

## Patent Selections:

The patents annotated in this section have been selected from various patent collections. They are recent patents categorized by therapeutic areas/agent/target and therapeutic agents related to drug delivery and formulations and are relevant to the articles published in this journal issues.

### NANOCARRIERS FOR SYSTEMIC AND MUCOSAL VACCINE DELIVERY

1. Van, N.G., Tuck, S. Immunomodulatory formulations and methods for use thereof *US20067129222 (2006)*.
2. Mather, J.P., Roberts, P.E. Antibodies to oncostatin M receptor *WO06084092 (2006)*.
3. Mather, J.P., Roberts, P.E., LuCA2 and antibodies that bind thereto *WO06083852 (2006)*.
4. Mather, J.P., Roberts Penelope E. JAM-3 and antibodies that bind thereto *WO06084078 (2006)*.
5. Mather J., Loo, D. ADAM-9 modulators *WO06084075 (2006)*.
6. Mather, J.P., Loo, D. KID31 and antibodies that bind thereto *WO06076584 (2006)*.
2. Rapoport, N., Gao, Z. Echogenic microbubbles and microemulsions for ultrasound-enhanced nanoparticle-mediated delivery of agents *WO06127953 (2006)*.
3. Discher, D., Geng, Y. Controlled release from block copolymer worm micelles *WO06071769 (2006)*.
4. Joergensen, K., Simon, S. J., Andresen, T. Drug delivery systems containing phospholipase A2 degradable lipid prodrug derivatives and the therapeutic uses thereof as. e.g. wound healing agents and peroxisome proliferator activated receptor ligands *WO060869929(2006)*.
5. Leroux, J.-C., Jones, M.-C., Tewari, P. K. Hydrophilic core polymeric micelles for the delivery of water-soluble compounds *WO06105659 (2006)*.
6. Joergensen, K., Andresen, T. Lipid-based drug delivery systems containing unnatural phospholipase A2 degradable lipid derivatives and the therapeutic uses thereof *WO06048017 (2006)*.

### NANOEMULSIONS

1. Rapoport, N., Gao, Z. Echogenic microbubbles and microemulsions for ultrasound-enhanced nanoparticle-mediated delivery of agents *WO06127953 (2006)*.
2. Schwarz, J., Weisspapir, M. Colloidal solid lipid vehicle for pharmaceutical use *WO06102768 (2006)*.
3. Spengler, E., Petraia, T. Stable mixed emulsions *WO06098966 (2006)*.
4. Seiberg, M. Use of legume products for the treatment and prevention of radiotherapy-induced skin damage *EP1647278 (2006)*.
5. Wu, J.M., Liu, J.-C., Chantalat, J., Sun, Y., Johnsen, S.A., Jampani, H.B. Compositions containing anti-acne agents and the use thereof *EP1614430 (2006)*.
6. Port, M. Lipophilic chelates and use thereof in imaging *WO06100305 (2006)*.
7. Gesztesi, J., Moraes, S.L., De, T.H.P., Moraes, S.L., Araujo, M.K. An oil-in-water nanoemulsion, a cosmetic composition and a cosmetic product comprising it, a process for preparing said nanoemulsion *WO06045170 (2006)*.
8. Larm, M.G., Harding, R. Microemulsion & sub-micron emulsion process & compositions *WO06024095 (2006)*.
9. Fillion, M.C., Phillips, Nigel, C. Hyaluronic acid in the treatment of cancer *US20067125858(2006)*.
10. Holm, P., Norling, T. A tablet comprising a fibrate *WO06084475 (2006)*.
7. Lee, D.-S., Kim, M.-S., Hwang, S.-J., Han, J.-K., Kim, B.-S. pH sensitive block copolymer and polymeric micelle using the same *WO06098547 (2006)*.
8. Pulendran, B., Murthy, N., Pierce, R., Heffernan, M.J., Hao, J., Kwissa, M. Novel strategies for delivery of active agents using micelles and particles *WO06122223 (2006)*.
9. Atanasoska, L., Holman, T.J., Weber, J., Warner, R., Schewe, S. Internal medical devices for delivery of therapeutic agent in conjunction with a source of electrical power *WO06086672 (2006)*.
10. Maurel, J.-C. Reverse micelles based on phytosterols and acylglycerols and therapeutic uses thereof *WO06048772 (2006)*.

### DENDRIMERS

1. Tomalia, D.A., Swanson, D., Huang, B., Pulgam, V.R., Heinzlmann, J.R., Svenson, S., Reyna, L., Zhuravel, M. A., Chauhan, A. S., Demattei, C.R. Dendritic polymers with enhanced amplification and interior functionality *WO06115547 (2006)*.
2. Malik, N., Duncan, R., Tomalia, D. A., Esfand, R. Dendritic-antineoplastic drug delivery system *US20067005124 (2006)*.
3. Uchegbu, I., Schaezlein, A.G., Dufes, C. Bioactive polymers *WO06040579 (2006)*.
4. Tomalia, D.A., Pulgam, V.R., Swanson, D.R., Huang, B. Janus dendrimers and dendrons *WO06105043 (2006)*.
5. Albrecht, V., Wiehe, A., Roeder, B., Neuberger, W. Photo-triggered release of active substances from

### MICELLES

1. Breitenkamp, K., Sill, K., Skaff, H., Breitenkamp, R. Polymeric micelles for drug delivery *WO06107903 (2006)*.

- dendrimer-photosensitizer complexes **WO06007261 (2006)**.
6. Saltzman, W.M., Fahmy, T., Fong, P. Targeted and high density drug loaded polymeric materials **WO06080951 (2006)**.
  7. Campbell, R.L., Dolan, K.G., Woodley, W.C. Particulate formulations for intradermal delivery of biologically active agents **WO06127962 (2006)**.
  8. Tomalia, D.A., Majoros, I.J. Biocompatible dendrimers **US20067078461 (2006)**.
  9. Frechet, J.J., Ihre, R.H. Dendrimeric support or carrier macromolecule **US20067097856 (2006)**.
  10. Grinstaff, M.W., Carnahan, M.A. Dendritic polymers, crosslinked gels, and their uses as ophthalmic sealants and lenses **WO06031358 (2006)**.

#### **DRY POWDER INHALERS**

1. Staniforth, J. Improvements in and relating to carrier particles for use in dry powder inhalers **EP1666023 (2006)**.
2. Denny, J., King, M., Lopath, P.D., Warden, J.A. Tubular dry powder drug containment systems, associated inhalers and methods **WO06031712 (2006)**.
3. Musa, R., Bilzi, R., Ventura, P., Chiesi, P. Modified carrier particles for use in dry powder inhalers **US20067132115 (2006)**.
4. Staniforth, J.N. Carrier particles for use in dry powder inhalers **US20067011818 (2006)**.
5. Staniforth, J.N., Vodden, M.D.A., Gill, R., Brambilla, G., Musa, R., Ferrarini, L. Pharmaceutical formulations for dry powder inhalers in the form of hard pellets **EP1719505 (2006)**.
6. Harris, D.S., Smith, S.J. Dry powder inhalers **WO06061637 (2006)**.
7. Herder, M., Mett, I., Goede, J. Inhaler for the administration of powdered pharmaceuticals, and a powder cartridge system for use with this inhaler **WO06008027 (2006)**.
8. Steiner, S.S., Poole, T., Feldstein, R., Fog, P.B. Unit dose capsules for a dry powder inhaler **EP1649886 (2006)**.
9. Brichall, J.C., Li, H. Use of dry powder compositions for pulmonary delivery **WO06008517 (2006)**.
10. Keller, M., Eggimann, T. Inhaler for multiple dosed administration of a pharmacological dry powder **US20067131441 (2006)**.

