

CONTENTS

A. Aquili, L. Farinelli, C. Bottegoni, L. Antonicelli and A. Gigante. The effect of anti-IgE therapy in knee osteoarthritis: a pilot observational study	1
E. Bonicoli, N. Piolanti, M. Giuntoli, S. Polloni, G. Ciapini, P.D. Parchi and M. Scaglione. Clinical and radiographic short mid-term outcomes of primary total stabilizer knee arthroplasty	7
C. Carulli, M. Zago, A.R. Rizzo and M. Innocenti. Reconstructive techniques for revision and limb salvage surgery in patients with haemophilia	15
G. Colaianni, A. Notarnicola, L. Sanesi, G. Brunetti, L. Lippo, M. Celi, L. Moretti, V. Pesce, G. Vicenti, B. Moretti, S. Colucci and M. Grano. Irisin levels correlate with bone mineral density in soccer players	21
A. Corigliano, M. Preianò, R. Terracciano, R. Savino, M. De Gori, O. Galasso and G. Gasparini. C3f is a potential tool for the staging of osteoarthritis	29
S. D'Adamio, G. Cazzato, A. Ziranu A. Sgambato, M.A. Rosa and G. Maccauro. Soft tissue adhesion patterns over Trevira tube on modular endoprosthesis for malignant bone tumours: an <i>in vitro</i> study	37
M. De Gori, A. D'Arienzo, L. Andreani, G. Beltrami, D.A. Campanacci, P. De Biase, F. Frenos, S. Giannotti, F. Sacchetti, F. Totti, P. Parchi and R. Capanna. Complications and survival of megaprotheses after resection of bone metastases	43
V. De Santis, A. Burrofato, R. D'Apolito, C. De Ieso, N. Magarelli, G. Maccauro and A. Ziranu. Evaluation of accuracy of bone cuts and implant positioning in total knee arthroplasty using patient specific instrumentation	51
A. Di Giancamillo, D. Deponti, M.T. Raimondi, F. Boschetti, F. Gervaso, S. Modina, L. Mangiavini and G.M. Peretti. Comparison between different cell sources and culture strategies for tendon tissue engineering	61
A. Di Giancamillo, D. Deponti, F. Gervaso, L. Salvatore, F. Scalera, L. Mangiavini, R. Scurati, A. Sannino and G.M. Peretti. The analysis of different scaffolds and the benefit of fibrin glue for tendon tissue engineering at different culture times	67
C. Faldini, F. Perna, A. Mazzotti, N. Stefanini, A. Panciera, G. Geraci, P. Mora and F. Traina. Direct anterior approach versus posterolateral approach in total hip arthroplasty: effects on early post-operative rehabilitation period	75
C. Faldini, A. Mazzotti, F. Perna, N. Stefanini, A. Panciera, F. Pilla, A. Ruffilli, E.M. Neonakis and F. Traina. Modified minimally invasive direct anterior approach through a bikini incision for total hip arthroplasty: technique and results in young female patients	83
C. Faldini, F. Perna, R. Borghi, M. Chehrassan, N. Stefanini, A. Ruffilli, A. Mazzotti, K. Martikos and F. Traina. Direct vertebral rotation and differently shaped dual rod translation technique in adolescent idiopathic scoliosis	91
M. Franzini, A. Nesti, D. Panetta, V. Fierabracci, S. Marchetti, P.D. Parchi, L. Caponi, A. Paolicchi, V. Musetti, P. Salvadori, M. Edmin, A. Pucci, E. Bonicoli, M. Scaglione and N. Piolanti. Correlation between gamma glutamyltransferase fractions and bone quality	97
S. Giannotti, P.D. Parchi, G.B. Colasanti, G. Agostini, F. Moreschini, C. Cataldi, P. Ferrata and R. Capanna. Use of autologous bone marrow cells concentrate enriched with platelet-fibrin on extensor mechanism allograft reconstruction for extensor mechanism failure following total knee arthroplasty ...	107
A.G. Marmotti, G.M. Peretti, S. Mattia, L. Mangiavini, D.E. Bonasia, F. Dettoni, E. Bellato, S. Schwenbacher and F. Castoldi. One-step cartilage repair with minced chondral fragment on a composite scaffold: an <i>in vitro</i> human study at low oxygen tension	113
M. Mordà, S. Pini, F. Celli, F. Casella, P. Parchi, N. Piolanti, S. Marchetti and M. Scaglione. Bone cement implantation syndrome: a thromboelastographic study of the effect of bone cement on coagulation	121
G.M. Peretti, I. Tessaro, L. Montanari, U. Polito, A. Di Giancamillo, M. Di Giancamillo, A. Marmotti, A. Montaruli, E. Roveda and L. Mangiavini. Histological changes of the meniscus following an osteochondral lesion	129
F. Verdoni, R.D. D'Amato, L. Mangiavini, M.D. Lombardo and G.M. Peretti. The treatment of low-grade septic non-unions	135
G. Vicenti, G. Solarino, V. Pesce, L. Moretti, A. Notarnicola, M. Carrozzo, F. Rifino and B. Moretti. Autologous lipotransfer versus stromal vascular fraction enriched lipoinjection for diabetic foot wound healing: a pilot study	141
D. Fenga, G. Vermiglio, F. Traina, A. Favaloro and M.A. Rosa. Scanning electron, 3D-confocal and stereotactic microscopies morpho-structural analysis of antibiotic-loaded cement porosity in three different formulations	147
G. Vadalà, S. Petrillo, F. Buschini, R. Papalia and V. Denaro. Posterolateral bundle reconstruction of the anterior cruciate ligament to restore rotational stability of the knee	153
G. Vadalà, D. Accoto, F. Russo, I. Portaccio, M. Rossini, S. Valentini, R. Papalia and V. Denaro. A new surgical positioning system for minimally invasive spine surgery and transpedicular approach to the disc	159
G. Barbanti Bròdano, C. Griffoni, A. Nataloni, M. Manfrini, G. Giavaresi, S. Bandiera, A. Gasbarrini, S. Terzi, R. Ghermandi, G. Tedesco, M. Girolami, M. Tognon and M. Fini. Biomaterials as bone graft substitutes for spine surgery: from preclinical results to clinical study	167
G. Vadalà, G. Di Pino, L. Ambrosio, L. Diaz Balzani and V. Denaro. Targeted muscle reinnervation for improved control of myoelectric upper limb prostheses	183