

List of Keywords

3D analysis	Arthroscopy	Bone biomechanics	Cartilage repair	Chromatin modifying enzymes
3-D bio-printing	Articular cartilage	Bone cells	Cartilage surgery	Classification
3-D cephalometry	Articular fractures	Bone cement	Cartilage tissue engineering	Clavicula
3D culture	Articular joint	Bone defects	CD73	Cleft lip and palate
3-D imaging	Aseptic loosening	Bone deformity	Cell and organ culture system	Clinical
Absorbable materials	Augmentation	Bone development	Cell based therapies	Clinical epidemiology
Acetabular fracture	Autograft	Bone filling material	Cell culture	clinical fracture care
Acetabulum	Autologous chondrocyte implantation	Bone fixation	Cell delivery	Clinical implantology
Anterior cruciate ligament	Autologous stem cell transplantation	Bone formation	Cell expansion and differentiation	Clinical studies
Adenovirus	Back pain	Bone grafts	Cell senescence	Clinical trials
Adipose stem cells	Bacteria adhesion	Bone healing	Cell signaling pathways	Coating
Adolescent idiopathic scoliosis	Bacterial infection	Bone histomorphometry	Cell stretching	Collagen
Adolescent spondylolisthesis	Bacterial infection	Bone infections	Cell-cell adhesion	Compartment syndrome
Adult deformity	Basic research	Bone innervation	Cell-matrix interactions	Complex Fractures
Adult stem cells	basic Fibroblast growth factor	Bone lengthening	Cell-mediated therapy	Compromised bone healing (by smoking, radiotherapy, osteoporosis...)
Advanced Neuromonitoring	Biochemistry	Bone loss	Cell-surface interaction	Computational biomechanics
Aesthetic surgery	biocompatibility	Bone metabolism	Cellular and molecular interaction	Computational stress analysis
Alcohol	Biocomposite	Bone morphogenic proteins	Cellular Biology	Computed tomography
Allografts	Biocorrosion	Bone perfusion	Cellular Diagnostics and Therapeutics	Computer assisted planning (CAP)
Alveolar bone graft	Bioengineering	Bone quality	Cellular differentiation	Computer assisted surgery (CAS)
Alveolar Cleft	Biofilm	Bone regeneration	Cellular engineering	Congenital anomalies
analysis of instability	Biomaterials	Bone tissue engineering	Cellular response to environmental stress	Connective tissue
Angiogenesis	Biomechanical testing	Bone tumor	Cements	Controlled release
Angular fractures,	Biomechanics	Bone viscoelasticity	Ceramics	Cranio-maxillo facial surgery
Angular stable nailing	Biomimetics	Bracing	Cerebral Edema	Craniomaxillofacial
Animal models	Bioprinting	Brain Tissue Oxygenation	Cervical	Critical size bone defects
Ankle	Bioreactors	BSEM, uCT	Cervical fractures	Cruciate ligament
Ankle fracture	Bioresorbable implants	Burns	Cervical myelopathy	Cytokine/growth factor
Ankle surgery	Bioresorbable materials	Cables, Cerclages, Periprosthetic	Cervical spine	Cytokines
Annulus fibrosus	Biostatistics	Cadaver studies	Cervical trauma	Damage control / Polytrauma
Antibiotic treatment (local and systemic)	Bisphosphonate-related osteonecrosis of the jaws	Calcaneum fracture	Chemistry	Decompressive
Antimicrobials	Bisphosphonates	Cancellous bone	Chemokines	hemicraniectomy
Apoptosis	Bisphosphonates	Cancer	Chest trauma	Deformity correction
Applied navigation	Bone	C-arm fluoroscopy	Chest wall resection/reconstruction	Degeneration
Artificial bone	Bone / Implant interface	Carpal injury	Child & adolescent	Degenerative diseases
Arthodesis	Bone adaptation	Cartilage	Chondrocyte	Degradable materials
Arthritis	Bone architecture	Cartilage biology	Chondrogenesis	Degradable metals
Arthroplasty	Bone augmentation	Cartilage defect		Delayed union
Arthroscopic assisted reduction of fractures	Bone bioengineering	Cartilage injury		
Arthroscopic surgery	Bone biology	Cartilage mechanics		