#### **PARTICLE ENGINEERING**

1. Hitt, J.E., Rogers, T.L., Gillespie, I.B., Scherzer, B.D., Garcia, P.C., Beck, N.S., Tucker, C.J., Young, T.J., Hayes, D.A., Williams, R.O., Johnston, K.P., Mcconville, J., Peters, J., Talbert, R., Burgess, D. Enhanced delivery of drug compositions to treat life threatening infections **WO06026502 (2006)**.

2. Wenzhong, L.D., Steinhoff, G.P.D.M., Nan, M.D., Steinhoff, K.P.D.I. Magnetic pole matrices useful for tissue engineering and treatment of disease **EP1674128 (2006)**.
3. Shastri, P.V., Sy, J. Nano-and micro-scale engineering of polymeric scaffolds for vascular tissue engineering **WO06044904 (2006)**.
4. Ma, P.X., Wei, G. Particle-containing complex porous materials **WO06116392 (2006)**.
5. Masters, D.B., Berg, E.P. Biocompatible protein particles, particle devices and methods thereof **WO06042310 (2006)**.

#### **MONODISPERSE NANOPARTICLES**

1. Hyeon, T.-H., Park, J.-N. New process for large-scale production of monodisperse nanoparticles **EP1661649 (2006)**.
2. Sinko, P.J., Stein, S., Gunaseelan, S., Pooyan, S., Wan, L. Drug-polymer conjugates coupled to a peptidic carrier **WO06089156 (2006)**.
3. Hyeon, T., Park, J. New process for large-scale production of monodisperse nanoparticles **WO06057533 (2006)**.
4. Gomez, A., Klemic, J.F., Deng, W., Li, X., Reed, M.A. Increase of electrospray throughput using multiplexed microfabricated sources for the scalable generation of monodisperse droplets **WO06009854 (2006)**.
5. Mathiowitz, E., Nangia, A., Jacob, J.S., Kreitz, M.R., Doane, R., Donnelly, R. Oral administration of poorly absorbed drugs, methods and compositions related thereto **WO06026592 (2006)**.

#### **AEROSOL DRUG DELIVERY**

1. Schultz, R.K., Schultz, D.W., Moris, R.A. Suspension aerosol formulations **US20067105152 (2006)**.
2. Andrea, L.-B., Destardi, M.-S., Wilson, B.R. diketopiperazine salts, diketomorpholine salts or diketodioxane salts for drug delivery **WO06023943 (2006)**.
3. Annapragada, A., Bhavane, R. Agglomerated particles for aerosol drug delivery **US20067138136 (2006)**.
4. Ganderton, D., Morton, D.A.V., Lucas, P. Powders **US20066989155 (2006)**.
5. Liversidge, G., Jenkins, S. Aerosol and injectable formulations of nanoparticulate benzodiazepine **WO06088894 (2006)**.

#### **TRANSDERMAL DRUG DELIVERY**

1. Carter, S.G., Zhu, Z., Patel, K. Transdermal drug delivery formulations with optimal amounts of vasodilators therein **EP1621192 (2006)**.
2. Carter, S.G., Zhu, Z., Patel, K. Method of determining optimal amounts of vasodilators in transdermal drug delivery formulations **EP1617225 (2006)**.
3. Mitragotri, S., Karande, P., Jain, A.K. Molecules to enhance percutaneous delivery and methods for discovery therefor **WO06091297 (2006)**.

4. Reed, B.L., Morgan, T.M., Finnin, B.C. Dermal penetration enhancers and drug delivery systems involving same *EP1674068* (2006).
5. Scarampi, S., Elias, P.M. Gilsonite derived pharmaceutical delivery compositions and methods: Cosmetic and nail applications *WO06014545* (2006).
6. Kanios, D., Mantelle, J., Nguyen, V. Transdermal drug delivery device including an occlusive backing *WO06044206* (2006).
7. Huang, J.Z., Dipierro, G. Portable drug delivery device including a detachable and replaceable administration or dosing element *WO06127905* (2006).
8. Martens, J., Van, D.M.G., Van, H.J., Aerts, C., Mellaerts, R. Controlled release delivery system for bio-active agents *WO06026840* (2006).
9. Santini, J.J.T., Staples, M.A., Herman, S.J. Multi-reservoir device for transdermal drug delivery and sensing *WO06015299* (2006).
10. Jordan, F., Dolbear, G.E. A mixture for transdermal delivery of low and high molecular weight compounds *WO2006041538* (2006).
11. Murthy, Y.S.N. Pharmaceutical compositions for drug delivery and methods of treating or preventing conditions using same *WO06012146* (2006).
12. Cubicciotti, R.S. Prodrug compositions and drug delivery methods using synthetic receptors *US20067005132* (2006).

#### PERCUTANEOUS PERMEATION

1. Mitragotri, S., Karande, P., Jain, A.K. Molecules to enhance percutaneous delivery and methods for discovery therefor *WO06091297* (2006).
2. Reed, B.L., Morgan, T.M., Finnin, B.C. Dermal penetration enhancers and drug delivery systems involving same *EP1674068* (2006).
3. Scarampi, S., Elias, P.M. Gilsonite derived pharmaceutical delivery compositions and methods: cosmetic and nail applications *WO06014545* (2006).
4. McDaniel, D.H. Ultrasound enhancement of percutaneous drug absorption *US20067004933* (2006).
5. Kanios, D., Mantelle, J., Nguyen, V. Transdermal drug delivery device including an occlusive backing *WO2006044206* (2006).
6. Nguyen, V. Transdermal delivery of drugs based on crystal sizes *WO06041908* (2006).
7. Jones, G.S.J., St, L.J.P., Goodrich, S.A. Synthesis of fatty alcohol esters of  $\alpha$ -hydroxy carboxylic acids and their use as percutaneous absorption enhancers *WO06044926* (2006).
8. Bragagna, T., Braun, R., Gfrerer, D., Nussbaumer, B. Microporator for creating a permeation surface *WO06111200* (2006).
9. Chan, T. Enhancement of macrolide penetration through human skin *WO06099390* (2006).

10. Eppstein, J., Hatch, M.R., Papp, J. Apparatus for microporation of biological membranes using thin film tissue interface devices, and method for manufacturing *EP1645305* (2006).

#### MICROPORATION

1. Eppstein, J.A., Hatch, M.R., Yang, D. Microporation of human skin for drug delivery and monitoring *JP192285* (2006).
2. Nevenka, G.-L., Fricano, G., Danielson, M.S. System and method for drug delivery and microfluidic applications using microneedles *WO06022933* (2006).
3. Serafica, G.-L., Damien, C., Oster, G.A., Lentz, K., Hoon, R. Microbial cellulose materials for use in transdermal drug delivery systems, methods of manufacture and use *WO06113796* (2006).
4. Bragagna, T., Braun, R., Gfrerer, D., Nussbaumer, B. Microporator for parating a biological membran and integrated permeant administering system *WO06111199* (2006).
5. Coston, A.F., Sun, Y., Oakeson, R.W., Wisniewski, S.J., Wang, J.C.T. Tissue electroporation for enhanced drug delivery and diagnostic sampling *US20067133717* (2006).
6. Bragagna, T., Braun, R., Gfrerer, D., Nussbaumer, B. Laser microporator *WO06111201* (2006).

#### IONTOPHORESIS

1. Levin, G., Gershonowitz, A., Stern, M., Sherman, A. Combined micro-channel generation and iontophoresis for transdermal delivery of pharmaceutical agents *WO06054299* (2006).
2. Cormier, M.J.N., Padmanabhan, R.V. Transdermal electrotransport drug delivery systems with reduced abuse potential *WO06091774* (2006).
3. Greenberg, R.J., Mech, B.V. Coated microfluidic delivery system *US2006709775* (2006).
4. Henley, J.L., Chang, K.W., Potter, J., Goldberg, D.I. Electrokinetic delivery system for self-administration of medicaments and methods therefor *US20067016724* (2006).
5. Roy, P. Ocular iontophoresis device for delivering sirna and aptamers *WO06072887* (2006).

