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## 1. Journaux / Revues

### 1.1. Articles scientifiques

#### 1.1.1. Thématique 1: Engineered Bone

#### Peer-reviewed journals / Research

2012

1. **Becquart, Pierre**; Cambon-Binder, Adeline; Monfoulet, Laurent-Emmanuel; Bourguignon, Marianne; Vandamme, Katleen; Bensidhoum, Morad; Petite, Herve; **Logeart-Avramoglou, Delphine**; *Ischemia Is the Prime but Not the Only Cause of Human Multipotent Stromal Cell Death in Tissue-Engineered Constructs In Vivo*; Tissue Engineering Part A Volume: 18 Issue: 19-20 Pages: 2084-2094 DOI: 10.1089/ten.tea.2011.0690 Published: 2012; FI 3,892; 4 - **Excellent**
2. **Ferreira, Elisabeth**; Potier, Esther; Vaudin, Pascal; **Oudina, Karim**; **Bensidhoum, Morad**; **Logeart-Avramoglou, Delphine**; Mir, Lluís M.; **Petite, Herve**; *Sustained and promoter dependent bone morphogenetic protein expression by rat mesenchymal stem cells after BMP-2 transgene electrotransfer*; European Cells & Materials Volume: 24 Pages: 18-28 Published: 2012; FI 3,654; 4 - **Excellent**
3. **Mathieu, Vincent**; Vayron, Romain; Barthel, Etienne; Dalmas, Davy; **Soffer, Emmanuel**; **Anagnostou, Fani**; Haiat, Guillaume; *Mode III cleavage of a coin-shaped titanium implant in bone: Effect of friction and crack propagation*; Journal of the Mechanical Behavior of Biomedical Materials Volume: 8 Pages: 194-203 DOI: 10.1016/j.jmbbm.2011.12.012 Published: 2012; FI 2,876; 4 - **Excellent**
4. **Mathieu, Vincent**; **Vayron, Romain**; **Soffer, Emmanuel**; **Anagnostou, Fani**; Haiat, Guillaume; *Influence of healing time on the ultrasonic response of the bone-implant interface*; Ultrasound in Medicine and Biology Volume: 38 Issue: 4 Pages: 611-618 DOI: 10.1016/j.ultrasmedbio.2011.12.014 Published: 2012; FI 2,298; 5 - **Outstanding**

2013

5. Alcheikh, A.; Pavon-Djavid, G.; Helary, G.; **Petite, Herve**; Migonney, Veronique; **Anagnostou, Fani**; *PolyNaSS grafting on titanium surfaces enhances osteoblast differentiation and inhibits Staphylococcus aureus adhesion*; Journal of Materials Science-Materials in Medicine Volume: 24 Issue: 7 Pages: 1745-1754 DOI: 10.1007/s10856-013-4932-3 Published: 2013; FI 2,272; 3 - **Honorable**
6. **Deschepper, Mickael**; **Manassero, Mathieu**; **Oudina, Karim**; **Paquet, Joseph**; **Monfoulet, Laurent-Emmanuel**; **Bensidhoum, Morad**; **Logeart-Avramoglou, Delphine**; **Petite, Herve**; *Proangiogenic and Prosurvival Functions of Glucose in Human Mesenchymal Stem Cells Upon Transplantation*; Stem Cells Volume: 31 Issue: 3 Pages: 526-535 DOI: 10.1002/stem.1299 Published: 2013; FI 5,902; 5 - **Outstanding**
7. **Manassero, Mathieu**; **Viateau, Veronique**; **Deschepper, Mickael**; **Oudina, Karim**; **Logeart-Avramoglou, Delphine**; **Petite, Herve**; **Bensidhoum, Morad**; *Bone Regeneration in Sheep Using Acropora Coral, a Natural Resorbable Scaffold, and Autologous Mesenchymal Stem Cells*; Tissue Engineering Part A Volume: 19 Issue: 13-14 Pages: 1554-1563 DOI: 10.1089/ten.tea.2012.0008 Published: 2013; FI 3,892; 4 - **Excellent**
8. **Manassero, Mathieu**; **Viateau, Veronique**; Matthys, Romano; **Deschepper, Mickael**; Vallefucio, Rosario; **Bensidhoum, Morad**; **Petite, Herve**; *A Novel Murine Femoral Segmental Critical-Sized Defect Model Stabilized by Plate Osteosynthesis for Bone Tissue Engineering Purposes*; Tissue Engineering Part C-Methods Volume: 19 Issue: 4 Pages: 271-280 DOI: 10.1089/ten.tec.2012.0256 Published: 2013; FI 3,892; 4 - **Excellent**
9. Guillot, Raphael; Gilde, Flora; **Becquart, Pierre**; **Sailhan, Frederic**; Lapeyrere, Aurelien; **Logeart-Avramoglou, Delphine**\*; **Picart, Catherine**\*; *The stability of BMP loaded polyelectrolyte multilayer coatings on titanium*; Biomaterials Volume: 34 Issue: 23 Pages: 5737-5746 DOI: 10.1016/j.biomaterials.2013.03.067 Published: 2013; FI 8,387; \* co-last authors 5 - **Outstanding**

2014

10. **Chakar, Carole**; **Naaman, Nada**; **Soffer, Emmanuel**; **Cohen, Nicolas**; El Osta, Nada; **Petite, Herve**; **Anagnostou, Fani**; *Bone formation with deproteinized bovine bone mineral or biphasic calcium phosphate in the presence of autologous platelet lysate: comparative investigation in rabbit.*; International Journal of Biomaterials Volume: 2014 Pages: 367265 DOI: 10.1155/2014/367265 Published: 2014; Sans FI; 0 - **No notoriety**
11. **Monfoulet, Laurent-Emmanuel**; **Becquart, Pierre**; Marchat, David; Vandamme, Katleen; Bourguignon, Marianne; Pacard, Elodie; **Viateau, Veronique**; **Petite, Herve**; **Logeart-Avramoglou, Delphine**; *The pH in the Microenvironment of Human Mesenchymal Stem Cells Is a Critical Factor for Optimal Osteogenesis in Tissue-Engineered Constructs*; Tissue Engineering Part A Volume: 20 Issue: 13-14 Pages: 1827-1840 DOI: 10.1089/ten.tea.2013.0500 Published: 2014; FI 3,892; 4 - **Excellent**

12. **Potier, Esther**; De Vries, Stefan A. H.; Van Doeselaar, Marina; Ito, Keita; *Potential application of notochordal cells for intervertebral disc regeneration: an in vitro assessment*; European Cells & Materials Volume: 28 Pages: 68-81 Published: 2014; FI 3,654; 4 - **Excellent**<sup>1</sup>

## 2015

13. Boudenot, Arnaud; Achiou, Zahra; **Portier, Hugues**; *Does running strengthen bone?*; Applied Physiology Nutrition and Metabolism Volume: 40 Issue: 12 Pages: 1309-1312 DOI: 10.1139/apnm-2015-0265 Published: 2015; FI 1,910; 3 - **Honorable**<sup>1</sup>
14. Chakar, Carole; **Soffer, Emmanuel**; **Cohen, Nicolas**; **Petite, Herve**; **Naaman, Nada**; **Anagnostou, Fani**; Vertical bone regeneration with deproteinised bovine bone mineral or biphasic calcium phosphate in the rabbit calvarium: effect of autologous platelet lysate; Journal of Materials Science-Materials in Medicine Volume: 26 Issue: 1 Article Number: UNSP 23 DOI: 10.1007/s10856-014-5339-5 Published: 2015; FI 2,272; 3 - **Honorable**
15. **Paquet, Joseph**; **Deschepper, Mickael**; **Moya, Adrien**; **Logeart-Avramoglou, Delphine**; **Boisson-Vidal, Catherine**; **Petite, Herve**; *Oxygen Tension Regulates Human Mesenchymal Stem Cell Paracrine Functions*; Stem Cells Translational Medicine Volume: 4 Issue: 7 Pages: 809-821 DOI: 10.5966/sctm.2014-0180 Published: 2015; FI 4,247; 4 - **Excellent**

