

**Patent Selections:**

The patents annotated in this section have been selected from various patent collections. They are recent patents categorized by therapeutic area/agent/target and therapeutic agents related to inflammation and allergy drug discovery and are relevant to the articles published in this journal issue.

**IL-1, IL-6, TNF, IL-2, IFN & IMMUNITY**

1. Carminati, P., Gallo, G., Fanto, N., Ruggiero, V., Sassano, M., Mastroianni, D. MYD88 homodimerization inhibitors. *US20080064643A1* (2008).
2. Bazan, F.J. Human interleukin-B50 therapeutic uses. *EP1897949* (2008).
3. Carroll, R.G., June, C.H., Riley, J.L. Methods, compositions and kits relating to antigen presenting tumor cells. *WO08027456* (2008).

**IL-17, IL-25 & NEUTROPHIL**

1. Sackstein, R. Cytokine induction of selectin ligands on cells. *WO08011094* (2008).
2. Timm, M., Hansen, E.W. An *in vitro* method for detection of inflammatory contaminants. *WO08009292* (2008).
3. Brewis, N.D. Single domain antibodies against tnfr1 and methods of use therefore. *US20080008713A1* (2008).

**IL-17, IL-25 & AIRWAY**

1. Hunter, C.A., Stumhofer, J.S. WSX-1/P28 as a target for anti-inflammatory responses. *WO2008011081* (2008).

**IL-17, IL-25 & LUNG**

1. Ichim, T.E. Stem cell therapy for cardiac valvular dysfunction. *US20080050347A1* (2008).
2. Hoerr, I., Probst, J., Ketterer, T., Scheeel, B. Nucleic acid of formula (i): GIXmGn, or (ii): CIXmCn, in particular as an immune-stimulating agent/adjuvant. *WO08014979* (2008).

**ALLERGEN IMMUNOTHERAPY & SUBLINGUAL IMMUNOTHERAPY**

1. Saint-Remy, J.-M. Immunogenic peptides and their use in immune disorders. *WO08017517* (2008).
2. Kandimalla, E.R., Zhao, Q., Yu, D., Agrawal, S. Modulation of immunostimulatory activity of immunostimulatory oligonucleotide analogs by positional chemical changes. *US20080027214A1* (2008).
3. Nash, R.J. Use of imino sugars in immunotherapy. *WO08009894* (2008).

**ALLERGEN IMMUNOTHERAPY & MPL**

1. Doucette-Stamm, L., Bush, D., Zeng, Q., Opperman, T., Houseweart, C.E. Nucleic acid and amino acid sequences relating to *Streptococcus pneumoniae* for diagnostics and therapeutics. *US20080009035A1* (2008).

2. Johnson, L.S., Huang, L., Gerena, R. FCGR2B-specific antibodies and methods of use thereof. *WO08019199* (2008).
3. McKenna, J.M., Papa, P.W., Sakata, S.T., Erdman, P.E., Packard, G.K. Inhibitors of TNFalpha, PDE4 and B-RAF, compositions thereof and methods of use therewith. *US20080004271A1* (2008).

**ALLERGEN IMMUNOTHERAPY & RECOMBINANT ALLERGENS**

1. Kedl, R., Sanchez, P.J., Haluszczak, C. CD40 agonist antibody /type 1 interferon synergistic adjuvant combination, conjugates containing and use thereof as a therapeutic to enhance cellular immunity. *US20080050340A1* (2008).
2. Mad Arif, S.A., Chew, N.P., Yeang, H.Y. Allergenic latex protein. *US20087329512* (2008).
3. Krieg, A.M., Kline, J., Klinman, D., Steinberg, A.D. Immunostimulatory nucleic acid molecules. *US20080031936A1* (2008).

**ALLERGEN IMMUNOTHERAPY & PEPTIDES**

1. Lim, S., Lye, E. Mesenchymal stem cell conditioned medium. *WO08020815* (2008).
2. Sheppard, P.O., West, R.R., Stamm, M.R., Appleby, M.W., Bilsborough, J., Thompson, P., Walker, K.M. ZIMLIG2 polynucleotides and polypeptides and methods of use. *WO08014410* (2008).
3. Raz, E. Use of immunostimulatory oligonucleotides for preventing or reducing antigen-stimulated, granulocyte-mediated inflammation. *EP1872786* (2008).