#### SONOPHORESIS

1. Belsky, Z., Marina, T-T. Local delivery of drugs or substances using electronic permeability increase *WO06064502* (2006).
2. Belsky, Z., Peled, S. Prolonged transit time of permeability-enhancing drug eluting pill *WO06064503* (2006).
3. Makin, I.R.S., Mensch, J., Noppe, M.J., Slayton, M.H. Ultrasonic surgical instrument for intracorporeal sonodynamic therapy *US20067135029* (2006).
4. Inoue, T., Nagayama, S., Nakao, K. Substituted *n*-sulfonylaminobenzyl-2-phenoxy acetamide compounds *WO06051378* (2006).

5. Tobia, A., Kappler, F. Dermal delivery of *n*-methyl-glucamine and *n*-methyl-glucamine compounds **WO06047409 (2006)**.

#### MICRONEEDLES

1. Stoeber, B., Liepmann, D., Pisano, A., Zimmermann, S. Method for forming hollow out-of-plane microneedles and devices formed thereby **WO06116605 (2006)**.
2. Illiescu, C., Tay, F.E.H., Tan, K.L. Microneedles **WO06101459 (2006)**.
3. Wang, P.M., Prausnitz, M.R., Martanto, W. Microneedles and methods for microinfusion **WO06128034 (2006)**.
4. Pettis, R.J., Down, J.A. Harvey N.G. Needle for intradermal delivery of substances having penetration limiting means **EP1625870 (2006)**.
5. Ringsred, T.K., Frederickson, F.L. Microneedle array applicator and retainer **WO06055802 (2006)**.
6. Kirby, A.J. Microneedle device for transdermal transport of fluid **WO06064270 (2006)**.

#### ENGINEERED NANOPARTICLES AND CANCER THERAPY

1. Kislev, H. Nanoparticle mediated ultrasound therapy and diagnostic imaging **WO06051542 (2006)**.
2. Mirkin, C.A., Cao, Y.-W., Jin, R. Non-alloying core shell nanoparticles **US20067135055 (2006)**.
3. Camby, I., Henriot, P., Lefranc, F., Courtoy, P., Kiss, R., Be use of a galectin-1-targeted RNAi-based approach for the treatment of cancer **WO06108474 (2006)**.
4. Blaesi, U., Hohenadl, C. Bacteriophage and prophage proteins in cancer gene therapy **WO06008312 (2006)**.
5. Tawakol, A., Hamblin, M. R., Migrino, R. Q., Gelfand, J. Methods of detection and therapy of inflamed tissues using immune modulation **WO06050058 (2006)**.
6. Schoenfisch, M. H., Ho, S. J., Stasko, N. Nitric oxide-releasing particles for nitric oxide therapeutics and biomedical applications **WO06128121 (2006)**.
7. Nie, S., Lee, Y. K., Kim, G. Multifunctional nanoparticles conjugates and their use **WO06042146 (2006)**.
8. Fritzberg, A. R., Abrams, P. G., Tatalick, L. M., Thaelke, K. R., Bryan, J. K. Hylarides, M. D., John, E. K., High dose radionuclide complexes for bone marrow suppression **US20067097823 (2006)**.
9. Gibbs, Jr. C. P., Steindler, D. Stem-like cells in bone sarcomas **WO06113181 (2006)**.
10. Handy, E. S., Ivkov, R., Ellis-Busby, D., Foreman, A., Brauhnut, S. J., Gwost, D. U., Ardman, B. Thermo-therapy via targeted delivery of nanoscale magnetic particles **US20066997863 (2006)**.

#### NANOSPHERES

1. Koritala, P. R., Koritala, S. Microparticles and nanoparticles for the transmucosal delivery of therapeutic and diagnostic agents **WO06088473 (2006)**.

2. Morello, A. P. I., Reineke, J., Cheifetz, P. M., Laulich, B., Mathiowitz, E. Drug delivery formulations for targeted delivery **WO06125074 (2006)**.
3. Appeldoorn, C. C. M., Van, B. T. J. Biessen, E. A. L. P-Selectin targeting ligand and compositions thereof **EP1638588 (2006)**.

#### NANOCAPSULES

1. Weber, J., Robaina, S. Localized drug delivery using drug-loaded nanocapsules and implantable device coated with the same **EP1610752 (2006)**.
2. Tardi, P., Webb, M., Harasym, T., Shew, C. Compositions for delivery of drug combinations **EP1693052 (2006)**.
3. Atanasoska, L., Holman, T.J., Weber, J., Warner, R., Schewe, S. Internal medical devices for delivery of therapeutic agent in conjunction with a source of electrical power **WO06086672 (2006)**.
4. Desnoyers, L., Eaton, D.L., Goddard, A., Godowski, P.J., Gurney, A.L., Pan, J., Stewart, T.A., Wood, W.I., Zhang, Z. Secreted and transmembrane polypeptides and nucleic acids encoding the same **EP1688430 (2006)**.
5. Wilson, M., Desai, K.J., Pauletti, G.M., Antoon, M.K. Jr., Clendening, C.E. Coated vaginal devices for vaginal delivery of therapeutically effective and/or health-promoting agents **WO06017341 (2006)**.

#### NANOTECHNOLOGY

1. Peyman, G.A. Ocular drug delivery **WO06108239 (2006)**.
2. Karmali, R.A., Method of increasing drug oral bioavailability and compositions of less toxic orotate salts **WO06091575 (2006)**.
3. Khuller, G.K., Pandey, R., Sharma, S. A process for the preparation of poly DL-lactide-co-glycolide nanoparticles having antitubercular drugs encapsulated therein **WO06109317 (2006)**.
4. Yamazaki, N., Surushima, H., Ooguro, N. Remedy or diagnostic for inflammatory disease containing target-directing liposome **EP1655022 (2006)**.
5. Yamazaki, N., Tsurushima, H., Kojima, S. Target-directed and enteric absorption-controlled liposome having sugar chain and cancer remedy and diagnostic containing the same **EP1655038 (2005)**.
6. Katsikis, P.D., Papazoglou, E.S., Wheatley, M.A, Babu, N.S., Boesteanu, A. Delivery vehicles, bioactive substances and viral vaccines **WO06074303 (2006)**.
7. Hashim, R., Heidelberg, T., Hassan, H., Mohd, R.N.Z., Duali, H.R.S., Hamzah, A.S., Radiman, S., Vill, V., Wulf, M., Ujiie, S., Glycolipids of branched chain alkyl oligosaccharides for liquid crystal and related applications **WO06098699 (2006)**.
8. Maurel, J.-C. Reverse M. Composition for delivery of metal cations comprising a diglyceride and a phytosterol and method of preparation **EP1652512 (2006)**.

9. Bitsch, L., Larsen, T.S., Nielsen, O.C. Pump assembly with active and passive valve **WO2006108775 (2006)**.
10. Makower, J., Chang, J.Y., Vransy, J.D., Walke, A.J., Implantable devices and methods for delivering drugs and other substances to treat sinusitis and other disorders **WO2006020180 (2006)**.