## 2016

16. **Becquart, Pierre**; Cruel, Magali; Hoc, Thierry; **Sudre, Laure**; Pernelle, K.; Bizios, R.; **Logeart-Avramoglou, Delphine**; **Petite, Herve**; **Bensidhoum, Morad**; *Human mesenchymal stem cell responses to hydrostatic pressure and shear stress*; European Cells & Materials Volume: 31 Pages: 160-173 DOI: 10.22203/eCM.v031a11 Published: 2016; FI 3,654; 4 - **Excellent**
17. **Manassero, Mathieu**; **Decambron, Adeline**; **Huu Thong, Bui Truong**; **Viateau, Veronique**; **Bensidhoum, Morad**; **Petite, Herve**; *Establishment of a Segmental Femoral Critical-size Defect Model in Mice Stabilized by Plate Osteosynthesis.*; JoVE - Journal of Visualized Experiments Issue: 116 DOI: 10.3791/52940 Published: 2016; FI 1,113; 3 - **Honorable**
18. **Manassero, Mathieu**; **Paquet, Joseph**; **Deschepper, Mickael**; **Viateau, Veronique**; Retortillo, Jose; **Bensidhoum, Morad**; **Logeart-Avramoglou, Delphine**; **Petite, Herve**; *Comparison of Survival and Osteogenic Ability of Human Mesenchymal Stem Cells in Orthotopic and Ectopic Sites in Mice*; Tissue Engineering Part A Volume: 22 Issue: 5-6 Pages: 534-544 DOI: 10.1089/ten.tea.2015.0346 Published: 2016; FI 3,892; 4 - **Excellent**
19. **Viateau, Veronique**; **Manassero, Mathieu**; Sensebe, Luc; Langonne, Alain; Marchat, David; **Logeart-Avramoglou, Delphine**; **Petite, Herve**; **Bensidhoum, Morad**; *Comparative study of the osteogenic ability of four different ceramic constructs in an ectopic large animal model*; Journal of Tissue Engineering and Regenerative Medicine Volume: 10 Issue: 3 Pages: E177-E187 DOI: 10.1002/term.1782 Published: 2016; FI 4,710; 5 - **Outstanding**

## 2017

20. **Moya, Adrien**; **Larochette, Nathanael**; **Paquet, Joseph**; **Deschepper, Mickael**; **Bensidhoum, Morad**; Izzo, Valentina; Kroemer, Guido; **Petite, Herve**; **Logeart-Avramoglou, Delphine**; *Quiescence Preconditioned Human Multipotent Stromal Cells Adopt a Metabolic Profile Favorable for Enhanced Survival under Ischemia*; Stem Cells Volume: 35 Issue: 1 Pages: 181-196 DOI: 10.1002/stem.2493 Published: 2017; FI 5,902; 5 - **Outstanding**
21. **Ribot, Jonathan**; **Caliaperoumal, Guavri**; **Paquet, Joseph**; **Boisson-Vidal, Catherine**; **Petite, Herve**; **Anagnostou, Fani**; *Type 2 diabetes alters mesenchymal stem cell secretome composition and angiogenic properties*; Journal of Cellular and Molecular Medicine Volume: 21 Issue: 2 Pages: 349-363 DOI: 10.1111/jcmm.12969 Published: 2017; FI 4,938; 4 - **Excellent**
22. **Decambron A**, Fournet A, **Bensidhoum M**, **Manassero M**, **Sailhan F**, **Petite H**, **Logeart-Avramoglou D**, **Viateau V**. *Low-dose BMP-2 and MSC dual delivery onto coral scaffold for critical-size bone defect regeneration in sheep*. Journal of Orthopaedic Research. Apr 12. doi: 10.1002/jor.23577. [Epub ahead of print]. Published: 2017 FI 2,807; 4 - **Excellent**
23. **Decambron A**, **Manassero M**, **Bensidhoum M**, **Lecuelle B**, **Logeart-Avramoglou D**, **Petite H**, **Viateau V**. *A comparative study of tissue-engineered constructs from Acropora and Porites coral in a large animal bone defect model*. Bone Joint Res. Apr;6(4):208-215. doi: 10.1302/2046-3758.64.BJR-2016-0236.R1. Published: 2017 FI 2,597; 3 - **Honorable**
24. **Martinod, Emmanuel**; **Paquet, Joseph**; **Dutau, Herve**; **Radu, Dana M**; **Bensidhoum, Morad**; **Abad, Sebastien**; **Uzunhan, Yurdagul**; **Vicaut, Eric**; **Petite, Herve**; *In Vivo Tissue Engineering of Human Airways.*; Annals of Thoracic Surgery Volume: 103 Issue: 5 Pages: 1631-1640 DOI: 10.1016/j.athoracsur.2016.11.027 Published: 2017; FI 2,975; 4 - **Excellent**

<sup>1</sup> Publications de chercheurs intégrés lors de la période 2012-2017, correspondant à des travaux effectués dans leurs précédents laboratoire mais dont l'écriture a été fait après leur intégration au B2OA.

25. Moya A., Larochette, N, Bourguignon M, El-Hafci H, Potier E, Petite H, Logeart-Avramoglou D: Osteogenic potential of adipogenic pre-differentiated human bone-marrow-derived multipotent stromal cells for bone tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*. Accepted 2017 **Excellent**

Peer-reviewed journals / Collaborative work of the team / Research

2012

26. Berot, Maxime; Auregan, Jean-Charles; Imbert, Laurianne; Magoariac, Helene; Budyn, Elisa; Zadegan, Frederic; Hannouche, Didier; Bensidhoum, Morad; Hoc, Thierry; *Mechanics of osteoporotic trabecular bone*; *Mechanics & Industry* Volume: 13 Issue: 6 Pages: 373-380 DOI: 10.1051/meca/2012023 Published: 2012; FI 0,559; 1 - **Average**
27. Nguyen, Yann; Miroir, Mathieu; Kazmitcheff, Guillaume; Sutter, Jasmine; Bensidhoum, Morad; Ferrary, Evelyne; Sterkers, Olivier; Grayeli, Alexis Bozorg; *Cochlear Implant Insertion Forces in Microdissected Human Cochlea to Evaluate a Prototype Array*; *Audiology and Neuro-Otology* Volume: 17 Issue: 5 Pages: 290-298 DOI: 10.1159/000338406 Published: 2012; FI 1,776; 3 - **Honorable**
28. Gilde, Flora; Maniti, Ofelia; Guillot, Raphael; Mano, Joao F.; Logeart-Avramoglou, Delphine; Sailhan, Frederic; Picart, Catherine; *Secondary Structure of rhBMP-2 in a Protective Biopolymeric Carrier Material*; *Biomacromolecules* Volume: 13 Issue: 11 Pages: 3620-3626 DOI: 10.1021/bm3010808 Published: 2012; FI 5,583; 5 - **Outstanding**
29. Vayron, Romain; Barthel, Etienne; Mathieu, Vincent; Soffer, Emmanuel; Anagnostou, Fani; Haiat, Guillaume; *Nanoindentation Measurements of Biomechanical Properties in Mature and Newly Formed Bone Tissue Surrounding an Implant*; *Journal of Biomechanical Engineering-Transactions of the ASME* Volume: 134 Issue: 2 Article Number: 021007 DOI: 10.1115/1.4005981 Published: 2012; FI 1,747; 2 - **Acceptable**

2013

30. Saclier, Marielle; Yacoub-Youssef, Houda; Mackey, Abigail L.; Arnold, Ludovic; Ardjoune, Hamida; Magnan, Melanie; Sailhan, Frederic; Chelly, Jamel; Pavlath, Grace K.; Mounier, Remi; Kjaer, Michael; Chazaud, Benedicte; *Differentially Activated Macrophages Orchestrate Myogenic Precursor Cell Fate During Human Skeletal Muscle Regeneration*; *Stem Cells* Volume: 31 Issue: 2 Pages: 384-396 DOI: 10.1002/stem.1288 Published: 2013; FI 5,902; 5 - **Outstanding**
31. Fouillard L, Francois S, Bouchet S, Bensidhoum M, Elm'selmi A, Chapel A. Innovative cell therapy in the treatment of serious adverse events related to both chemo-radiotherapy protocol and acute myeloid leukemia syndrome: the infusion of mesenchymal stem cells post-treatment reduces hematopoietic toxicity and promotes hematopoietic reconstitution. *Curr Pharm Biotechnol*. 14(9):842-8. FI 2,459; Published: 2013; 3 - **Honorable**
32. Chaudhari, Amol; Duyck, Joke; Braem, Annabel; Vleugels, Jozef; Petite, Herve; Logeart-Avramoglou, Delphine; Naert, Ignace; Martens, Johan A.; Vandamme, Katleen; *Modified Titanium Surface-Mediated Effects on Human Bone Marrow Stromal Cell Response*; *Materials* Volume: 6 Issue: 12 Pages: 5533-5548 DOI: 10.3390/ma6125533 Published: 2013; FI 2,728; 4 - **Excellent**
33. De Peppo, Giuseppe Maria; Sladkova, Martina; Sjoval, Peter; Palmquist, Anders; Oudina, Karim; Hyllner, Johan; Thomsen, Peter; Petite, Herve; Karlsson, Camilla; *Human Embryonic Stem Cell-Derived Mesodermal Progenitors Display Substantially Increased Tissue Formation Compared to Human Mesenchymal Stem Cells Under Dynamic Culture Conditions in a Packed Bed/Column Bioreactor*; *Tissue Engineering Part A* Volume: 19 Issue: 1-2 Pages: 175-187 DOI: 10.1089/ten.tea.2011.0412 Published: 2013; FI 3,892; 4 - **Excellent**
34. Zwingenberger, Stefan; Yao, Zhenyu; Jacobi, Angela; Vater, Corina; Valladares, Roberto D.; Li, Chenguang; Nich, Christophe; Rao, Allison J.; Christman, Jane E.; Antonios, Joseph K.; Gibon, Emmanuel; Schambach, Axel; Matzig, Tobias; Gunther, Klaus-Peter; Goodman, Stuart B.; Stiehler, Maik; *Stem cell attraction via SDF-1 expressing fat tissue grafts*; *Journal of Biomedical Materials Research Part A* Volume: 101 Issue: 7 Pages: 2067-2074 DOI: 10.1002/jbm.a.34512 Published: 2013; FI 3,263; 4 - **Excellent**