**ALLERGEN IMMUNOTHERAPY & ANTI-IGE**

1. Hartmann, S., Lucius, R., Schnoeller, C., Hamelmann, E. Cystatin from nematodes in the treatment of autoimmune or allergic diseases. *EP1884246* (2008).
2. Renner, W.A., Bachmann, M., Tissot, A., Maurer, P., Lechner, F., Sebbel, P., Piossek, C., Ortmann, R., Luond, R., Staufienbiel, M., Frey, P., Molecular antigen array. *US20087320793* (2008).
3. Alibhai, M.F., Astwood, J.D., McWherter, C.A., Sampson, H.A. Nucleic acids encoding deallergenized proteins and permuteins. *US20080010700A1* (2008).

**ANTI-INFLAMMATORY DRUG & NON STEROID ANTI-INFLAMMATION DRUG**

1. Bevilacqua, M., Tyron, V., Bankaitis-Davis, D., Siconolfi, L., Trollinger, D.B, Wassmann, K. Gene expression profiling for identification, monitoring and treatment of multiple sclerosis. *WO08008487* (2008).

- Rohrs, B.R., Comstock, T.L., Hu, Z., Phillips, G. Compositions and methods for treating, controlling, reducing, ameliorating, or preventing allergy. *US20080064721A1 (2008)*.
- Andersen, A., Bissonnette, E., Drouin, R., Purcell, M. Compositions comprising thylakoids useful in the modulation of inflammation process. *US20087329423 (2008)*.

#### ANTI-INFLAMMATORY DRUG & STEROID

- Yatvin, M. Liposome drug delivery of polycyclic, aromatic, antioxidant or anti-inflammatory compounds. *US20087316818 (2008)*.
- Schultz, C.L. Medical device/drug delivery system for the healing of wounds and the prevention of inflammation and disease. *WO08005276 (2008)*.
- Millan, R.D.S., Coelho, M.M., Vieira, R.P., Teixeira, L.R.S., Doreto, M.C., Beraldo, H.O., Andrade, S.P. Pharmaceutical compositions of semicarbazones and/or thiosemicarbazones and/or their derivatives and products of these compositions and their uses as anticonvulsant, anti-nociceptive and anti-inflammatory agents, and in the angiogenic therapy. *US20080058284A1 (2008)*.

#### ANTI-INFLAMMATORY DRUG & INTERLEUKIN (IL)

- Connolly, E. Selection and use of lactic acid bacteria for reducing inflammation in mammals. *US20087344867 (2008)*.
- Palladino, M.A., Theodorakis, E.A., Macherla, V.R.R., Chao, T.-H., Suh, Y.G. Interleukin-1 and tumor necrosis factor-alpha modulators; syntheses of such modulators and methods of using such modulators. *US20080064753A1 (2008)*.
- Frankel, A.E. Methods and compositions based on diphtheria toxin-interleukin-3 conjugates. *WO08030539 (2008)*.

#### ANTI-INFLAMMATORY DRUG & GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR (GM-CSF)

- Wolfe, M.M., Yao, M. Combination of an immunosuppressive agent and nonsteroidal anti-inflammatory drugs to treat disease. *WO08008549 (2008)*.
- Cheshire, D., Guile, S., Thompson, T. Novel compounds 171. *US20080058309 A1 (2008)*.
- Siadak, A.W., Bilsborough, J., Rene, S. Variable region sequences of iL-31 monoclonal antibodies and methods of use. *WO08028192 (2008)*.

#### ANTI-INFLAMMATORY DRUG & INTERCELLULAR ADHESION MOLECULE

- Franco, D.L., Ramanathan, C.S., Lewis, M.A., Feder, J.N. Polynucleotide encoding a novel human P2X7 splice variant, HBMYP2X7v. *US20087344860 (2008)*.

- Ramanathan, C.S., Feder, J.N., Mintier, G.A., Bennett, K.L. Human relaxin receptor HGPRBMY5v1. *US20087339032 (2008)*.
- Konradi, A. W., Semko, C.M., Xu, Y., Stappenbeck, F., Stupi, B.P., Smith, J., Pleiss, M.A., Thorsett, E.D. Heteroaryl compounds which inhibit leukocyte adhesion mediated by  $\alpha_4$  integrins. *US20087335663 (2008)*.