#### TARGETED DELIVERY

1. Wallace, M.P., Garabedian, R.J. Targeted drug delivery device **WO06023223 (2006)**.
2. Shalev, A. Vascular graft for *in vivo* hemodialysis and/or targeted delivery of a drug **WO06090362 (2006)**.
3. Safavy, A. Single-drug multi-ligand conjugates for targeted drug delivery **WO06060664 (2006)**.
4. Groth, A., Weese, J., Bredno, J.D. Apparatus and method for determining an injection point for targeted drug delivery **WO06085288 (2006)**.
5. Kochinke, F. Methods and drug delivery systems for the treatment of orofacial diseases **US20067074426 (2006)**.
6. Unger, E.C., Fritz, T.A., Matsunaga, T., Ramaswami, V.R., Yellowhair, D., Wu, G. Therapeutic delivery systems **US 7083572 (2006)**.
7. Tzekov, R.T., Hughes, P., Burke, J.A. Systems and methods providing targeted intraocular drug delivery **WO06096586 (2006)**.
8. Gwathmey, J.K. Targeted iron chelator delivery system **WO06065888 (2006)**.
9. Joergensen, K., Simon, S.J., Andresen, T.L. Drug delivery systems containing phospholipase A2 degradable lipid prodrug derivatives and the therapeutic uses thereof as. e.g. wound healing agents and peroxisome proliferator activated receptor ligands **WO06086992 (2006)**.
10. Kucharczyk, J., Gillies, G.T. A fluid delivery system **WO06113267 (2006)**.

#### IMMUNOTHERAPY

1. Hedlund, G., Forsberg, G., Wallen-Oehman, M. Treatment of hyperproliferative disease with superantigens in combination with another anticancer agent **WO06015882 (2006)**.
2. Bonavida, B., Dhmeq, A. A Sensitizing agent for chemotherapy and immunotherapy of resistant cancer cells **WO06060819 (2006)**.
3. Cristofanilli, M., Krishnamurthy, S., Menander, K., Hortobagyi, G.N. Cancer immunotherapy incorporating p53 **WO06055697 (2006)**.
4. Boruchov, A., Young, J.W. Modulation of Fc gamma receptors for optimizing immunotherapy **EPI674479 (2006)**.
5. Iyer, A., Dunussi-Joannopoulos, K. Immunotherapy of autoimmune disorders **WO06042240 (2006)**.
6. Lipford, G.B., Forsbach, A., Uhlmann, E., Wagner, H. Abasic oligonucleotide as carrier platform for antigen

and immunostimulatory agonist and antagonist **WO06080946 (2006)**.

#### THERMOTHERAPY

1. Fenn, A.J., Mon, J. System for heating the prostate gland using microwaves **EPI647305 (2006)**.
2. Wang, X., Greenwald, H.J. Materials and devices of enhanced electromagnetic transparency **WO06083668 (2006)**.
3. Handy, E.S., Ivkov, R., Ellis-Busby, D., Foreman, A. Thermotherapy via targeted delivery of nanoscale magnetic particles **US20067074175 (2006)**.
4. Eggers, P.E., Ridihalgh, J.L. System method and apparatus for localized heating of tissue **US20066993394 (2006)**.
5. Larson, T., Toth, L. Electro active compression bandage **EPI645254 (2006)**.

#### MODIFIED-RELEASE SOLID FORMULATIONS FOR COLONIC DELIVERY

1. Penhasi, A. Controlled absorption of statins in the intestine **WO06054307 (2006)**.
2. Nangia, A., Jacob, J.S., Moslemy, P. Bioadhesive rate-controlled oral dosage formulations **WO06026556 (2006)**.
3. Green, S.P., Lazzari, O.A., Miller, D.C., Salingue, F.H. Novel salt form of a dopamine agonist **WO06082511 (2006)**.
4. Nangia, A., Jacob, J., Mathiowitz, E., Ricketts, T., Kreitz, M.R. Multi-layer tablets and bioadhesive dosage forms **WO06031420 (2006)**.
5. Kana, K.-I., Matsumizu, M., Shima, A. Sulfonyl benzimidazole derivatives **WO06048754 (2006)**.
6. Weidner, M.S. Combination of a beta-2 adrenoceptor agonist and an aminosugar and their use for the treatment of immunomodulatory disorders **EPI642574 (2006)**.
7. Fish, P.V., Ryckmans, T., Stobie, A., Wakenhut, F. Novel compounds **WO06064336 (2006)**.
8. Andrews, M.D., Brown, A.D., Fish, P.V., Fray, M.J., Lansdell, M., Ryckmans, T., Stobie, A., Wakenhut, F., Gray, D.L.F. Novel compounds **WO06064351 (2006)**.
9. Fish, P.V., Ryckmans, T., Stobie, A., Wakenhut, F., Whitlock, G.A. N-(3S)-Pyrrolidin-3-yl]-benzamide derivatives as monoamine re-uptake inhibitors **WO06056884 (2006)**.

#### COATED DRUG DELIVERY

1. Betageri, G.V. Coated drug delivery formulations **WO06060325 (2006)**.
2. Lerner, E., Rosenberger, V., Aqua, O., Moshe, F.-B. Dosage forms with an enterically coated core tablet **WO06012634 (2006)**.
3. Appel, L.E., Friesen, D.T., Herbig, S.M., Thombre, A.G. Controlled release dosage forms combining immediate

release and sustained release of low-solubility drug *WO06024949 (2006)*.

4. Cao, B., Wassink, S.E., Treacy, D., Burnside, B.A., Rowlings, C.E., Bonck, J.A. Tablet for pulsed delivery *WO06014427 (2006)*.
5. Bhatt, P., Cruz, E.G., Yam, N. Osmotic controlled delivery of active agents *EPI652516 (2006)*.

#### COLONIC DELIVERY

1. Huguet, H.-C., Fattal, E., Andremont, A., Tsapis, N. Colonic delivery of adsorbents *WO06122835 (2006)*.
2. Ostroff, G.R. Drug delivery product and methods *WO06007372 (2006)*.
3. Yatvin, M.B. Chitosan-coated liposome drug delivery of antioxidant or anti-inflammatory compounds *WO06062544 (2006)*.
4. Penhasi, A., Ruderman, M., Gomberg, M. Controlled absorption of statins in the intestine *WO06103661 (2006)*.
5. Jacob, J.S., Moslemy, P., Nangia, A., Shaked, Z. E., Kreitz, M. Mucoadhesive oral formulations of high permeability, high solubility drugs *WO06026504 (2006)*.
6. Fattal, E., Andremont, A., Couvreur, P., Bourgeois, S., Colonic delivery of active agents *WO06085075 (2006)*.
7. Yatvin, M.B. Chitosan-coated liposome drug delivery of antioxidant or anti-inflammatory compounds *WO06062506 (2006)*.
8. Dharmadhikari, N.B., Zala, Y.R. Oral drug delivery system *WO06123364 (2006)*.
9. Faour, J., Vergez, J. A. Breakable controlled release device comprising a preformed passage *EPI629835 (2006)*.
10. Carding, S., Farrar, M. Controlled production and delivery of biologically active agents by gut bacteria *WO2006079790 (2006)*.

#### OSMOTIC-CONTROLLED SYSTEMS

1. Verma, R.K., Viswanathan, N.B., Raghuvanshi, R.S., Rampal, A. Monocompartment osmotic-controlled delivery system of doxazosin *WO06054152 (2006)*.
2. Leclair, S., Grosse, J., Popp, A., Zeitlmann, L., Marquardt, A. Agents useful in treating inflammatory bowel disease *WO06070012 (2006)*.
3. Arkin, M., Irit, G.-A., Weizman, A., Lomnitski, L., Asculai, E., Zeevi, a. Treatment of disorders and diseases of the colon *WO06006152 (2006)*.
4. Verma, R.K., Viswanathan, N.B., Raghuvanshi, R.S., Rampal, A. Osmotic dosage forms providing ascending drug release, and processes for their preparation *WO06046114 (2006)*.
5. Geerke, J.H. Dosage forms having a barrier layer to laser ablation *US20067011850 (2006)*.