2014

35. Khaddam, Mayssam; Huet, Eric; Vallee, Benoit; Bensidhoum, Morad; Le Denmat, Dominique; Filatova, Anna; Jimenez-Rojo, Lucia; Ribes, Sandy; Lorenz, Georg; Morawietz, Maria; Rochefort, Gael Y.; Kiesow, Andreas; Mitsiadis, Thimios A.; Poliard, Anne; Petzold, Matthias; Gabison, Eric E.; Menashi, Suzanne; Chaussain, Catherine; *EMMPRIN/CD147 deficiency disturbs ameloblast-odontoblast cross-talk and delays enamel mineralization*; *Bone* Volume: 66 Pages: 256-266 DOI: 10.1016/j.bone.2014.06.019 Published: 2014; FI 3,736; 3 - **Honorable**
36. Nassif, Ali; Senussi, Ibtisam; Meary, Fleur; Loiodice, Sophia; Hotton, Dominique; Robert, Benoit; Bensidhoum, Morad; Berdal, Ariane; Babajko, Sylvie; *Mx1 role in craniofacial bone morphogenesis*; *Bone* Volume: 66 Pages: 96-104 DOI: 10.1016/j.bone.2014.06.003 Published: 2014; FI 3,736; 3 - **Honorable**

37. Vayron, Romain; **Soffer, Emmanuel; Anagnostou, Fani**; Haiat, Guillaume; *Ultrasonic evaluation of dental implant osseointegration*; Journal of Biomechanics Volume: 47 Issue: 14 Pages: 3562-3568 DOI: 10.1016/j.jbiomech.2014.07.011 Published: 2014; FI 2,664; **3 - Honorable**
38. Zwingenberger, Stefan; Yao, Zhenyu; Jacobi, Angela; Vater, Corina; Valladares, Roberto D.; Li, Chenguang; **Nich, Christophe**; Rao, Allison J.; Christman, Jane E.; Antonios, Joseph K.; **Gibon, Emmanuel**; Schambach, Axel; Maetzig, Tobias; Goodman, Stuart B.; Stiehler, Maik; *Enhancement of BMP-2 Induced Bone Regeneration by SDF-1 alpha Mediated Stem Cell Recruitment*; Tissue Engineering Part A Volume: 20 Issue: 3-4 Pages: 810-818 Published: 2014; FI 3,892; **4 - Excellent**

## 2015

39. Lescale, Chloe; Schenten, Veronique; Djeghloul, Dounia; Bennabi, Meriem; Gaignier, Fanny; Vandamme, Katleen; Strazielle, Catherine; Kuzniak, Isabelle; **Petite, Herve**; Dosquet, Christine; Fripiat, Jean-Pol; Goodhardt, Michele; *Hind limb unloading, a model of spaceflight conditions, leads to decreased B lymphopoiesis similar to aging*; FASEB Journal Volume: 29 Issue: 2 Pages: 455-463 DOI: 10.1096/fj.14-259770 Published: 2015; FI 5,299; **5 - Outstanding**
40. Arkesteijn, Irene T. M.; Smolders, Lucas A.; Spillekom, Sandra; Riemers, Frank M.; **Potier, Esther**; Meij, Bjorn P.; Ito, Keita; Tryfonidou, Marianna A.; *Effect of coculturing canine notochordal, nucleus pulposus and mesenchymal stromal cells for intervertebral disc regeneration*; Arthritis Research & Therapy Volume: 17 Article Number: 60 DOI: 10.1186/s13075-015-0569-6 Published: 2015; FI 3,979; **4 - Excellent<sup>1</sup>**
41. Cruel, Magali; **Bensidhoum, Morad**; Nouguié-Lehon, Cecile; Dessombz, Olivier; **Becquart, Pierre; Petite, Herve**; Hoc, Thierry; *Numerical Study of Granular Scaffold Efficiency to Convert Fluid Flow into Mechanical Stimulation in Bone Tissue Engineering*; Tissue Engineering Part C-Methods Volume: 21 Issue: 9 Pages: 863-871 DOI: 10.1089/ten.tec.2014.0648 Published: 2015; FI 3,892; **4 - Excellent**
42. De Vries, Stefan A. H.; **Potier, Esther**; Van Doeselaar, Marina; Meij, Bjorn P.; Tryfonidou, Marianna A.; Ito, Keita; *Conditioned Medium Derived from Notochordal Cell-Rich Nucleus Pulposus Tissue Stimulates Matrix Production by Canine Nucleus Pulposus Cells and Bone Marrow-Derived Stromal Cells*; Tissue Engineering Part A Volume: 21 Issue: 5-6 Pages: 1077-1084 DOI: 10.1089/ten.tea.2014.0309 Published: 2015; FI 3,892; **4 - Excellent<sup>1</sup>**
43. Mathieu, Vincent; **Anagnostou, Fani; Soffer, Emmanuel**; Haiat, Guillaume; *Numerical simulation of ultrasonic wave propagation for the evaluation of dental implant biomechanical stability (vol 12FI 9, pg 406FI 2, 2011)*; Journal of the Acoustical Society of America Volume: 137 Issue: 2 Pages: 1048-1048 DOI: 10.1121/1.4906188 Published: 2015; FI 1,572; **3 - Honorable**
44. Van Dijk, Bart; **Potier, Esther**; Van Dijk, Maarten; Creemers, Laura; Ito, Keita; *Osteogenic protein 1 does not stimulate a regenerative effect in cultured human degenerated nucleus pulposus tissue*; Journal of Tissue Engineering and Regenerative Medicine DOI: 10.1002/term.2111 Published: 2015; FI 4,710; **5 - Outstanding<sup>1</sup>**

## 2016

45. Guillot, Raphael; Pignot-Paintrand, I.; Lavaud, J.; **Decambron, Adeline**; Bourgeois, E.; Josserand, V.; **Logeart-Avramoglou, Delphine**; Viguié, E.; Picart, Catherine; *Assessment of a polyelectrolyte multilayer film coating loaded with BMP-2 on titanium and PEEK implants in the rabbit femoral condyle*; Acta Biomaterialia Volume: 36 Pages: 310-322 DOI: 10.1016/j.actbio.2016.03.010 Published: 2016; FI 6,008; **5 - Outstanding**

## 2017

46. Sallon C, Callebaut I, Boulay I, Fontaine J, **Logeart-Avramoglou D**, Henriquet C, Pugnère M, Cayla X, Monget P, Harichaux G, Labas V, Canepa S, Taragnat C. *Thrombospondin-1 (TSP-1), a new bone morphogenetic protein-2 and -4 (BMP-2/4) antagonist identified in pituitary cells*. J Biol Chem. 2017 Jul 26. pii: jbc.M116.736207. doi: 10.1074/jbc.M116.736207. [Epub ahead of print]. FI 4.125; **4 - Excellent**
47. Felgueiras, Helena P.; **Decambron, Adeline; Manassero, Mathieu**; Tulasne, Louise; Evans, Margaret D. M.; **Viateau, Veronique**; Migonney, Veronique; *Bone tissue response induced by bioactive polymer functionalized Ti6Al4V surfaces: In vitro and in vivo study*; Journal of Colloid and Interface Science Volume: 491 Pages: 44-54 DOI: 10.1016/j.jcis.2016.12.023 Published: 2017; FI 3,782; **3 - Honorable**

## Peer-reviewed journals / Clinics

## 2015

48. **Auregan, Jean-Charles**; Larousserie, F.; Dumaine, Valerie; Babinet, Antoine; Tomeno, B.; Anract, Philippe; **Sailhan, Frederic**; *Influence of pre-operative computerized tomography on the results of surgical treatment of secondary chondrosarcomas arising on osteochondromas: a retrospective sequential cohort study*; European Orthopaedics and Traumatology Volume: 6 Issue: 1 Pages: 45-50 DOI: 10.1007/s12570-014-0284-9 Published: 2015; Sans FI; **0 - No notoriety**

