

Osteolysis

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Osteolysis refers to an active resorption or dissolution of bone tissue as part of an ongoing disease process. While bone resorption is commonly associated with many diseases or joint problems, the term osteolysis generally refers to a problem common to artificial joint replacements such as total hip replacements, total knee replacements and total shoulder replacements. In total hip replacement, the particles worn off the gliding surface of the ball and socket joint often cause osteolysis. As the body attempts to clean up these loose particles of plastic or metal, the bone grows away from the implant, causing it to loosen. This may require a revision surgery. Distal clavicular osteolysis is often associated with problems weightlifters have with their acromioclavicular joints due to high stresses put on that the clavicle as it meets with the acromion. A common surgery to cure this problem is re-sectioning of the distal clavicle, removing a few millimeters of bone from the very end of the the

bone. Category: Geriatrics Category: Orthopedics Category: Musculoskeletal

disorders Category: Arthritis de: Osteolyse Osteoma An osteoma is a new piece of bone usually growing on another piece of bone, typically the skull. It is a benign tumor. When the bone tumor grows on other bone it is known as "homoplastic osteoma"; when it grows on other tissue it is called "heteroplastic osteoma". ([From the Wikipedia article Osteolysis](#).)

Recent Publications on Osteolysis:



- [Long-term results of the ABG-1 hydroxyapatite coated total hip arthroplasty: Analysis of 111 cases with a minimum follow-up of 10 years.](#)
INTRODUCTION: Medium-term studies of ABG-1 cementless total hip... 21st November, 2009
Department of Orthopaedics and Traumatology, Caremeau Teaching Hospital- Orthop Traumatol Surg Res. 2009 Nov 16. ([DOI Direct Link](#))
- [Zoledronic acid protects against osteosarcoma-induced bone destruction but lacks efficacy against pulmonary metastases in a syngeneic rat model.](#)
Osteosarcoma (OS) is the most common primary malignant tumour of bone in... 20th November, 2009
Discipline of Orthopaedics and Trauma, University of Adelaide, The Royal- Int J Cancer. 2009 Nov 18. ([DOI Direct Link](#))
- [Therapeutic Potential of Adult Bone Marrow-Derived Mesenchymal Stem Cells in Prostate Cancer Bone Metastasis.](#)
PURPOSE: Current evidence indicates that an osteoblast lesion in prostate... 19th November, 2009
Authors' Affiliations: Departments of Pathology and Biomedical- Clin Cancer Res. 2009 Nov 17. ([DOI Direct Link](#))
- [Runx2 association with progression of prostate cancer in patients: mechanisms mediating bone osteolysis and osteoblastic metastatic lesions.](#)
Runx2, a bone-specific transcriptional regulator, is abnormally expressed... 17th November, 2009

- [1] The Cancer Center Prostate Cancer Discovery and Development Program,- Oncogene. 2009 Nov 16. ([DOI Direct Link](#))
- [\[Fracture of tibial stem in revision total knee arthroplasty.\]](#)
*An unusual case of implant failure after revision total knee arthroplasty...*17th November, 2009
Ortopedicka klinika LF UP a FN Olomouc.- Acta Chir Orthop Traumatol Cech. 2009 Oct;76(5):428-34.
 - [\[New Method for Quantification of UHMWPE Wear Particles around Joint Replacements.\]](#)
*PURPOSE OF THE STUDY The orthopaedic community has unanimously adopted the...*17th November, 2009
I. ortopedicka klinika 1. LF UK, Praha, FN Motol, Praha.- Acta Chir Orthop Traumatol Cech. 2009 Oct;76(5):374-81.
 - [\[Cervical spine osteolysis in a case of undifferentiated spondyloarthropathy with features mimicking neoplasm or infection.\]](#)
*STUDY DESIGN: Case Report. OBJECTIVE: To present a case of...*17th November, 2009
Department of Orthopedic Surgery, Chubu Rosai Hospital, Nagoya, Japan.- Spine (Phila Pa 1976). 2009 Nov 15;34(24):E901-5. ([DOI Direct Link](#))
 - [\[Functional outcome of PFC Sigma fixed and rotating-platform total knee arthroplasty. A prospective randomised controlled trial.\]](#)
*The aim of this study was to determine whether there is a difference in...*10th November, 2009
Department of Trauma & Orthopaedics, The James Cook University Hospital,- Int Orthop. 2009 Nov 8. ([DOI Direct Link](#))
 - [\[Inflammatory Response with Osteolysis Related to a Bioabsorbable Anchor in the Finger: a Case Report.\]](#)
*Soft tissue fixation of ligaments and tendons in the hand can be achieved...*10th November, 2009
Department of Orthopaedic Surgery, Columbia University Medical Center, 622- Hand (N Y). 2009 Nov 7. ([DOI Direct Link](#))
 - [\[Targeting extracellular signal-regulated kinase \(ERK\) signaling has therapeutic implications for inflammatory osteolysis.\]](#)
*The extracellular signal-regulated kinase 1/2 (ERK) pathway, part of the...*10th November, 2009
Department of Orthopaedic Surgery, Samsung Medical Center, Sungkyunkwan- Bone. 2009 Nov 4. ([DOI Direct Link](#))
 - [\[Functional Variants of the P2RX7 Gene, Aseptic Osteolysis and Revision of the Total Hip Arthroplasty: A Preliminary Study.\]](#)
*Periprosthetic osteolysis (OL) is a major long-term complication of the...*7th November, 2009
Laboratory of Immunogenomics and Immunoproteomics, Medical Faculty of- Hum Immunol. 2009 Nov 2. ([DOI Direct Link](#))
 - [\[Dangerous errors in the diagnosis and treatment of bony tuberculosis.\]](#)
*BACKGROUND: In rare diseases such as tuberculosis of bone, the diagnosis...*6th November, 2009
Klinik fur Integrative Onkologie, Nidda/Bad Salzhausen.- Dtsch Arztebl Int. 2009 Sep;106(36):573-7. Epub 2009 Sep 4. ([DOI Direct Link](#))
 - [\[Dysregulation of bone remodelling by imatinib mesylate.\]](#)
*Imatinib mesylate is a rationally designed tyrosine kinase inhibitor that...*6th November, 2009
Myeloma and Mesenchymal Research Laboratory, Division of Haematology,- Blood. 2009 Nov 4. ([DOI Direct Link](#))
 - [\[Delta Ceramic-on-Alumina Ceramic Articulation in Primary THA: Prospective, Randomized FDA-IDE Study and Retrieval Analysis.\]](#)
*Wear and osteolysis continue to be major reasons for revision surgery in...*4th November, 2009
Joint Implant Surgeons, Inc, 7277 Smith's Mill Road, Suite 200, New- Clin Orthop Relat Res. 2009 Nov 3. ([DOI Direct Link](#))
 - [\[Nanocrystalline hydroxyapatite for bone repair: an animal study.\]](#)
*Hydroxyapatite has become the most common material to replace bone or to...*4th November, 2009
Department of Orthopedics, University of Halle, Magdeburger Strasse 22,- J Mater Sci Mater Med. 2009 Nov 3. ([DOI Direct Link](#))