#### DRUG DELIVERY

1. Badman, A., Al-Remawi, M. Controlled release oral drug delivery system *EPI721602 (2006)*.
2. Reed, B.L., Morgan, T.M., Finin, B.C. Dermal penetration enhancers and drug delivery systems involving same *EPI674068 (2006)*.
3. Yamada, K., Sasaki, Y., Sakai, H., Matsuno, K. Drug delivery system for sub-tenon's capsule administration of fine grains *EPI666025 (2006)*.
4. Brahmabhatt, H., Macdiarmid, J. Compositions and methods for targeted in vitro and *in vivo* drug delivery to mammalian cells via bacterially derived intact minicells *EPI718338 (2006)*.
5. Tanaka, D. Pulmonary drug delivery *EPI658866 (2006)*.
6. Carter, S.G., Zhu, Z., Patel, K. Transdermal drug delivery formulations with optimal amounts of vasodilators therein *EPI621192 (2006)*.
7. Shefer, A., Shefer, S., Oral controlled release system for targeted drug delivery into the cell and its nucleus for gene therapy, DNA vaccination and administration of gene based drugs *EPI720522 (2006)*.
8. Voorspoels, J., Ody, F., Irmin, M. Self-microemulsifying drug delivery systems of a HIV protease inhibitor *EPI715847 (2006)*.
9. Ashton, P., Chen, J., Su, D. *In-situ* gelling drug delivery system *EPI635875 (2006)*.
10. Sengupta, S., Zhao, G., Capila, I., Eavarone, D., Sasisekharan, R. Nanocell drug delivery system *EPI722762 (2006)*.
11. Ashton, P., Chen, J., Guo, H., Su, D. Bioerodible sustained release drug delivery systems *EPI635787 (2006)*.
12. Huang, J. Z., Dipierro, G. Portable drug delivery device including a detachable and replaceable administration or dosing element *WO06127905 (2006)*.

#### SMART POLYMER BASED DELIVERY SYSTEMS FOR PEPTIDES AND PROTEINS

1. Breitenkamp, K., Sill, K., Skaff, H., Breitenkamp, R. Polymeric micelles for drug delivery *WO06107903 (2006)*.
2. Sellergren, B., Titirici, M.M. Polymer films *WO06004537 (2006)*.
3. Freeman, W., Sailor, M., Cheng, L., Cunin, F., Anglin, E., Li, Y.Y. Porous photonic crystals for drug delivery to the eye *WO06050221 (2006)*.
4. Atanasoska, L., Holman, T.J., Weber, J., Warner, R., Schewe, S. Internal medical devices for delivery of therapeutic agent in conjunction with a source of electrical power *WO2006086672 (2006)*.
5. Jeong, B., Gutowska, A. Thermogelling oligopeptide polymers *US20067087244 (2006)*.
6. Bejanin, S., Tanaka, H. Human cDNAs and proteins and uses thereof *US20067005500 (2006)*.

7. Mueller, J., Figgemeier, E. An RHCC peptide and uses thereof **WO06112777 (2006)**.
8. Watt, P.M., Fear, M., Payne, T. Peptide inhibitors of c-Jun dimerization and uses thereof **WO06017913 (2006)**.
9. Schneider, J.P., Pochan, D.J. Novel hydrogels and uses thereof **WO06076042 (2006)**.
10. Nangia, A., Jacob, J., Mathiowitz, E., Ricketts, T.L., Kreitz, M.R. Multi-layer tablets and bioadhesive dosage forms **WO06031420 (2006)**.
11. Cubicciotti, R.S. Prodrug compositions and drug delivery methods using synthetic receptors **US20067005132 (2006)**.
12. Roy, K., Shi, L., Glang, C.L.C.S. Methods for fabricating nano and microparticles for drug delivery **WO06121819 (2006)**.
13. Minter, S., Ulynova, J. Drug delivery from electroactive molecularly imprinted polymer **WO06099248 (2006)**.
14. Thayumanavan, S. Invertible amphiphilic polymers **WO06093525 (2006)**.
15. Goldshtein, R., Gitis, L., Mikunis, V., Ratner, G., Tulbovitz, B., Zelkind, I., Goldshtein, V. Solvent-free process for preparation of hydrophilic dispersions of nanoparticles of inclusion complexes **WO06106520 (2006)**.
16. Mather, P.T., Ge, Q., Liu, C. Shape memory polymers based on semicrystalline thermoplastic polyurethanes bearing nanostructured hard segments **US20067091297 (2006)**.
17. Banik, M.S. Electroactive polymer based artificial sphincters and artificial muscle patches **US20067128707 (2006)**.

#### INJECTABLE DRUG DELIVERY

1. Rosenblatt, J.S., Berg, R. A injectable drug-delivery medicinal preparation of collagen base and its use **JP131648 (2006)**.
2. Lim, T.-H., Park, J.B., Lee, J. W. *In situ* controlled release drug delivery system **WO06047279 (2006)**.
3. Falotico, R., Zhao, J.Z. Injectable formulations of taxanes for CAD treatment **EPI1618879 (2006)**.
4. Shah, J.C. Depot formulation of arylheterocyclic active agent in form of suspension **JP219501 (2006)**.
5. Liversidge, G., Jenkins, S. Injectable compositions of nanoparticulate immunosuppressive compounds **WO06101972 (2006)**.

#### PEPTIDE DRUG DELIVERY

1. Tomich, J., Takeo, I., Edelhauser, H., Mccarey, B. Peptide-enhanced corneal drug delivery **WO06066083 (2006)**.
2. Christensen, L., Pettersson, I., Kodra, J.T. Peptide agonists of the glucagon family with secretin like activity **WO06097535 (2006)**.

3. Sharma, V., David, P.-W. Blood brain barrier permeation peptides **WO06026184 (2006)**.
4. Wu, C.W., Burke, P., Goldenberg, M.S., Shan, D. Peptide sustained release compositions and uses thereof **WO06116565 (2006)**.
5. Costantino, H.R., Kleppe, M.S., Cohen, A.S. Peptide YY formulations having increased stability and resistance to microbial agents **WO06007412 (2006)**.

#### PROTEIN DRUG DELIVERY

1. Sen, L., Guanggen, C. Ultra low strength electric field network-mediated *ex vivo* gene, protein and drug delivery in cells **WO06102684 (2006)**.
2. Tu, H., Sung, H.-W. Nanoparticles for protein drug delivery **WO06073950 (2006)**.
3. Choi, S.Y., Jeh, H.S. Sustained release composition of protein drug **WO06088336 (2006)**.
4. Takahashi, M. Protein oral administration preparation and protein oral administration method **JP124361 (2006)**.
5. Shih, C., Zentner, G., Piao, A.-Z. Proteins deposited onto sparingly soluble biocompatible particles for controlled protein release into a biological environment from a polymer matrix **US20066998137 (2006)**.

#### TIME-CONTROLLED PULSATILE DELIVERY SYSTEMS

1. Percel, P.J., Vishnupad K.S., Venkatesh, G.M., Lee, D.Y. Timed pulsatile drug delivery systems **US20067048945 (2006)**.
2. Nangia, A., Jacob, J., Moslemy, P. Bioadhesive rate-controlled oral dosage formulations **WO06026556 (2006)**.