		Cartilage regeneration		

Delivery system	Epidemiology	Frontal sinus trauma	Implant design	Leukotriene Metabolism
Dental	Equine	Functional adaptation	Implant loosening	Ligaments
Dental pulp stem cells	Esthetic facial surgery	Gene expression	Implant osseointegration	Limb deformities
Developmental biology	Evidence based medicine	Gene regulation	Implant removal	Limb Regeneration
Diabetes	Experimental modelling	Gene silencing	Implant stability	Limb salvage
Diagnosis and imaging	Expert nail	Genetic engineering	Implants	Listhesis
Diaphysis	External fixation	Gene Therapy	In vitro	Liver
Dicckopf 1	Extra oral implants	Genetics	In vivo	Locked nailing
Differentiation	Extracellular matrix	Geriatric	In vivo tracking	Locking plate
Disaster, mediac coordinator of the dormant disaster hospital and course director of MRMI courses	Extracorporeal shock wave	Geriatric fractures	in vivo loading	Long bone
Discogenic pain	Extremity trauma	Glial cells	Induced pluripotent stem cells	Low back pain
Dislocations	Fabrication	Glycosaminoglycan	Infection	Low intensity pulsed ultrasound or therapeutic ultrasound
Distal extremities fractures - carpus, tarsus, digits	Face transplantation	Greyhounds	Infection Models	Lower extremity
Distal Femur Fracture	Facet joint mechanics	Growth factors	Infections	Lumbar
Distal radius	Facial deformity	Growth Plate	Inflammation	Macrophages
Distraction osteogenesis	Facial growth	Guided bone regeneration	Information technology	Magnetic resonance imaging and technology
Drug delivery and nanomedicine	Facial paralysis	Hand and wrist	Innate immunity	Malalignment
Dupuytren's disease	Facial reconstruction	Head & neck cancer	Instability	Malunion
DXA	Facial skin & soft tissue	Head & Neck reconstructive surgery	Interlocking nails	Management of multiple trauma
Dynamic loading	Facial tissue Regeneration	Head injuries	Internal fixation	Mandible
Dynamization	Facial trauma	Health care economics	Interspinous devices	Mandible morphometry and shape
Dysphagia	Fat embolus	Hemorrhage / Resuscitation	Intervertebral disc	Mandibular reconstruction
Education	Femoral Acetabular	Heparan sulphate	Intervertebral disc cells	Mandibular trauma
Elbow	Impingement/Hip Dysplasia	Heterotopic bone formation	Intervertebral disc Degeneration	Materials science
Electric and magnetic stimulation	Femoral nailing	HIF-1	Intracellular pathogen	Mathematics
Electrospinning	Femur and hip	High energy trauma	Intracranial Pressure	Matrix biology
Embolisation	Fibroblast	Hip and Pelvis	Intramedullary nailing	Matrix metalloproteinases
Embryonic stem cells	Fibronectin	Histology or histomorphometry	Intra-operative neuromonitoring	Mechanical adaptation
Emergency medicine	Finite Element Analysis	Host pathogen interactions	Ionic homeostasis	Mechanical analysis
Enabling technology	Fixation stability and tissue regeneration	HTO	Ischemia / Reperfusion	Mechanical engineering
Endochondral ossification	Fluid flow	Human	Joint	Mechanical forces
Endocrine orbitopathy	Fluorescence microscopy	Human Motion Analysis	Joint biomechanics	Mechanical Loading
Endoprosthesis	Foot & ankle	Humeral nailing	Joint fractures	Mechanical testing
Endoscopic assisted surgery	Foot & ankle surgery	Humeral shaft fracture	Joint modeling	Mechanobiology
Endoscopic spinal approaches	Foot & ankle trauma	Humerus	Joint replacement	Medical education
Endoscopic surgical instruments	Forearm and elbow surgery	Hydrogels	Joint surgery	Medical physics
Endothelial cell biology	Forearm fractures	Hypoxia	Kinematics	Medical software
Endothelial progenitor cells	Fracture healing	Ihh	Knee	Miscus
Enophthalmous repair	Fracture healing assessment	Iliac fixation	Knee revision	Mesenchymal stem cells
