antitumor protein and corresponding gene sequence isolated from matsutake mushrooms   | <b>Independent Administrative Food Research institute</b> | 13-Jul-04 | Japan         |
| 6,759,526 | DNA fragment having promoter function   | <b>Nissan Chemical Industries, Ltd.</b>                   | 6-Jul-04  | Japan         |
| 6,759,571 | Method of suppressing gene expression in plants   | <b>North Carolina State University</b>                    | 6-Jul-04  | United States |
| 6,762,348 | Genetic control of plant growth and development   | <b>Pioneer Hi-Bred International, Inc</b>                 | 13-Jul-04 | United States |
| 6,762,297 | Expression vector containing lectin gene regulation site of mud loach   | <b>Pukyong National University</b>                        | 13-Jul-04 | Korea         |
| 6,768,042 | Selective control of lignin biosynthesis in transgenic plants   | <b>The Regents of the University of California</b>        | 27-Jul-04 | United States |

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| 6,768,043 | Das5, a P450 protein involved in the brassinosteroid biosynthesis pathway in plants | <b>The Salk Institute for Biological Studies</b>                               | 27-Jul-04 | United States |
| 6,762,294 | Polynucleotides encoding polymorphic human GABAA receptor .alpha.-6 subunit         | <b>The United States of America as represented by the Department of Health</b> | 13-Jul-04 | United States |