#### RESERVOIR DEVICES

1. Santini, J.T. Jr., Sbiaa, Z., Coppeta, J.R. Multi-cap reservoir devices for controlled release or exposure of reservoir contents **WO06026768 (2006)**.
2. Muhammad, N., Jamieson, G.C., Bley, K.R. Device for delivery of TRPV1 agonists **WO06089012 (2006)**.
3. CIMA, M.J., Santini, Jr. J., Staples, M.A., Hutchinson, C.E. Orthopedic and dental implant devices providing controlled drug delivery **WO06050106 (2006)**.
4. Santini, Jr., John, T., Cima, M.J., Langer, R.S. Microchip drug delivery devices **US20067070590 (2006)**.
5. Maloney, J.M., Sbiaa, Z., Santini, J.T. Jr., Sheppard, N.F. Jr., Uhland S.A. Fabrication methods and structures for micro-reservoir devices **WO06055593 (2006)**.

#### CAPSULAR DEVICES

1. Herman, S.J., Krieger, T., Santini, J. Jr., Prescott, J.H., Staples, M.A., Lipka, S.A. Devices and methods for measuring and enhancing drug or analyte transport to/from medical implant **WO06085908 (2006)**.

2. Gelfand, M., Levin, H.R. Methods and devices for renal nerve blocking **WO06022790 (2006)**.
3. Hunter, W.L., Gravett, D.M., Toleikis, P.M., Maiti, A. Implantable sensors and implantable pumps and anti-scarring agents **WO06055008 (2006)**.
4. Liggins, R.T., Toleikis, P.M. Microparticles with high loadings of a bioactive agent **WO06002365 (2006)**.
5. Wang, X., Greenwald, H.J. Medical device with low magnetic susceptibility **WO06014524 (2006)**.
6. Gaede, J.E., Albano, R.J. Multiplex drug delivery device **WO06020522 (2006)**.
7. Dadey, E., Lindemann, C.M., Warren, S.L., Norton, R.L. Ocular delivery of polymeric delivery formulations **WO06041942 (2006)**.
8. Lee, G.U., Park, J.-W., Wang, Z. Porous biosensing device **WO06076703 (2006)**.
3. Boyan, B.D., Kinney, R.C., Schwartz, Z. Microencapsulation of cells in hydrogels using electrostatic potentials **WO06042132 (2006)**.
4. Chatterjee, J., Haik, Y., Chen, C.-J. Microencapsulation of magnetic material using heat stabilization **US20066989196 (2006)**.
5. Hahn, M. Appliance for ironing or steaming linen, comprising a container for additive **WO06095226 (2006)**.
6. Camp, A.D., Russell, T.D. Slitting of micro-encapsulated media **WO06044985 (2006)**.
7. Desnoyers, L., Eaton, D.L., Goddard, A., Godowski, P.J., Gurney, A. L., Pan, J., Stewart, T.A., Wood, W.I., Zhang, Z. Secreted and transmembrane polypeptides and nucleic acids encoding the same **EP1688430 (2006)**.
8. Baker, K. P., Desnoyers, L., Gerritsen, M. E., Goddard, A., Godowski, P.J., Grimaldi, C. J., Gurney, A.L., Smith, V., Stephan, J-P. F., Watanabe, C. K., Wood, W.I. Secreted and transmembrane polypeptides and nucleic acids encoding the same **EP1686174 (2006)**.
9. Baker, K.P., Desnoyers, L., Gerritsen, M.E., Goddard, A., Godowski, P.J., Grimaldi, C.J., Gurney, A.L., Smith, V., Stephan, J-P.F., Watanabe, C.K., Wood, W.I. Secreted and transmembrane polypeptides and nucleic acids encoding the same **EP16838649 (2006)**.
10. Jain, K., Rubin, A. L. Macroencapsulated secretory cells **EP1666585 (2006)**.
11. Verbruggen, A., Veys, E. Use of polysulphated alginate in cellular matrices **EP1711595 (2006)**.
12. Maguire, T., Schloss, R., Yarmush, M. Alginate poly-l-lysine encapsulation as a technology for controlled differentiation of embryonic stem cells **WO06122147 (2006)**.
13. Soper, J.C., Molnar, J., Vale, J. M. Alginate matrix particles **EP1622470 (2006)**.
14. Ballard, A.D., Sewall, C.J., Modliszewski, J.J., Blake-more, W.R., Riley, P.J. Delivery systems of homogeneous thermoreversible alginate films **EP1622588 (2006)**.
15. Modliszewski, J.J., Ballard, A.D., Sewall, C.J., Blake-more, W.R., Riley, P.J. Homogeneous, thermoreversible alginate films and soft capsules made therefrom **EP1622594 (2006)**.
16. Melvik, J.-E., Dornish, M., Onsoyen, E., Berge, A.B., Svendsen, T. Self-gelling alginate systems and uses thereof **WO2006044342 (2006)**.
17. Ramirez-Delgado, R.A. Automatic machine for dispensing metered amounts of water and dental alginate **WO2006109150 (2006)**.
18. Boutique, J.-P., Broeckx, W.A.M., Stonehouse, J.R., Vanderveken, W. F., Meconnachie, A-L., Microcapsules **EP1669437 (2006)**.
19. Simoyama, M., Hamada, K., Yonesige, S., Hirai, K. Thermal recording medium **EP1655143 (2006)**.

### OSMOTIC DELIVERY SYSTEMS

1. Ferreira, P.J., Desjardin, M.A., Rohl, O.C.M., Berry, S.A., Ekaterina, Z.-K. Non-aqueous single phase vehicles and formulations utilizing such vehicles **WO06084140 (2006)**.
2. Feleder, E.C., Meyer, G.A., Ricci, M.A., Befumo, M.F., Faour, J., Pastini, A.C. Osmotic device containing a venlafaxine salt and a salt having a common ion **EP1714641 (2006)**.
3. Hunter, W.L., Toleikis, P.M., Gravett, D.M., Maiti, A., Liggins, R.T., Aniko, T.-C., Avelar, R., Signore, P.E., Loss, T.A.E., Hutchinson, A., Gaye, M.-J., Lakhani, F. Implantable sensors and pumps, anti-scarring agents, and therapeutic compositions **WO06121522 (2006)**.
4. Theeuwes, F., Dennis, I., Bonnie, B., Eckenhoff, B. Osmotic delivery system having space efficient piston **US20066997922 (2006)**.
5. Joshi, A.V., Zecevic, S., Bhavaraju, S., Theeuwes, F., Wright, J.C. Fluid delivery device having an electrochemical pump with an ion-exchange membrane and associated method **WO06128039 (2006)**.
6. Levitan, J., Bazant, M.Z., Schmidt, M., Thorsen, T. Microfluidic pumps and mixers driven by induced-charge electro-osmosis **WO06110177 (2006)**.
7. Stultz, M.R. Programmable implantable pump with accessory reservoirs and multiple independent lumen catheter **US20067083593 (2006)**.
8. Unger, M.A., Chou, H.-P., Thorsen, T.A., Scherer, A., Quake, S.R. Microfabricated elastomeric valve and pump systems **US20067144616 (2006)**.
9. Pettersson, I., Christensen, L. Compounds for use in the treatment of obesity **WO06097526 (2006)**.

### MICROENCAPSULATION

1. Yamada, K., Sasaki, Y., Tasaka, F., Kuwano, M. Process for producing microparticle **EP1629833 (2006)**.
2. Speaker, T.J. Microencapsulation product and process **WO06063030 (2006)**.