#### ANTI-INFLAMMATORY DRUG & TUMOR NECROTIC FACTOR

- Feder, J.N., Ramanathan, C.S., Mintier, G.A., Bol, D. Human G-protein coupled receptor, HGPRBMY29sv1 polypeptides. *US20087345148 (2008)*.
- Twardzik, D.R., Paskell, S., Felker, T.S. TGF-alpha polypeptides, functional fragments and methods of use therefore. *EP1897441 (2008)*.
- Batchelor, M.J., Bebbington, D., Bemis, G.W., Fridman, W.H., Gillespie, R.J., Golec, J.M.C., Lauffer, D.J., Livingston, D.J., Matharu, S.S., Mullican, M.D., Murcko, M.A., Murdoch, R., Zelle, R.E. Inhibitors of interleukin-1beta converting enzyme. *US20080039449 A1 (2008)*.

#### ANTI-INFLAMMATORY DRUG & NUCLEAR FACTOR

- Lee, N., Chen, J., Wu, S., Blonar, M.A., Levesque, P.C., Sun, L. Polynucleotides encoding variants of the TRP channel family member, LTRPC3. *US20087344882 (2008)*.
- Feinstein, E., Mett, I. Therapeutic uses of inhibitors of RTP801L. *US20080064650A1 (2008)*.
- Nestor, J. Compounds for and methods of treating insulin resistance and inflammation. *WO08031032 (2008)*.
- Ruhwald, M., Ravn, P., Eugen-Olsen, J. IP-10 based immunological monitoring. *WO08028489 (2008)*.

#### PHOTOTHERAPY & NARROW-BAND UVB

- Balgowan, N. A phototherapy device. *WO08017101 (2008)*.
- Wallner, B.P., Cooper, K.D. Methods of treating skin conditions using inhibitors of the CD2/LFA-3 interaction. *US20087323171 (2008)*.
- Fiset, P.D. Phototherapy systems and methods. *US20080039907A1 (2008)*.
- Van de Winkel, J.G.J., Van Dijk, M.A., Schuurman, J., Gerritsen, A.F., Baadsgaard, O., Petersen, J. Human antibodies specific for interleukin 15 (IL-15). *US20087329405 (2008)*.

#### TARGETED PHOTOTHERAPY & NARROW-BAND UVB

- Cumbie, W.E., Juanarena, D.B. Method and device to inactivate and kill cells and organisms that are undesirable. *US20070255266A1 (2008)*.

**PHOTOTHERAPY DEVICES**

1. Powell, S.D., Savage, R.H., Jacobsen, E. Skin treatment phototherapy method. *US20080065056A1 (2008)*.
2. Maricle, C.E., Carullo, J., John, F. Laser therapy device for animals and methods of using the same and manufacturing the same. *US20087331964 (2008)*.
3. De Kok, M., Van Pieterse, L. Phototherapy device and method. *WO08001242 (2008)*.

**PHOTOTHERAPY & NASAL MUCOSA**

1. Chen, G., Webster, J.M., Li, J., Hu, K., Liu, W., Zhu, J. Anti-inflammatory and psoriasis treatment and protein kinase inhibition by hydroxy stilbenes and novel stilbene derivatives and analogues. *US20087321050 (2008)*.

**PHOTOTHERAPY & ORAL MUCOSA**

1. Juneau, C., Drouin, R., Pouliot, Y., Aattouri, N., Gauthier, S., Lamiot, E. Composition for treating psoriasis. *US20080031969A1 (2008)*.

**ASTHMA & DIHYDROPYRIDINE RECEPTORS**

1. Deng, H., Evindar, G., Bernier, S., Yao, G., Coffin, A., Yang, H., Acharya, R.A. Agonists of the sphingosine-1-phosphate receptor (SLP). *WO08016674 (2008)*.
2. Devane, J., Kelly J., Martin, M. Methods for treating at least one condition having MT1 receptor, 5HT2B receptor, and L-type calcium channel activity. *US20080045603A1 (2008)*.
3. Norman, M.H., Pettus, L.H., Wang, X., Zhu, J. Vanilloid receptor ligands and their use in treatments. *US20087335672 (2008)*.

**AIRWAY HYPERRESPONSIVENESS**

1. Levitt, R.C. Localized therapy of lower airways inflammatory disorders with proinflammatory cytokine inhibitors. *WO08021237 (2008)*.
2. Davis, D.E., Andrews, A.-L., Holloway, J.W. Peptide for treatment of asthma. *WO08017894 (2008)*.
3. Basu, S.K., Hrkach, J., Lipp, M., Elbert, K., Edwards, D.A. Particles for inhalation having sustained release properties. *US20080039366A1 (2008)*.