Osteolysis Patents:

- 7494979- [Method for treating congestive heart failure and other disorders](#)
- 7534246- [Ankle replacement system](#)
- 7534914- [Substituted methyl aryl or heteroaryl amide compounds](#)
- 7550209- [Diffusion-hardened medical implant](#)
- 7550461- [Benzofuran and benzothiophene compounds useful in treating cytokine mediated diseases](#)
- 7550502- [Substituted gamma lactams as therapeutic agents](#)
- 7553854- [6-O-substituted benzoxazole and benzothiazole compounds and methods of inhibiting CSF-1R signaling](#)
- 7553860- [Substituted gamma lactams as therapeutic agents](#)
- 7557190- [Optimized proteins that target Ep-CAM](#)
- 7560112- [Anti-il-6 antibodies, compositions, methods and uses](#)
- 7563918- [Solid and crystalline ibandronate sodium and processes for preparation thereof](#)
- 7531560- [Anti-cytokine heterocyclic compounds](#)
- 7528153- [Deoxynojirimycin analogues and their uses as glucosylceramidase inhibitors](#)
- 7527799- [ENA mineral bioactive solution, manufacturing method thereof and its application for the osteoporosis prevention](#)
- 7497876- [Prosthetic implant](#)
- 7504374- [Method for inducing deposition and maturation of bone comprising a co-therapeutic regimen of LMP-1 and BMP-2](#)
- 7507256- [Modular implant system and method with diaphyseal implant](#)
- 7510558- [System and method for joint resurface repair](#)
- 7511042- [Triazole compounds](#)
- 7511174- [Solid and crystalline ibandronic acid](#)
- 7514458- [Anti-cytokine heterocyclic compounds](#)
- 7517919- [Sequentially cross-linked polyethylene](#)
- 7521542- [Humanized Fc.gamma.RIIB-specific antibodies and methods of use thereof](#)
- 7524327- [Light activated gene transduction using long wavelength ultraviolet light for cell targeted gene delivery](#)
- 7569568- [Cytokine inhibitors](#)
- 7572594- [Screening assays for agonists or antagonists or receptor activator of NF-.kappa.B](#)
- 7598258- [Quinoline derivatives and quinazoline derivatives inhibiting autophosphorylation of macrophage colony stimulating factor receptor](#)
- 7598289- [Ketones and reduced ketones as therapeutic agents for the treatment of bone conditions](#)
- 7601341- [Vascular endothelial growth factor fusion constructs used to inhibit osteoclastogenesis](#)
- 7601839- [Pyrrolo-pyridine kinase modulators](#)
- 7604641- [System and method for joint resurface repair](#)
- 7604936- [Methods and compositions for diagnosis and monitoring auto immune and chronic inflammatory diseases](#)
- 7605148- [Aqueous oral solution of bisphosphonic acid](#)
- 7615075- [Plastic implant impregnated with a degradation protector](#)
- 7618451- [Patient selectable joint arthroplasty devices and surgical tools facilitating increased accuracy, speed and simplicity in performing total and partial joint arthroplasty](#)
- 7618462- [System and method for joint resurface repair](#)
- 7592422- [Modified plasminogen activator inhibitor type-1 and methods based thereon](#)

- 7592332- [Cytokine inhibitors](#)
- 7592010- [Albumin fusion proteins](#)
- 7572825- [Ketones and reduced ketones as therapeutic agents for the treatment of bone conditions](#)
- 7572872- [Biomimetic materials comprising polyhedral oligomeric silsesquioxanes](#)
- 7575602- [System and method for prosthetic fitting and balancing in joints](#)
- 7575603- [Fluted intramedullary stem](#)
- 7578850- [Unicondylar knee implant](#)
- 7579148- [Methods and compositions for diagnosing or monitoring autoimmune and chronic inflammatory diseases](#)
- 7579447- [Antibodies against LLG polypeptides of the triacylglycerol lipase family](#)
- 7582637- [Pyrrolo-pyridine kinase modulators](#)
- 7582658- [Bicyclic compound](#)
- 7585895- [Therapeutic substituted cyclopentanes](#)
- 7618630- [Methods of treating multiple myeloma and myeloma-induced bone resorption using integrin antagonists](#)

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Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

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