20. Boutique, J.-P., Broeckx, W.A.M., Stonehouse, J.R., Vanderveken, W.F. Microcapsules **EP1634944 (2006)**.
21. De Leo, V., La Marca, A. Use of follicle stimulating hormone for reduction of spermatozoa chromosomal aberration in males **EP1673105 (2006)**.
22. Seidel, G.E., Suh, T.K., Lu, K. System for *in vitro* fertilization with spermatozoa separated into X-chromosome and Y-chromosome bearing populations **US20067094527 (2006)**.
23. Kaddurah-Daouk, R., Daouk, G., Beal, M. F. Use of creatine or creatine analogs for the treatment of diseases of the nervous system **EP1719510 (2006)**.
24. Edelmann, W., Kolodner, R.D., Pollard, J.W., Kucherlapati, R.S. MSH5 ablated mice and uses therefor **EP1649746 (2006)**.
25. Torres, S.J.L., Alvarez, G.J.J. Use of flavanol derivatives for the cryopreservation of living cells **EP1627565 (2006)**.
26. Matzuk, M.M., Wang, P. Ovary-specific genes and proteins **EP1645562 (2006)**.
27. Hoerr, I., Rammensee, H.G., Jung, G., Obst, R. Transfer of mRNA using polycationic compounds **EP1619254 (2006)**.
28. Betsholtz, C., Tryggvason, K., Takemoto, M., He, L., Patrakkas, J. Glomerular expression profiling **WO06100066 (2006)**.
29. Wagenfeld, A., Siemeister, G., Lindenthal, B. Use of CDK II inhibitors for fertility control **WO06087230 (2006)**.
30. Neas, E.D., Kuiken, J.E., Schenk, J.L., Gilligan, T.B. Pressure regulated continuously variable volume container for fluid delivery **WO06060770 (2006)**.
31. Cox, D.R., Ballinger, D., Beilharz, E., Konvicka, K., Stuve, L. Genetic basis of Alzheimer's disease and diagnosis and treatment thereof **WO06083854 (2006)**.
32. Cen, J., Zhong, H. A-substituted 2-methyl-5-nitroimidazol-1-ethanol derivatives **WO06058457 (2006)**.
33. Thorpe P E., Luster, T. A., King, S., W. Constructs binding to phosphatidylserine and their use in disease treatment **WO06079120 (2006)**.
34. Petros, J., Baumann, A., Wallace, D. C., Sun, C., Issa, M., Marshall, F., F. Inherited mitochondrial DNA mutations in cancer **WO06076153 (2006)**.
35. Maclachlan, I., Ambegia, E.G., Heyes, J. Lipid encapsulated interfering RNA **WO06074546 (2006)**.
36. Hwang, W.-S., Lee, B.-C., Kang, S.-K., Kim, S.-W., Kwon, D.-K., Kim, S., Park, S.-W., Han, K.-H., Choi, J.-H., Hwang, J.-H., Paek, S.-H., Koo, J.-J., Chang, S.-S., Kim, D.-Y., Lee, C.-K., Roh, S.-I., Kim, S.-J. Human embryonic stem cell created from an oocyte and a somatic cell derived from non-identical individuals and a method for preparing the same **WO06083133(2006)**.
37. Dabrowski, P., Hingley, R. Oocyte handling apparatus **WO06010878 (2006)**.
38. Torres, S., Josep, L., Alvarez, G. J.J. Use of flavanol derivatives for the cryopreservation of living cells **EP1627565 (2006)**.
39. Davis, G.H., Galloway, S.M., McNatty, K.P., Ritvos, O.V.-P., Juengel, J.L., Vuojolainen, K. N. J., Laitinen, M.P.E. Nucleotide and amino acid sequences of oocyte factors for altering ovarian follicular growth in vivo or *in vitro* **US20067098183 (2006)**.
40. Oko, R., Sutovsky, P. PT32 sperm protein, sperm c-Yes, oocyte cytoplasmic c-Yes and uses thereof **US20066995252 (2006)**.
41. Hogg, R., Hartmann, R., Stocklin, R., Bertrand, D. Sample transfer system **WO06056920 (2006)**.
42. Sato, M., Shimizu, T., Hashimoto, H., Yamada, M., Hidaka, Y., Peptidyl arginine deiminase type IV inhibitor **EP1717224 (2006)**.
43. Yang, X., Dinnyes, A. Oocyte vitrification technique **US20066982172 (2006)**.
44. Matzuk, M., Wang, P. Ovary-specific genes and proteins **EP1645562 (2006)**.
45. Illek, B., Fischer, H.B. Flavonoids for cystic fibrosis therapy **EP1669067 (2006)**.
46. Del, C.S.B., Mathew, B., Stemmer, W.P.C., Ness, J.E., Minshull, J., Patten, P. Evolution of whole cells and organisms by recursive sequence recombination **EP1717322 (2006)**.
47. Van, K.J.A.L., Ten, H.A., Lindhout, W.H., Finkers, H.J., Van, B.R., Van, H.A.W. Botrytis-resistant tomato plants **EP1652930 (2006)**.
48. Allersma, A. P., Hofstede, R.J. M., Vreugdenhill D. PMMoV resistant capsicum plants **EP1647182 (2006)**.
49. Brenig, B., Harlizius, B., Knorr, C., Bornemann-Kolatzki, K. Genetic regions associated with scrotal or inguinal hernia **EP1630236 (2006)**.
50. Forsberg, E., Mallon, K. S., Golueke, P. J., Bishop, M. D. Cloning of transgenic ungulate animals comprising artificial chromosomes **EP1611785 (2006)**.
51. Bridon, D.P., Ezrin, A.M., Holmes, D.L., Thibaudeau, K., Milner, P.G. Protection of endogenous therapeutic peptides from peptidase activity through conjugation to blood components **EP1623994 (2006)**.
52. Pellicer-Martinez, A., Arce, J.-C., Simon-Valles, C., Gomez-Gallego, R. Treatment or prevention of ovarian hyperstimulation syndrome (OHSS) using a dopamine agonist **WO06117608 (2006)**.
53. Parinov, S., Alexander, E. Transposition of maize AC/DS elements in vertebrates **WO06124001 (2006)**.
54. Guercioli, R., Mcswiggen, J., Jadhav, V., Vargeese, C. RNA interference mediated inhibition of stromal cell-derived factor-1 (SDF-1) gene expression using short interfering nucleic acid **WO06128141 (2006)**.
55. Xu, T., Han, M., Zhuang, Y., Wu, X., Ding, S., Li, G. Piggybac as a tool for genetic manipulation and analysis in vertebrates **WO06122442 (2006)**.

56. Kermode, A. Enhancing vegetative protein production in transgenic plant cells using seed specific promoters **WO06119627 (2006)**.

#### CELL ENCAPSULATION AND MAMMAL REPRODUCTION

1. Wang, L., Babiuk, L.A., Potter, A.A., Willson, P. Post-weaning multisystemic wasting syndrome virus from pigs **US20067144698 (2006)**.
2. Mobashery, S., Fridman, R. Inhibitors of matrix metalloproteinases **US20067144917 (2006)**.
3. Silence, K. Improved nanobodies for the treatment of aggregation-mediated disorders **WO06122825 (2006)**.
4. Feder, J.N., Ramanathan, C.S., Mintier, G. Polynucleotides encoding a human leucine-rich repeat domain containing protein, HLLRCR-1 **US20067129085 (2006)**.
5. Kung, H.-F., He, M.-L., Zheng, B.-J., Guan, Y., Lin, M. C.-M., Peng, Y. Inhibition of SARS-associated coronavirus (SCoV) infection and replication by RNA interference **US20067129223 (2006)**.
6. O'Neil, J., Xu, J., Rezanian, A. Adult pancreatic derived stromal cells **WO06094286 (2006)**.
7. Hendricks, J.K., Mitchell, J.B II. Adipose derived adult stromal cells exhibiting characteristics of endothelial cells **WO06084284 (2006)**.
8. Block, S.S., Cecava, M.J., Doane, P.H. Animal feed compositions capable of reducing the incidence of fescue toxicosis in mammals **WO06081588 (2006)**.
9. Xu, H.-J., Hu, S.-X., Mills, G.B. Endogenous granzyme B in non-immune cells **US20067074911 (2006)**.
10. Kulkarni, S.B., Shah, H.S. Variable-dose packaging system **WO06019760 (2006)**.