49. **Auregan, Jean-Charles**; Frison, Aurelien; Begue, Thierry; **Hannouche, Didier**; Bosser, Catherine; **Bensidhoum, Morad**; Hoc, Thierry; *Contra-lateral hip fracture in the elderly: are decreased body mass index and skin thickness predictive factors?*; International Orthopaedics Volume: 41 Issue: 2 Pages: 247-252 DOI: 10.1007/s00264-016-3264-6 Published: 2017; FI 2,387; 4 - **Excellent**

Peer-reviewed journals / Collaborative work of the team / Clinics

2015

50. Murakami, Shinya; Bartold, Mark; Meyle, Joerg; Agarwal, Ruchi; **Anagnostou, Fani**; Bakalyan, Vardan; Bunyaratavej, Pintippa; Chitguppi, Rajeev; Darby, Ivan; Gamal, Ahmed; Jacob, Shaiju; Jin, Yan; John, Janice; Kale, Rahul; Liechter, Jonathan; Minh, Nguyen Thi Hong; Nagata, Toshihiko; Nazreth, Bianca; Nishida, Mieko; Pack, Angela; Patnaik, Samarjeet; Shibutani, Toshiaki; Singh, Preetinder; Soeroso, Yuniarti; Spahr, Axel; Yang, Yueh Chao; Yeung, Stephen; *Group C. Consensus paper. Periodontal regeneration-fact or fiction?*; Journal of the International Academy of Periodontology Volume: 17 Issue: 1 Suppl Pages: 54-6 Published: 2015; Sans FI; 0 - **No notoriety**

Peer-reviewed journals / Veterinary Clinics/Collaborative work of the team / Veterinary Clinics

2014

51. Vallefucio, Rosario; **Manassero, Mathieu**; Leperlier, Dimitri; Scotti, Stefano; **Viateau, Veronique**; Moissonnier, Pierre; *Surgical repair of thoraco-lumbar vertebral fracture-luxations in eight cats using screws and polymethylmethacrylate fixation*; Veterinary and Comparative Orthopaedics and Traumatology Volume: 27 Issue: 4 Pages: 306-312 DOI: 10.3415/VCOT-13-08-0098 Published: 2014; FI 0,853; 2 - **Acceptable**

2016

52. Vallefucio, Rosario; Le Pommellet, Helene; Savin, Audrey; **Decambron, Adeline; Manassero, Mathieu; Viateau, Veronique**; Gauthier, Olivier; Fayolle, Pascal; *Complications of appendicular fracture repair in cats and small dogs using locking compression plates*; Veterinary and Comparative Orthopaedics and Traumatology Volume: 29 Issue: 1 Pages: 46-52 DOI: 10.3415/VCOT-14-09-0146 Published: 2016; FI 0,853; 2 - **Acceptable**

**1.1.2. Thématique 2: Improving Bone Implant Interface**

Peer-reviewed journals / Research

2013

1. **Bachy, Manon**; Sherifi, Ines; **Zadegan, Frederic**; Petrover, David; **Petite, Herve**; **Hannouche, Didier**; *Anterior cruciate ligament surgery in the rabbit*; Journal of Orthopaedic Surgery and Research Volume: 8 Article Number: 27 DOI: 10.1186/1749-799X-8-27 Published: 2013; FI 1,215; 2 - **Acceptable**
2. **Nich, Christophe**; Takakubo, Yuya; Pajarinen, Jukka; Ainola, Mari; Salem, Abdelhakim; Sillat, Tarvo; Rao, Allison J.; Raska, Milan; Tamaki, Yasunobu; Takagi, Michiaki; Konttinen, Yrjo T; Goodman, Stuart B.; Gallo, Jiri; *Macrophages-Key cells in the response to wear debris from joint replacements*; Journal of Biomedical Materials Research Part A Volume: 101 Issue: 10 Pages: 3033-3045 DOI: 10.1002/jbm.a.34599 Published: 2013; FI 3,263; 4 - **Excellent**
3. **Nich, Christophe**; Rao, Allison J.; Valladares, Roberto D.; Li, Chenguang; Christman, Jane E.; Antonios, Joseph K.; Yao, Zhenyu; Zwingenberger, Stefan; **Petite, Herve**; **Hamadouche, Moussa**; Goodman, Stuart B.; *Role of direct estrogen receptor signaling in wear particle-induced osteolysis*; Biomaterials Volume: 34 Issue: 3 Pages: 641-650 DOI: 10.1016/j.biomaterials.2012.10.030 Published: 2013; FI 8,387; 5 - **Outstanding**
4. Rao, Allison J.; Zwingenberger, Stefan; Valladares, Roberto D.; Li, Chenguang; Smith, Robert Lane; Goodman, Stuart B.; **Nich, Christophe**; *Direct subcutaneous injection of polyethylene particles over the murine calvaria results in dramatic osteolysis*; International Orthopaedics Volume: 37 Issue: 7 Pages: 1393-1398 DOI: 10.1007/s00264-013-1887-4 Published: 2013; FI 2,387; 4 - **Excellent**
5. **Viateau, Veronique**; **Manassero, Mathieu**; **Anagnostou, Fani**; Guerard, Sandra; Mitton, David; Migonney, Veronique; *Biological and Biomechanical Evaluation of the Ligament Advanced Reinforcement System (LARS AC) in a Sheep Model of Anterior Cruciate Ligament Replacement: A 3-Month and 12-Month Study*; Arthroscopy-The Journal of Arthroscopic and Related Surgery Volume: 29 Issue: 6 Pages: 1079-1088 DOI: 10.1016/j.arthro.2013.02.025 Published: 2013; FI 3,724; 4 - **Excellent**

2014

6. **Nich, Christophe**; Goodman, Stuart B.; *Role of macrophages in the biological reaction to wear debris from joint replacements*; Journal of Long-Term Effects of Medical Implants Volume: 24 Issue: 4 Pages: 259-65 Published: 2014; Sans FI; **0 - No notoriety**
7. **Scemama, Caroline**; David, Bertrand; **Bensidhoum, Morad**; **Hamadouche, Moussa**; Osseointegration of polyethylene implants coated with titanium and biomimetically or electrochemically deposited hydroxyapatite in a rabbit model; International Orthopaedics Volume: 38 Issue: 8 Pages: 1739-1744 DOI: 10.1007/s00264-014-2364-4 Published: 2014; FI 2,387; **4 - Excellent**

2016

8. **Bachy, Manon**; **Sherifi, Ines**; **Zadegan, Frederic**; **Petite, Herve**; Vialle, Raphael; **Hannouche, Didier**; *Allograft integration in a rabbit transgenic model for anterior cruciate ligament reconstruction*; Orthopaedics & Traumatology-Surgery & Research Volume: 102 Issue: 2 Pages: 189-195 DOI: 10.1016/j.otsr.2015.12.007 Published: 2016; FI 1,393; **2 - Acceptable**
9. **Langlois, Jean**; **Zaoui, Amine**; Bichara, David A.; **Nich, Christophe**; **Bensidhoum, Morad**; **Petite, Herve**; Muratoglu, Orhun K.; **Hamadouche, Moussa**; *Biological reaction to polyethylene particles in a murine calvarial model is highly influenced by age*; Journal of Orthopaedic Research Volume: 34 Issue: 4 Pages: 574-580 DOI: 10.1002/jor.23050 Published: 2016; FI 2,807; **4 - Excellent**

### Peer-reviewed journals / Collaborative work of the of the team / Research

2012

10. Funck-Brentano, Thomas; Lin, Hilene; Hay, Eric; Kioon, Marie-Dominique Ah; Schiltz, Corinne; **Hannouche, Didier**; **Nizard, Remy**; Liote, Frederic; Orcel, Philippe; De Vernejoul, Marie-Christine; Cohen-Solal, Martine; *Targeting Bone Alleviates Osteoarthritis in Osteopenic Mice and Modulates Cartilage Catabolism*; PLoS One Volume: 7 Issue: 3 Article Number: e33543 DOI: 10.1371/journal.pone.0033543 Published: 2012; FI 3,057; **4 - Excellent**