**ASTHMA & CALCIUM SIGNALING**

1. Florjancic, A.S., Dart, M.J., Ryther, K.B., Perez-Medrano, A., Carroll, W.A., Patel, M.V., Tietje, K.R., Li, T., Kolasa, T., Gallagher, M.E., Peddi, S., Frost, J.M., Nelson, D.W. Novel compounds as cannabinoid receptor ligands and uses thereof. *US20080064699A1 (2008)*.
2. Durrani, M., Geiss, W.B., Fairfax, D.J., Tymoshenko, D.O., Le, V.-D., Peterson, L.H., Novel soluble 1,4 benzodiazepine compounds and stable salts thereof. *US20080064686A1 (2008)*.

3. Serhan, C.N., Levy, B.D. Lipoxins and aspirin-triggered lipoxins and their stable analogs in the treatment of asthma and inflammatory airway diseases. *US20080064746A1 (2008)*.

**ASTHMA & TH2-LYMPHOCYTES**

1. Mcdonagh, C., Carter, P. CD30 binding agents and uses thereof. *WO08025020 (2008)*.
2. Armer, R.E., Wynne, G.M. Compounds having CRTH2 antagonist activity. *WO08012511 (2008)*.
3. Avery, M.A., Pershad Singh, H.A. Design and synthesis of optimized ligands for PPAR. *US20087339065 (2008)*.

**ASTHMA & INTERLEUKINS 4, 5 AND 13**

1. Lipford, G.B., Zepp, C.M., Nguyen, T.B. Small molecule inhibitors of toll-like receptor 9. *WO08030455 (2008)*.
2. Damschroder, M., Kiener, P., Wu, H., Dall, A.W., Herbst, R., Coyle, A. Humanized anti-CD19 antibodies and their use in treatment of oncology, transplantation and autoimmune disease. *WO08031056 (2008)*.
3. Cheshire, D., Guile, S., Thompson, T. Novel compounds 171. *US20080058309A1 (2008)*.

**BACTERIAL DNA & ALLERGIC DISEASE**

1. Fong, S., Goddard, A., Godowski, P.J., Grimaldi, J.C., Gurney, A.L., Hillan, K.J., Tumas, D., Watanabe, C.K., Wood, W., Zhang, Z. Nucleic acid encoding PRO9912 polypeptides. *US20087344880 (2008)*.
2. Eckert, R.H., Yarbrough, D. K., Shi, W., Anderson, M.H., Qi, F., He, J., Mchardy, I.H. Selectively targeted antimicrobial peptides and the use thereof. *WO08030988 (2008)*.
3. Molldrem, J. T-cell receptors for use in diagnosis and therapy of cancers and autoimmune disease. *US20080064631A1 (2007)*.

**BACTERIAL DNA & ARTHRITIS**

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2. Goletz, S.D. Fully human high yield production system for improved antibodies. *EP1900750 (2008)*.
3. Goddard, A., Godowski, P.J., Grimaldi, J.C., Gurney, A.L., Wood, W.I. Secreted and transmembrane polypeptides and nucleic acids encoding the same. *US20087345145 (2008)*.

**BACTERIAL DNA & MENINGITIS**

1. Grandi, G., Massignani, V., Pizza, M., Rappuoli, R., Scarlato, V. Neisserial antigens. *EP1900818 (2008)*.
2. Nunes, J.J., Milne, J., Bemis, J., Xie, R., Vu, C.B., Ng Pui, Y., Disch, J.S. Sirtuin modulating compounds. *US20087345178 (2008)*.

- Tucker, K., Plosila, L. M. catarrhalis outer membrane protein-106 polypeptide, methods of eliciting an immune response comprising same. *US20087341727 (2008)*.

#### BACTERIAL DNA & CPG DNA

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- Woolf, C.J., Samad, T.A. DRG11-responsive axonal guidance and outgrowth of neurite (DRAGON) gene family. *US20080064853A1 (2008)*.
- Curtiss, I.R., Tinge, S.A. Regulated antigen delivery system (RADS). *US20087341860 (2008)*.
- Li, E., Okano, M., Xie, S. *De novo* DNA cytosine methyltransferase genes, polypeptides and uses thereof. *US20087342108 (2008)*.