#### IN VITRO MATURATION

1. De Matos, D.G., Tran, C.A., Clark, A.M., Palmer, S.S. Use of pregnancy specific glycoprotein for maturation of oocytes **WO06039604 (2006)**.
2. De Matos, D.G., Tran, C.A., Clark, A.M., Palmer, S.S. Use of IL-17- for maturation of oocytes **WO06039592 (2006)**.
3. Seidel, G.E. Suh, T.K., Lu, K. System for *in vitro* fertilization with spermatozoa separated into X-chromosome and Y-chromosome bearing populations **US20067094527 (2006)**.
4. Lopez, R.A. Oligonucleotides that induce the secretion of GM-CSF **EPI657307 (2006)**.
5. Van, L.C.M., Dirks, R., Peeters, R., Liu, C.-M., Li, S., Heberle-Bros, E., Touraev, A. Reversible male-sterile plants **WO06125678 (2006)**.
6. Bremel, R.D., Chan, A.W.S., Burns, J.C. Transgenic animals **US20067138562 (2006)**.
7. Boyle, W.J. Osteoprotegerin binding proteins and receptors **EPI1717315 (2006)**.

8. Weier, H.-U., Munne, S. Full karyotype single cell chromosome analysis **WO06091979 (2006)**.
9. Harty, J., Badovinac, V.P., Messingham, K.A.N. Accelerated CD8<sup>+</sup> T-cell memory after dendritic cell vaccination **WO06099448 (2006)**.
10. Han, Y.-M., Lee, K.-K., Chang, M., Koo, D.-B. Cattle beta-casein gene targeting vector using homologous recombination **WO06057499 (2006)**.
11. Holtet, T.L., Andersen, M.H., Ottow, H.K., Munch, M., Nieland, J.D. TNF antagonists **WO06053568 (2006)**.
12. Lopez, R.A. Oligonucleotides that induce the secretion of GM-CSF **WO06053861 (2006)**.
13. Han, Y.-M., Lee, K.-K., Chang, M., Koo, D.-B. Beta-casein gene targeting vector using homologous recombination **WO06057466 (2006)**.
14. Dodgson, J. R., Fortt, R., Austen, M., Miller, B., Cattini, R. Cellular entity maturation and transportation systems **WO06097751 (2006)**.
15. Aggarwal, B. Osteoclastogenesis inhibitors and uses thereof **WO06046934 (2006)**.

#### IN VITRO FERTILIZATION

1. Nakatsuji, N., Tada, T., Torii, R., Hosoi, Y., Iritani, A., Akuta, T. Monkey-origin embryonic stem cells **US20067083977 (2006)**.
2. Qadir, M.N., Sheikh, E. Q., Ullah, S.H., Qadir, S., Sheikh, Z.Q., Seemien, S., Sheikh, W. Q., Qadir, M. N., Sadaf, S., Baigum, S. A remote controlled tubular implant device and implanting apparatus **WO06114004 (2006)**.
3. Mandal, A., Sachdev, M., Herr, J.C. Novel egg receptors for sperm proteins **WO06091535 (2006)**.
4. Matzuk, M. M., Wang, P. Ovary-specific genes and proteins **US20066995251 (2006)**.
5. Herickhoff, L, A., Herickhoff, J.A. Reproductive cell system **WO06107912 (2006)**.
6. Schrick, F. N. Improving embryo development and survival **WO06078535 (2006)**.
7. Pellicer-Martinez, A., Arce, J.-C., Simon-Valles, C., Gomez-Gallego, R. Treatment or prevention of ovarian hyperstimulation syndrome (OHSS) using a dopamine agonist **WO06117608 (2006)**.
8. Christmann, L. Eberhardt, D.M., Leavitt, M.C., Harvey, A.J. Artificial chromosomes and transchromosomal avians **WO06093847 (2006)**.
9. Kato, A. Chromosome doubling method **US20067135615 (2006)**.

#### SERTOLI CELL

1. Fanidi, A., Booher, R., Tse, C. Cancer-related genes (PRLR) **WO06110585 (2006)**.
2. DeFrees, S., Zopf, D.A. Bowe, C. Remodeling and glycoconjugation of peptides **US20067138371 (2006)**.

3. Bennet, B., Carter, P.J., Chiang, N. Y., Kim, K. J., Matthews, W., Rodrigues, M. L. WSX receptor and ligands *EP1619250 (2006)*.
  4. Guicherit, O. M., Boyd, E. A., Brunton, S. A., Price, S., Stibbard, J.H.A., Mackinnon, C.H. Mediators of hedgehog signaling pathways, compositions and uses related thereto *WO06050506 (2006)*.
  5. Carlson, W. Keck, P. C., Sworin, M., Bosukonda, D. TDF-related compounds and analogs thereof *WO06009836 (2006)*.
  6. Georg G.I., Tash, J. S., Chakrasali, R., Jakkaraj, S.R. Lonidamine analogues and their use in male contraception and cancer treatment *WO06023704 (2006)*.
  7. De Sauvage, F.J., Murone, M., Rosenthal, A., Stone, D. M., Gurney, A.L., Wood, W.I. Nucleic acid encoding human suppressor of fused *US20067144996 (2006)*.
  8. Ruben, S.M., Rosen, C.A., Olsen, H. Protein HDPBQ71 *US20067091315 (2006)*.
  9. Rosen, C.A., Haseltine, W.A. Proteins *US20066994857 (2006)*.
  10. Wells, K., Ayares, D. Ungulates with genetically modified immune systems *WO06047603 (2006)*.
- LEYDIG CELL**
1. Bloxham, J., Borzillo, G.V., Collington, E. W., Sadiq, S., Sambrook, S. C. P., Waller, C.L., Wynne, G.M. Integrin antagonists useful as anticancer agents *WO06053342 (2006)*.
2. O'Neil, J., Xu, J., Rezania, A. Adult pancreatic derived stromal cells *WO06094286 (2006)*.
  3. Fanidi, A., Booher, R., Tse, C. Cancer-related genes (PRLR) *WO06110585 (2006)*.
  4. Safe, S. H., Papineni, S. Activation of the DAX-1 and SHP nuclear orphan receptors *WO06121633 (2006)*.
  5. Robinson, I.C.A.F., Stoye, J.P., Flavell, D., Wells, S.E., Le Tissier, P. Obesity gene *US20066998472 (2006)*.
  6. Rosen, C. A., Haseltine, W. A., Balance, D.J., Turner, A.J., Ruben, S. M. Albumin fusion proteins comprising GLP-1 polypeptides *US20067141547 (2006)*.
  7. Ruben, S. M., Rosen, C. A. Olsen, H. Protein HDPBQ71 *US20067091315 (2006)*.
  8. Salvati, M.E., Balog, J.A., Pickering, D.A., Giese, S., Fura, A., Li, W., Patel, R.N., Hanson, R.L., Mitt, T., Roberge, J.Y., Corte, J.R., Spergel, S.H., Rampulla, R.A., Misra, R. N., Xiao, H-Y. Fused heterocyclic succinimide compounds and analogs thereof, modulators of nuclear hormone receptor function *US20067141578 (2006)*.
  9. Szkudlinski, M.W., Weintraub, B.D., Grossmann, M. Follicle stimulating hormone superagonists *US20067070788 (2006)*.
  10. Salvati, M.E., Balog, J.A., Shan, W., Giese, S., Harikrishnan, L.S. Fused cyclic modulators of nuclear hormone receptor function *US20067001911 (2006)*.