2013

11. Nguyen, Christelle; Bazin, Dominique; Daudon, Michel; Chatron-Colliet, Aurore; **Hannouche, Didier**; Bianchi, Arnaud; Come, Dominique; So, Alexander; Busso, Nathalie; Liote, Frederic; Ea, Hang-Korng; *Revisiting spatial distribution and biochemical composition of calcium-containing crystals in human osteoarthritic articular cartilage*; Arthritis Research & Therapy Volume: 15 Issue: 5 Article Number: R103 DOI: 10.1186/ar4283 Published: 2013; FI 3,979; **4 - Excellent**
12. Goodman, Stuart B.; **Gibon, Emmanuel**; Pajarinen, Jukka; Lin, Tzu-Hua; Keeney, M.; Ren, P.-G.; **Nich, Christophe**; Yao, Zhenyu; Egashira, K.; Yang, F.; Konttinen, Yrjo T; *Novel biological strategies for treatment of wear particle-induced periprosthetic osteolysis of orthopaedic implants for joint replacement*; Journal of the Royal Society Interface Volume: 11 Issue: 93 Article Number: 20130962 DOI: 10.1098/rsif.2013.0962 Published: 2014; FI 3,818; **5 - Outstanding**
13. Konttinen, Yrjo T; Pajarinen, Jukka; Takakubo, Yuya; Gallo, Jiri; **Nich, Christophe**; Takagi, Michiaki; Goodman, Stuart B.; *Macrophage polarization and activation in response to implant debris: influence by "particle disease" and "ion disease".*; Journal of Long-Term Effects of Medical Implants Volume: 24 Issue: 4 Pages: 267-81 Published: 2014; Sans FI; **0 - No notoriety**
14. Vaquette, Cedryck; **Viateau, Veronique**; Guerard, Sandra; **Anagnostou, Fani**; **Manassero, Mathieu**; Castner, David G.; Mignonney, Veronique; *The effect of polystyrene sodium sulfonate grafting on polyethylene terephthalate artificial ligaments on in vitro mineralisation and in vivo bone tissue integration*; Biomaterials Volume: 34 Issue: 29 Pages: 7048-7063 DOI: 10.1016/j.biomaterials.2013.05.058 Published: 2013; FI 8,387; **5 - Outstanding**
15. Rao, Allison J.; **Nich, Christophe**; Dhulipala, Lakshmi S.; **Gibon, Emmanuel**; Valladares, Roberto D.; Zwingenberger, Stefan; Smith, Robert Lane; Goodman, Stuart B.; *Local effect of IL-4 delivery on polyethylene particle induced osteolysis in the murine calvarium*; Journal of Biomedical Materials Research Part A Volume: 101 Issue: 7 Pages: 1925-1934 DOI: 10.1002/jbm.a.34486 Published: 2013; FI 3,263; **4 - Excellent**

2014

16. Valladares, Roberto D.; **Nich, Christophe**; Zwingenberger, Stefan; Li, Chenguang; Swank, Katherine R.; **Gibon, Emmanuel**; Rao, Allison J.; Yao, Zhenyu; Goodman, Stuart B.; *Toll-like receptors-2 and 4 are overexpressed in an experimental model of particle-induced osteolysis*; Journal of Biomedical Materials Research Part A Volume: 102 Issue: 9 Pages: 3004-3011 DOI: 10.1002/jbm.a.34972 Published: 2014; FI 3,263; **4 - Excellent**

2015

17. Levillain, A.; Boulocher, C.; Kaderli, S.; Viguier, E.; **Hannouche, Didier**; Hoc, Thierry; Magoaric, Helene; *Meniscal biomechanical alterations in an ACLT rabbit model of early osteoarthritis*; Osteoarthritis and Cartilage Volume: 23 Issue: 7 Pages: 1186-1193 DOI: 10.1016/j.joca.2015.02.022 Published: 2015; FI 4,535; 5 - **Outstanding**

2016

18. Michel, Adrien; Bosc, Romain; **Sailhan, Frederic**; Vayron, Romain; Haiat, Guillaume; *Ex vivo estimation of cementless acetabular cup stability using an impact hammer*; Medical Engineering & Physics Volume: 38 Issue: 2 Pages: 80-86 DOI: 10.1016/j.medengphy.2015.10.006 Published: 2016; FI 1,619; 2 - **Acceptable**

2017

19. Levillain, A.; Magoaric, Helene; Boulocher, C.; **Decambron, Adeline; Viateau, Veronique**; Hoc, Thierry; *Viscoelastic properties of rabbit osteoarthritic menisci: A correlation with matrix alterations*; Journal of the Mechanical Behavior of Biomedical Materials Volume: 65 Pages: 1-10 DOI: 10.1016/j.jmbbm.2016.08.015 Published: 2017; FI 2,876; 4 - **Excellent**
20. Levillain A, Magoaric H, Boulocher C, **Decambron A, Viateau V**, Hoc T. *Effects of a viscosupplementation therapy on rabbit menisci in an anterior cruciate ligament transection model of osteoarthritis*. J Biomech. 2017 Jun 14; 58:147-154. doi: 10.1016/j.jbiomech.2017.04.034. Epub 2017 May 17. FI 2,664; 3 - **Honorable**
21. Moreau D, Villain A, **Bachy M**, Proudhon H, Ku DN, **Hannouche D, Petite H**, Corté L. *In vivo evaluation of the bone integration of coated poly(vinyl-alcohol) hydrogel fiber implants*. J Mater Sci Mater Med. 2017 Aug;28(8):114. doi:10.1007/s10856-017-5923-6. Epub 2017 Jun 19. FI 2,325; 3 - **Honorable**

### Peer-reviewed journals / Clinics

2012

22. **Hamadouche, Moussa**; Arnould, Herve; Bouxin, Bertrand; *Is a Cementless Dual Mobility Socket in Primary THA a Reasonable Option?*; Clinical Orthopaedics and Related Research Volume: 470 Issue: 11 Pages: 3048-3053 DOI: 10.1007/s11999-012-2395-3 Published: 2012; FI 3,127; 4 - **Excellent**
23. Di Schino, Marion; Augereau, Bernard; **Nich, Christophe**; *Does Open Repair of Anterosuperior Rotator Cuff Tear Prevent Muscular Atrophy and Fatty Infiltration?*; Clinical Orthopaedics and Related Research Volume: 470 Issue: 10 Pages: 2776-2784 DOI: 10.1007/s11999-012-2443-z Published: 2012; FI 3,127; 4 - **Excellent**
24. Guenoun, B.; **Zadegan, Frederic**; Aim, Florence; **Hannouche, Didier**; **Nizard, Remy**; *Reliability of a new method for lower-extremity measurements based on stereoradiographic three-dimensional reconstruction*; Orthopaedics & Traumatology-Surgery & Research Volume: 98 Issue: 5 Pages: 506-513 DOI: 10.1016/j.otsr.2012.03.014 Published: 2012; FI 1,393; 2 - **Acceptable**

2013

25. Gibon, Emmanuel; **Scemama, Caroline**; David, Bertrand; **Hamadouche, Moussa**; *Oxinium femoral head damage generated by a metallic foreign body within the polyethylene cup following recurrent dislocation episodes*; Orthopaedics & Traumatology-Surgery & Research Volume: 99 Issue: 7 Pages: 865-869 DOI: 10.1016/j.otsr.2013.04.011 Published: 2013; FI 1,393; 2 - **Acceptable**
26. Girard, Julien; Kern, Gregory; Migaud, Henri; Delaunay, Christian; Ramdane, Nassima; **Hamadouche, Moussa**; *Primary total hip arthroplasty revision due to dislocation: Prospective French multicenter study*; Orthopaedics & Traumatology-Surgery & Research Volume: 99 Issue: 5 Pages: 549-553 DOI: 10.1016/j.otsr.2013.03.026 Published: 2013; FI 1,393; 2 - **Acceptable**
27. **Langlois, Jean**; El Hage, Samer; Madi, Faouzi; Courpied, Jean-Pierre; Kerboull, Marcel; **Hamadouche, Moussa**; *Charnley-Kerboull total hip arthroplasty combining zirconia on polyethylene. A minimum eight-year follow-up prospective study*; International Orthopaedics Volume: 37 Issue: 3 Pages: 355-360 DOI: 10.1007/s00264-013-1792-x Published: 2013; FI 2,387; 4 - **Excellent**
28. **Langlois, Jean**; **Nich, Christophe**; Courpied, Jean-Pierre; **Hamadouche, Moussa**; *An unreported cause of early postoperative dislocation following total hip revision: Massive intra-capsular oedema related to inferior vena cava filter thrombosis*; Orthopaedics & Traumatology-Surgery & Research Volume: 99 Issue: 3 Pages: 367-370 DOI: 10.1016/j.otsr.2012.10.015 Published: 2013; FI 1,393; 2 - **Acceptable**
29. Reina, N.; Delaunay, Christian; Chiron, P.; Ramdane, Nassima; **Hamadouche, Moussa**; *Infection as a cause of primary total hip arthroplasty revision and its predictive factors*; Orthopaedics & Traumatology-Surgery & Research Volume: 99 Issue: 5 Pages: 555-561 DOI: 10.1016/j.otsr.2013.07.001 Published: 2013; FI 1,393; 2 - **Acceptable**