#### BACTERIAL DNA & INFLAMMATORY DISEASE

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- Lucas, J., Dialynas, D., Briggs, K. Agonists and antagonists of prolixin for the treatment of metabolic disorders. *US20087344843 (2008)*.
- Christian, S.T. Pharmaceutical dopamine glycoconjugate compositions and methods of their preparation and use. *US20087345031 (2008)*.
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#### PLACEBOS & CLINICAL TRIALS

- Margus, B., Cox, D., Hsu, J. Methods and systems for identifying predisposition to the placebo effect. *US20087335474 (2008)*.

#### CLINICAL TRIALS & CHINESE HERBAL MEDICINE (CHM)

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- Chen; J., Nikolovska-Coleska, Z., Yang, D., Wang, S., Sun, H., Xu, L., Hu, Z. Small Molecule Antagonists of XIAP family proteins. *US20080021095A1 (2008)*.

#### ENDOMETRIOSIS & ESTROGEN RECEPTOR AGONISTS

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modulators and uses thereof. *US20080064673A1 (2008)*.

- Mewshaw, R.E., Yang, C. Hydroxy-biphenyl-carbaldehyde oxime derivatives and their use as estrogenic agents. *US20080033049A1 (2008)*.
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#### ENDOMETRIOSIS & ANDROGEN RECEPTOR AGONISTS

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#### ENDOMETRIOSIS & VEGF RECEPTOR INHIBITORS

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- Koya, K., Sun, L., Chen, S., Jiang, J. Compounds for treatment of proliferative disorders. *WO08024304 (2008)*.

#### ENDOMETRIOSIS & CYTOKINES

- Chakravarty, S., Dugar, S., Perumattam, J.J., Schreiner, G.F., Liu, D.Y., Lewicki, J.A. Pyrido-pyrimidine compounds as medicaments. *US20087345045 (2008)*.
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Hillan, K.J., Tumas, D., Van Lookeren, M., Vandlen R., Watanabe, C.K., Williams, P.M., Wood, W., Yansura, D.G. IL-17 homologous polypeptides and therapeutic uses thereof. *EP1897943 (2008)*.

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#### ENDOMETRIOSIS & IMMUNE SYSTEM

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2. Rosenberg, S., Fry, K., Wu, B., Dedrick, R.L. Methods and compositions for diagnosing and monitoring the status of transplant rejection and immune disorders. *WO08021431 (2008)*.
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#### PSYCHOSOCIAL STRESS & EMOTIONS

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2. Siegel, J.M., John, J., Wu, M.-F. Administration of hypocretin-1 for treatment of narcolepsy. *US20087335640 (2008)*.
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#### EMOTIONS & IMMUNITY

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#### INNATE IMMUNITY & PRO-INFLAMMATORY CYTOKINES

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3. Elson, G., Leger, O. Neutralizing antibodies and methods of use thereof. *US20080050366A1 (2008)*.
4. Presta, L.G., Bowman, E.P. Antibodies to IL-17A. *WO08021156 (2008)*.
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#### TH1-TH2 BALANCE & INNATE IMMUNITY

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#### PREBIOTICS & HUMAN IMMUNE SYSTEM

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#### PREBIOTICS & AUTOIMMUNE DISEASE

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2. Prakash, S., Bhatena, J.R. Oral polymeric membrane feruloyl esterase producing bacteria formulation. *WO08028300 (2008)*.
3. Hageman, R.J.J. Compositions comprising pantothenic acid or derivatives thereof and their use for stimulating appetite. *US20080031860A1 (2008)*.

#### PREBIOTICS & ALLERGY

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2. Sakakibara, M., Fukuda, Y., Sekiya, A., Nishihashi, H., Hirahashi, T. Process for treating spirulina. *US20087326558 (2008)*.
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#### IMMUNE MODULATION & GUT-ASSOCIATED LYMPHOID TISSUES

1. Grainger, D.J., Tatalick, L.M. Compounds and methods to inhibit or augment an inflammatory response. *US20080045557A1 (2008)*.
2. Rafaeeli, Y., Turner, B., Bishop, J.M., Young, R. Non-human animal models for B-cell non-hodgkin's lymphoma and uses thereof. *WO08014420 (2008)*.
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