Enthesis	Fragility fractures	IM Fixation	Knee surgery	meta-analyses
	Free flap reconstruction	Imaging - microCT, DXA, pQCT, high resolution pQCT	Kyphoplasty	Metadherin, AEG-1
	Frontal and base of the skull	Immunohistochemistry	Large animal models	
	Frontal sinus reconstruction	Immunology	Large bone defects	
	Frontal sinus surgery		Lentivirus	
			Less invasive spine surgery	

<p>Metal & biodegradable implant materials</p> <p>Metal implants</p> <p>Metastasis</p> <p>Methodology</p> <p>Microarray analysis</p> <p>Microbiology</p> <p>microcirculation</p> <p>Micro-computed tomography</p> <p>microRNA</p> <p>Microsurgery</p> <p>Mineralization</p> <p>Minimally invasive surgery</p> <p>Mircovascular free bone tissue transfer</p> <p>Mircroarray analysis</p> <p>Modeling</p> <p>Molecular biology</p> <p>Monocyte</p> <p>Motion Analysis/ Gait</p> <p>Mouse genetics</p> <p>Mouse knockout models</p> <p>Mouse models</p> <p>Muscle</p> <p>Myelin disorders</p> <p>Nailing</p> <p>Nanobiotechnology</p> <p>Nasal</p> <p>Nasoethmoidal repair</p> <p>Naso-orbito-ethmoid trauma/reconstruction</p> <p>Navigation</p> <p>Nerve injury</p> <p>Nerve regeneration</p> <p>Neuroanatomy</p> <p>Neurobiology/Neuroscience</p> <p>Neurocritical Care</p> <p>Neuromuscular</p> <p>Neuromuscular scoliosis</p> <p>Neuromuscular spine deformity</p> <p>Neuronavigation</p> <p>Neuroscience</p> <p>Neurosurgery</p> <p>Neurotrauma</p> <p>Neutrophil</p>	<p>Nonunions</p> <p>Notch signaling</p> <p>Notochordal cells</p> <p>Nuclear replacement strategies</p> <p>Nucleus Pulposus</p> <p>Nutrition</p> <p>Obstructive Sleep Apnea Syndrom</p> <p>Occupational back pain</p> <p>Open fracture and related healing</p> <p>Operation planning</p> <p>Oral oncology</p> <p>Oral pathology</p> <p>Orbit</p> <p>Orbital</p> <p>Orbital reconstruction</p> <p>Orbital trauma</p> <p>Organ culture</p> <p>Orthobiologics</p> <p>Orthognatic Surgery and imaging</p> <p>Orthopaedic medical devices</p> <p>Orthopaedic trauma</p> <p>Orthopaedics</p> <p>Osseointegration</p> <p>Osteoarthritis</p> <p>Osteoblast biology</p> <p>Osteochondral graft</p> <p>Osteochondral tissue engineering</p> <p>Osteoclasts</p> <p>Osteoconduction</p> <p>Osteocytes</p> <p>Osteogenesis</p> <p>Osteogenic differentiation</p> <p>Osteomyelitis</p> <p>Osteonecrosis</p> <p>Osteoporosis</p> <p>Osteoporotic fracture</p> <p>Outcome measures</p> <p>Oxidative stress and cellular ageing</p> <p>Pain</p> <p>Parathyroid hormone action</p>	<p>Patella Fracture</p> <p>Patient specific implants</p> <p>Pediatric fractures</p> <p>Pediatric Orthopedics</p> <p>Pediatric plastic surgery</p> <p>Pediatric Trauma</p> <p>Pedicle screws</p> <p>PEEK</p> <p>Pelvis and acetabulum</p> <p>Pelvis fracture</p> <p>Peptides</p> <p>Percutaneous instrumentation</p> <p>Periarticular</p> <p>Peri-implantitis</p> <p>Periosteal distraction</p> <p>Periosteum signaling</p> <p>Peripheral nerve regeneration</p> <p>Peripheral nerve tissue engineering</p> <p>Periprosthetic fractures</p> <p>Pharmaceuticals</p> <p>Photobiology</p> <p>Photochemical crosslinking</p> <p>Photochemistry</p> <p>Physical loading</p> <p>Physiology</p> <p>Pilon fractures</p> <p>Plastic surgery</p> <p>Plastics</p> <p>Plate</p> <p>Plateau fractures</p> <p>PMMA</p> <p>Poly lactide membranes</p> <p>Polymers</p> <p>Polytrauma</p> <p>Positron emission Tomography</p> <p>Post trauma reconstructive surgery</p> <p>Post-traumatic arthritis</p> <p>Posttraumatic complications</p> <p>Posttraumatic Deformities</p> <p>Posttraumatic inflammation</p> <p>Preclinical</p> <p>proprioception</p> <p>Prosimal humerus</p>	