2014

30. Ehlinger, M.; Delaunay, Christian; Karoubi, Mathieu; Bonomet, F.; Ramdane, Nassima; **Hamadouche, Moussa**; *Revision of primary total hip arthroplasty for peri-prosthetic fracture: A prospective epidemiological study of 249 consecutive cases in France*; Orthopaedics & Traumatology-Surgery & Research Volume: 100 Issue: 6 Pages: 657-662 DOI: 10.1016/j.otsr.2014.03.030 Published: 2014; FI 1,393; 2 - **Acceptable**
31. **Langlois, Jean**; El Hage, Samer; **Hamadouche, Moussa**; *Intraprosthetic dislocation: a potentially serious complication of dual mobility acetabular cups*; Skeletal Radiology Volume: 43 Issue: 7 Pages: 1013-1016 DOI: 10.1007/s00256-014-1824-7 Published: 2014; FI 1,527; 3 - **Honorable**
32. **Gibon, Emmanuel**; Barut, Nicolas; Anract, Philippe; Courpied, Jean-Pierre; **Hamadouche, Moussa**; *Ninety-Day Morbidity in Patients Undergoing Primary TKA With Discontinuation of Warfarin and Bridging With LMWH*; Journal of Arthroplasty Volume: 29 Issue: 6 Pages: 1185-1188 DOI: 10.1016/j.arth.2013.12.029 Published: 2014; FI 2,515; 4 - **Excellent**
33. **Nich, Christophe**; Dhiaf, N.; Di Schino, Marion; Augereau, Bernard; *Does partial tear repair of adjacent tendons improve the outcome of supraspinatus tendonfull-thickness tear reinsertion?*; Orthopaedics & Traumatology-Surgery & Research Volume: 100 Issue: 7 Pages: 721-726 DOI: 10.1016/j.otsr.2014.07.014 Published: 2014; FI 1,393; 2 - **Acceptable**

## 2015

34. **Hamadouche, Moussa**; Lopez-Duran Stern, Luis; *Periprosthetic fractures and complicated arthroplasties*; International Orthopaedics Volume: 39 Issue: 9 Pages: 1671-1672 DOI: 10.1007/s00264-015-2977-2 Published: 2015; FI 2,387; 4 - **Excellent**
35. **Langlois, Jean**; Atlan, F.; Scemama, Caroline; Courpied, Jean-Pierre; **Hamadouche, Moussa**; *A randomised controlled trial comparing highly cross-linked and contemporary annealed polyethylene after a minimal eight-year follow-up in total hip arthroplasty using cemented acetabular components*; Bone & Joint Journal Volume: 97B Issue: 11 Pages: 1458-1462 Published: 2015; FI 2,660; 4 - **Excellent**
36. **Langlois, Jean**; Zaoui, Amine; Ozil, Camille; Courpied, Jean-Pierre; Anract, Philippe; **Hamadouche, Moussa**; *Randomized controlled trial of conventional versus modern surgical dressings following primary total hip and knee replacement*; International Orthopaedics Volume: 39 Issue: 7 Pages: 1315-1319 DOI: 10.1007/s00264-015-2726-6 Published: 2015; FI 2,387; 4 - **Excellent**
37. **Langlois, Jean**; Zaoui, Amine; Scemama, Caroline; Martell, John; Bragdon, Charles; **Hamadouche, Moussa**; *Validation of a Computer-Assisted Method for Measurement of Radiographic Wear in Total Hip Arthroplasty Using All Polyethylene Cemented Acetabular Components*; Journal of Orthopaedic Research Volume: 33 Issue: 3 Pages: 417-420 DOI: 10.1002/jor.22777 Published: 2015; FI 2,807; 4 - **Excellent**
38. **Nich, Christophe**; *CORR Insights(A (R)): What Is the Rerevision Rate After Revising a Hip Resurfacing Arthroplasty? Analysis From the AOANJRR*; Clinical Orthopaedics and Related Research Volume: 473 Issue: 11 Pages: 3465-3467 DOI: 10.1007/s11999-015-4261-6 Published: 2015; FI 3,127; 4 - **Excellent**
39. Scemama, Caroline; Dora, Claudio; **Langlois, Jean**; **Hamadouche, Moussa**; *Minimum five-year wear rate of metal-on-highly cross-linked polyethylene in primary total hip arthroplasty*; International Orthopaedics Volume: 39 Issue: 6 Pages: 1051-1055 DOI: 10.1007/s00264-014-2609-2 Published: 2015; FI 2,387; 4 - **Excellent**
40. **Sedel, Laurent**; *CORR Insights (R): Do Alumina Matrix Composite Bearings Decrease Hip Noises and Bearing Fractures at a Minimum of 5 Years After THA?*; Clinical Orthopaedics and Related Research Volume: 473 Issue: 12 Pages: 3803-3805 DOI: 10.1007/s11999-015-4472-x Published: 2015; FI 3,127; 4 - **Excellent**
41. Abane, L.; Anract, Philippe; Boisgard, Stephane; Descamps, Stephae; Courpied, Jean-Pierre; **Hamadouche, Moussa**; *A comparison of patient-specific and conventional instrumentation for total knee arthroplasty A MULTICENTRE RANDOMISED CONTROLLED TRIAL*; Bone & Joint Journal Volume: 97B Issue: 1 Pages: 56-63 DOI: 10.1302/0301-620X.97B1.34440 Published: 2015; FI 2,660; 4 - **Excellent**

## 2016

42. Aim, Florence; Lonjon, Guillaume; **Hannouche, Didier**; **Nizard, Remy**; *Effectiveness of Virtual Reality Training in Orthopaedic Surgery*; Arthroscopy-The Journal of Arthroscopic and Related Surgery Volume: 32 Issue: 1 Pages: 224-232 DOI: 10.1016/j.arthro.2015.07.023 Published: 2016; FI 3,724; 4 - **Excellent**
43. **Hannouche, Didier**; Devriese, Flore; Delambre, Jerome; Zadegan, Frederic; Tourabaly, Idriss; **Sedel, Laurent**; Chevret, Sylvie; **Nizard, Remy**; *Ceramic-on-ceramic THA Implants in Patients Younger Than 20 Years*; Clinical Orthopaedics and Related Research Volume: 474 Issue: 2 Pages: 520-527 DOI: 10.1007/s11999-015-4546-9 Published: 2016; FI 3,127; 4 - **Excellent**
44. Migaud, Henri; Putman, Sophie; Kern, Gregory; Isida, Ronald; Girard, Julien; Ramdane, Nassima; Delaunay, Christian; **Hamadouche, Moussa**; *Do the Reasons for Ceramic-on-ceramic Revisions Differ From Other Bearings in Total Hip Arthroplasty?*; Clinical Orthopaedics and Related Research Volume: 474 Issue: 10 Pages: 2190-2199 DOI: 10.1007/s11999-016-4917-x Published: 2016; FI 3,127; 4 - **Excellent**
45. **Nich, Christophe**; *CORR Insights (R): Backside Wear Is Not Dependent on the Acetabular Socket Design in Crosslinked Polyethylene Liners*; Clinical Orthopaedics and Related Research Volume: 474 Issue: 2 Pages: 383-385 DOI: 10.1007/s11999-015-4502-8 Published: 2016; FI 3,127; 4 - **Excellent**

46. **Nich, Christophe**; Vandebussche, Eric; Augereau, Bernard; Sadaka, Jerome; *Do Dual-Mobility Cups Reduce the Risk of Dislocation in Total Hip Arthroplasty for Fractured Neck of Femur in Patients Aged Older Than 75 Years?*; Journal of Arthroplasty Volume: 31 Issue: 6 Pages: 1256-1260 DOI: 10.1016/j.arth.2015.11.041 Published: 2016; FI 2,515; 4 - **Excellent**
47. **Nizard, Remy**; *CORR Insights(A (R)): Satisfying Results of Primary Hip Arthroplasty in Patients with Hip Dysplasia at a Mean Followup of 20 Years*; Clinical Orthopaedics and Related Research Volume: 474 Issue: 11 Pages: 2469-2471 DOI: 10.1007/s11999-016-5057-z Published: 2016; FI 3,127; 4 - **Excellent**
48. Scemama, Caroline; Anract, Philippe; Dumaine, Valerie; Babinet, Antoine; Courpied, Jean-Pierre; **Hamadouche, Moussa**; *Does vitamin E-blended polyethylene reduce wear in primary total hip arthroplasty: a blinded randomised clinical trial*; International Orthopaedics DOI: 10.1007/s00264-016-3320-2 Published: 2016; FI 2,387; 4 - **Excellent**
49. Pitto, Rocco P.; **Sedel, Laurent**; *Periprosthetic Joint Infection in Hip Arthroplasty: Is There an Association Between Infection and Bearing Surface Type?*; Clinical Orthopaedics and Related Research Volume: 474 Issue: 10 Pages: 2213-2218 DOI: 10.1007/s11999-016-4916-y Published: 2016; FI 3,127; 4 - **Excellent**