<p>Prostaglandins/COX-2</p> <p>Prosthesis</p> <p>Prosthodontics</p> <p>Protein adsorption</p> <p>Protein expression</p> <p>Proteinase</p> <p>Proteoglycan</p> <p>Proximal humerus</p> <p>Pseudoarthrosis</p> <p>Public health</p> <p>Pulsed electromagnetic fields</p> <p>QCT</p> <p>Quality of life</p> <p>Quality of life (QoL) and posttraumatic growth (PTG) research</p> <p>Quantitative resonance imaging</p> <p>Radiation injury to bone</p> <p>Radiation therapy</p> <p>Radiculopathy</p> <p>Radiculopathy</p> <p>Radiostereometry</p> <p>Radiotherapy</p> <p>Radius</p> <p>Rapid prototyping</p> <p>Rat</p> <p>RDG, integrin</p> <p>Real-time tracking</p> <p>Reconstructive Surgery</p> <p>Reduction techniques</p> <p>Regeneration</p> <p>Regenerative medicine</p> <p>Regulatory (pre-/non clinical)</p> <p>Rehabilitation and Physical Therapy</p> <p>Remodeling</p> <p>Repair</p> <p>Replacement</p> <p>Reverse nailing</p> <p>Rheumatology</p> <p>RIA (Reamer Irrigator Aspirator)</p> <p>Rib</p> <p>Rib and sternal fixation in rib fractures and pseudoarthrosis</p> <p>Rib fracture</p>	<p>Rib plating</p> <p>Rigid fixation</p> <p>RNA interference</p> <p>Robotics</p> <p>Protein expression</p> <p>Satellite cells</p> <p>Scaffolds</p> <p>Scaphoid</p> <p>Scapula</p> <p>Scheuermanns kyphosis</p> <p>Schwann cells</p> <p>Sciatic nerve</p> <p>QCT</p> <p>Sciatica</p> <p>Sclerostin</p> <p>Scoliosis</p> <p>Scope & Sports Medicine</p> <p>Segmentation</p> <p>Self-inductive scaffold</p> <p>Sensor integration</p> <p>Sepsis</p> <p>Shape analysis</p> <p>Sheep</p> <p>Shock</p> <p>Shoulder</p> <p>Shoulder arthroplasty</p> <p>Shoulder biomechanics</p> <p>Shoulder fractures</p> <p>Shoulder instability</p> <p>Shoulder Surgery</p> <p>Shoulder trauma</p> <p>Signal transduction</p> <p>Silica</p> <p>Simulation</p> <p>Skeletal development</p> <p>Skeletal metastases</p> <p>Skull reconstruction</p> <p>Small animal models</p> <p>Small molecule drugs</p> <p>Soft tissue</p> <p>Soft tissue reconstruction</p> <p>Soft tissue trauma</p> <p>Spinal cord regeneration</p> <p>Spinal deformity</p> <p>Spinal devices</p> <p>Spinal fracture</p> <p>Spinal fusion</p>
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<p>Spinal stenosis Spinal trauma Spinal tumor Spine Spine biomechanics Spine degeneration Spondylolisthesis Sport medicine Squamous cell carcinoma Staphylococcal aureus Staphylococcus physiology Statins Statistics Stem cell biology Stem cell therapy Stereotactic navigation Sternal closure Sternal fixation Sternal reconstruction Sternum Stress fractures Stroma Structure-function Subchondral bone Subchondral cysts Surface characteristics Surface chemistry Surface coating Surface energy Surface modification Surgery Surgical alternatives to bone graft Surgical approaches Surgical decision making Synovium Systematic review talus Temporomandibular joint Tenascin-C Tendon Tendon regeneration Tendon stem/progenitor cells Thoracic surgery Thorax</p>	<p>Tibia Tibia fracture Tibia Plateau Fracture Tissue engineering Tissue reaction Titanium TMJ ankylosis Tooth development Total disc replacement Total elbow arthroplasty Total hip arthroplasty Total joint replacement TPLO Trabecular bone Transforming growth factor, TGF-β Transcription factors Transgenic animal models Transient response Transmembrane signaling Transplantation Trauma Traumatic brain injury Tribology Ulna Ultrasound Upper extremity Vascularization VEGF Vertebra Veterinary orthopedics Viral vectors Virtual reconstructions Viscoelasticity War surgery Wear Whiplash Whole body vibration Wireless sensing wnt signaling Wound healing Wrist Zygoma</p>			
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