## 2017

50. **Hamadouche, Moussa**; Ropars, Mickael; Rodaix, Camille; Musset, Thierry; Gaucher, Francois; Biau, David Jean; Courpied, Jean-Pierre; Hutten, Denis; *Five to thirteen year results of a cemented dual mobility socket to treat recurrent dislocation.*; International Orthopaedics Volume: 41 Issue: 3 Pages: 513-519 DOI: 10.1007/s00264-016-3343-8 Published: 2017; FI 2,387; 4 - **Excellent**
51. **Nich, Christophe**; *CORR Insights(A (R)): Two- to 4-year Followup of a Short Stem THA Construct: Excellent Fixation, Thigh Pain a Concern*; Clinical Orthopaedics and Related Research Volume: 475 Issue: 2 Pages: 384-386 DOI: 10.1007/s11999-016-5019-5 Published: 2017; FI 3,127; 4 - **Excellent**

## Peer-reviewed journals / Collaborative work of the of the team / Clinics

## 2012

52. Jourdan, Claire; Poiraudreau, Serge; Descamps, Stephae; **Nizard, Remy; Hamadouche, Moussa**; Anract, Philippe; Boisgard, Stephane; Galvin, Myriam; Ravaud, Philippe; *Comparison of Patient and Surgeon Expectations of Total Hip Arthroplasty*; PLoS One Volume: 7 Issue: 1 Article Number: e30195 DOI: 10.1371/journal.pone.0030195 Published: 2012; FI 3,057; 4 - **Excellent**
53. Masquelet, A.-C.; Sales de Gauzy, Jerome; Bauer, T.; Fabre, A.; Fitoussi, Frank; **Hannouche, Didier**; Jouve, Jean-Luc; Karger, C.; Le Nen, D.; Mathevon, H.; Merloz, P.; Obert, Laurent; Poichotte, A.; Rigal, S.; *Reconstruction of post-traumatic diaphyseal bone defects: Preoperative planning, guideline, and future developments*; Revue de Chirurgie Orthopedique et Traumatologique Volume: 98 Issue: 1 Pages: 94-103 DOI: 10.1016/j.rcot.2011.12.002 Published: 2012; Sans FI; 0 - **No notoriety**
54. Serrurier, Antoine; Quijano, Sergio; **Nizard, Remy**; Skalli, Wafa; *Robust femur condyle disambiguation on biplanar X-rays*; Medical Engineering & Physics Volume: 34 Issue: 10 Pages: 1433-1440 DOI: 10.1016/j.medengphy.2012.01.008 Published: 2012; FI 1,619; 2 - **Acceptable**
55. Tourabaly, Idriss; Boutron, Isabelle; **Nizard, Remy**; Ravaud, Philippe; *ASSIST Applicability Scoring of Surgical trials. An Investigator-reported aSessment Tool*; PLoS One Volume: 7 Issue: 8 Article Number: e42258 DOI: 10.1371/journal.pone.0042258 Published: 2012; FI 3,057; 4 - **Excellent**

## 2013

56. Argenson, J.-N.; Boisgard, Stephane; Parratte, S.; Descamps, Stephae; Bercovy, M.; Bonneville, P.; Briard, J.-L.; Brilhault, J.; Chouteau, J.; **Nizard, Remy**; Saragaglia, D.; Servien, E.; *Survival analysis of total knee arthroplasty at a minimum 10 years' follow-up: A multicenter French nationwide study including 846 cases*; Orthopaedics & Traumatology-Surgery & Research Volume: 99 Issue: 4 Pages: 385-390 DOI: 10.1016/j.otsr.2013.03.014 Published: 2013; FI 1,393; 2 - **Acceptable**
57. Mougari, F.; Jacquier, H.; Bercot, B.; **Hannouche, Didier; Nizard, Remy**; Cambau, E.; Zadegan, Frederic; *Prosthetic knee arthritis due to Granulicatella adiacens after dental treatment*; Journal of Medical Microbiology Volume: 62 Pages: 1624-1627 DOI: 10.1099/jmm.0.058263-0 Published: 2013; FI 2,269; 2 - **Acceptable**

## 2014

58. Ferre, Romuald; **Gibon, Emmanuel; Hamadouche, Moussa**; Feydy, Antoine; Drape, Jean-Luc; *Evaluation of a method for the assessment of anterior acetabular coverage and hip joint space width*; Skeletal Radiology Volume: 43 Issue: 5 Pages: 599-605 DOI: 10.1007/s00256-014-1815-8 Published: 2014; FI 1,527; 3 - **Honorable**
59. Lonjon, Guillaume; Boutron, Isabelle; Trinquart, Ludovic; Ahmad, Nizar; Aim, Florence; **Nizard, Remy**; Ravaud, Philippe; *Comparison of Treatment Effect Estimates From Prospective Nonrandomized Studies With Propensity*

*Score Analysis and Randomized Controlled Trials of Surgical Procedures*; Annals of Surgery Volume: 259 Issue: 1 Pages: 18-25 DOI: 10.1097/SLA.0000000000000256 Published: 2014; 8,569; 5 - **Outstanding**

60. Palazzo, Clemence; Jourdan, Claire; Descamps, Stephae; **Nizard, Remy**; **Hamadouche, Moussa**; Anract, Philippe; Boisgard, Stephane; Galvin, Myriam; Ravaud, Philippe; Poiraudeau, Serge; *Determinants of satisfaction 1 year after total hip arthroplasty: the role of expectations fulfilment*; BMC Musculoskeletal Disorders Volume: 15 Article Number: 53 DOI: 10.1186/1471-2474-15-53 Published: 2014; FI 1,684; 3 - **Honorable**
61. Thomazeau, Josephine; Perin, Juliette; **Nizard, Remy**; Bouhassira, Didier; Collin, Elisabeth; Nguyen, Eliane; Perrot, Serge; Bergmann, Jean-Francois; Lloret-Linares, Celia; *Pain management and pain characteristics in obese and normal weight patients before joint replacement*; Journal of Evaluation in Clinical Practice Volume: 20 Issue: 5 Pages: 611-616 DOI: 10.1111/jep.12176 Published: 2014; FI 1,053; 2 - **Acceptable**
62. Kerboull, Luc; **Hamadouche, Moussa**; Kerboull, Marcel; *Transtrochanteric approach to the hip*; Mini-Invasive Surgery of the Hip Pages: 81-91 DOI: 10.1007/978-2-287-79931-0\_7 Published: 2014; Sans FI; 0 - **No notoriety**

## 2015

63. Felden, Arnaud; Vaz, G.; Kreps, S.; Anract, Philippe; **Hamadouche, Moussa**; Biau, David Jean; *A cemented acetabular component with a reinforcement cross provides excellent medium-term fixation in total hip arthroplasty after pelvic irradiation*; Bone & Joint Journal Volume: 97B Issue: 2 Pages: 177-184 DOI: 10.1302/0301-620X.97B2.34545 Published: 2015; FI 2,660; 4 - **Excellent**
64. Lonjon, Guillaume; Boutron, Isabelle; Trinquart, Ludovic; Ahmad, Nizar; Aim, Florence; **Nizard, Remy**; Ravaud, Philippe; *Equivalence Approach Is More Appropriate for Comparison of Treatment Effect Estimates Reply*; Annals of Surgery Volume: 262 Issue: 2 Pages: e67-e69 DOI: 10.1097/SLA.0000000000000597 Published: 2015; 8,569; 5 - **Outstanding**
65. Hirsch, Martin; Carli, Pierre; **Nizard, Remy**; Riou, Bruno; Baroudjian, Barouyr; Baubet, Thierry; Chhor, Vibol; Chollet-Xemard, Charlotte; Dantchev, Nicolas; Fleury, Nadia; Fontaine, Jean-Paul; Yordanov, Youri; Raphael, Maurice; Burtz, Catherine Paugam; Lafont, Antoine; *The medical response to multisite terrorist attacks in Paris*; Lancet Volume: 386 Issue: 10012 Pages: 2535-2538 DOI: 10.1016/S0140-6736(15)01063-6 Published: 2015; FI 4,002; 5 - **Outstanding**
66. Lloret-Linares, Celia; Thomazeau, Josephine; Rouquette, Alexandra; Martinez, Valeria; Rabuel, Christophe; Prince, Nathalie; Laplanche, Jean-Louis; **Nizard, Remy**; Bergmann, Jean-Francois; Perrot, Serge; *Predictive factors of opioid requirement following knee replacement*; Fundamental & Clinical Pharmacology Volume: 29 Pages: 18-18 Published: 2015; FI 2,156; 2 - **Acceptable**

## 2016

67. Herisson, Olivier; Felden, Arnaud; **Hamadouche, Moussa**; Anract, Philippe; Biau, David Jean; *Validity and Reliability of Intraoperative Radiographs to Assess Leg Length During Total Hip Arthroplasty: Correlation and Reproducibility of Anatomic Distances*; Journal of Arthroplasty Volume: 31 Issue: 12 Pages: 2784-2788 DOI: 10.1016/j.arth.2016.05.004 Published: 2016; FI 2,515; 4 - **Excellent**
68. Fabry, Christian; **Langlois, Jean**; **Hamadouche, Moussa**; Bader, Rainer; *Intra-prosthetic dislocation of dual-mobility cups after total hip arthroplasty: potential causes from a clinical and biomechanical perspective*; International Orthopaedics Volume: 40 Issue: 5 Pages: 901-906 DOI: 10.1007/s00264-015-3000-7 Published: 2016; FI 2,387; 4 - **Excellent**
69. Beaudreuil, Johann; Coudeuse, Jean Marie; Nguyen, Christelle; Deat, Philippe; Chabaud, Aurore; Pereira, Bruno; Lorenzo, Alain; **Sailhan, Frederic**; Rannou, Francois; Coudeyre, Emmanuel; *An algorithm to improve knee orthosis prescription for osteoarthritis patients.*; Annals of Physical and Rehabilitation Medicine Volume: 59S Pages: e156 DOI: 10.1016/j.rehab.2016.07.347 Published: 2016; Sans FI; 0 - **No notoriety**
70. Lhaneche, Leila; Hald, Jannie D.; Domingues, Aline; **Hannouche, Didier**; Delepine, Marc; Zelenika, Diana; Boland, Anne; Ostertag, Agnes; Cohen-Solal, Martine; Langdahl, Bente L.; Harslof, Torben; De Vernejoul, Marie-Christine; Geoffroy, Valerie; Jehan, Frederic; *Variations of SOST mRNA expression in human bone are associated with DNA polymorphism and DNA methylation in the SOST gene*; Bone Volume: 92 Pages: 107-115 DOI: 10.1016/j.bone.2016.08.004 Published: 2016; FI 3,736; 3 - **Honorable**
71. Thomazeau, Josephine; Rouquette, Alexandra; Martinez, Valeria; Rabuel, Christophe; Prince, Nathalie; Laplanche, Jean-Louis; **Nizard, Remy**; Bergmann, Jean-Francois; Perrot, Serge; Lloret-Linares, Celia; *Acute pain Factors predictive of post-operative pain and opioid requirement in multimodal analgesia following knee replacement*; European Journal of Pain Volume: 20 Issue: 5 Pages: 822-832 DOI: 10.1002/ejp.808 Published: 2016; FI 2,900; 3 - **Honorable**
72. Thomazeau, Josephine; Rouquette, Alexandra; Martinez, Valeria; Rabuel, Christophe; Prince, Nathalie; Laplanche, Jean-Louis; **Nizard, Remy**; Bergmann, Jean-Francois; Perrot, Serge; Lloret-Linares, Celia; *Predictive Factors of Chronic Post-Surgical Pain at 6 Months Following Knee Replacement: Influence of Postoperative Pain Trajectory and Genetics*; Pain Physician Volume: 19 Issue: 5 Pages: E729-E741 Published: 2016; FI 3,407; 4 - **Excellent**
73. Mosseri, Jonathan; Trinquart, Ludovic; **Nizard, Remy**; Ravaud, Philippe; *Meta-Analysis of a Complex Network of Non-Pharmacological Interventions: The Example of Femoral Neck Fracture*; PLoS One Volume: 11 Issue: 1 Article Number: e0146336 DOI: 10.1371/journal.pone.0146336 Published: 2016; FI 3,057; 4 - **Excellent**

2017

74. Prudhon, Jean-Louis; Desmarchelier, Romain; **Hamadouche, Moussa**; Delaunay, Christian; Verdier, Regis; *The SoFCOT; Causes for revision of dual-mobility and standard primary total hip arthroplasty : Matched case-control study based on a prospective multicenter study of two thousand and forty four implants*; International Orthopaedics Volume: 41 Issue: 3 Pages: 455-459 DOI: 10.1007/s00264-015-3064-4 Published: 2017; FI 2,387; 4 - **Excellent**

1.1.3. *Thématique 3: Multiscale Imaging of osteoarticular Tissue*

Peer-reviewed journals / Research

2012

1. **Pallu, Stephane**; Rochefort, Gael Y.; Jaffre, Christelle; Refregiers, Matthieu; Maurel, Delphine B.; Benaitreau, Delphine; Lespessailles, Eric; Jamme, Frederic; **Chappard, Christine**; Benhamou, Claude-Laurent; *Synchrotron Ultraviolet Microspectroscopy on Rat Cortical Bone: Involvement of Tyrosine and Tryptophan in the Osteocyte and Its Environment*; PLoS One Volume: 7 Issue: 8 Article Number: e43930 DOI: 10.1371/journal.pone.0043930 Published: 2012; FI 3,057; 4 - **Excellent**

2013

2. **Chappard, Christine**; **Bensalah, Selim**.; Olivier, Cecile.; Gouttenoire, Pierre-Jean; Marchadier, Arnaud; Benhamou, Claude-Laurent; Peyrin, Françoise; *3D characterization of pores in the cortical bone of human femur in the elderly at different locations as determined by synchrotron micro-computed tomography images*; Osteoporosis International Volume: 24 Issue: 3 Pages: 1023-1033 DOI: 10.1007/s00198-012-2044-4 Published: 2013; FI 3,445; 3 - **Honorable**
3. **Touraine, Sebastien**; Ea, Hang-Korng; **Bousson, Valerie**; Cohen-Solal, Martine; Laouisset, Liess; **Chappard, Christine**; Liote, Frederic; **Laredo, Jean-Denis**; *Chondrocalcinosis of Femoro-Tibial and Proximal Tibio-Fibular Joints in Cadaveric Specimens: A High-Resolution CT Imaging Study of the Calcification Distribution*; PLoS One Volume: 8 Issue: 1 Article Number: e54955 DOI: 10.1371/journal.pone.0054955 Published: 2013; FI 3,057; 4 - **Excellent**
4. **Bensalah Selim**, Sevestre-Ghalila Sylvie, and **Chappard Christine**. *New features to characterize the remodeling activity on cortical bone based on synchrotron radiation micro-computed tomography images*. International Journal of Computational in Bioscience 2013 vol4,1: 1-10. Sans FI; **0 - No notoriety**

2014

5. Ostertag, Agnes; Peyrin, Françoise; Fernandez, Sylvie; **Laredo, Jean-Denis**; De Vernejoul, Marie-Christine; **Chappard, Christine**; *Cortical measurements of the tibia from high resolution peripheral quantitative computed tomography images: A comparison with synchrotron radiation micro-computed tomography*; Bone Volume: 63 Pages: 7-14 DOI: 10.1016/j.bone.2014.02.009 Published: 2014; FI 3,736; 3 - **Honorable**

2015

6. **Wu, Yan**; Zhou, Liang Qiang; **Bergot, Catherine**; Peyrin, Françoise; **Bousson, Valerie**; *Cortical Bone Mineralization in the Human Femoral Neck in Cases and Controls from Synchrotron Radiation Study*; Cell Biochemistry and Biophysics Volume: 73 Issue: 1 Pages: 51-57 DOI: 10.1007/s12013-015-0572-1 Published: 2015; FI 1,627; 2 - **Acceptable**

2016

7. **Chappard, Christine**; Andre, G.; Daudon, Michel; Bazin, Dominique; *Analysis of hydroxyapatite crystallites in subchondral bone by Fourier transform infrared spectroscopy and powder neutron diffraction methods*; Comptes Rendus Chimie Volume: 19 Issue: 11-12 Pages: 1625-1630 DOI: 10.1016/j.crci.2015.03.015 Published: 2016; FI 1,798; 2 - **Acceptable**
8. **Delecourt, Celine**.; **Relier, Marius**.; **Touraine, Sebastien**; **Bouhadoun, Hamid**; Engelke, Klaus; **Laredo, Jean-Denis**; **Chappard, Christine**; *Cartilage morphology assessed by high resolution micro-computed tomography in non OA knees*; Osteoarthritis and Cartilage Volume: 24 Issue: 3 Pages: 567-571 DOI: 10.1016/j.joca.2015.10.009 Published: 2016; FI 4,535; 5 - **Outstanding**
9. Ostertag, Agnes; Peyrin, Françoise; Gouttenoire, Pierre-Jean; **Laredo, Jean-Denis**; De Vernejoul, Marie-Christine; Cohen-Solal, Martine; **Chappard, Christine**; *Multiscale and multimodality computed tomography for cortical bone analysis*; Physics in Medicine and Biology Volume: 61 Issue: 24 Pages: 8553-8576 DOI: 10.1088/0031-9155/61/24/8553 Published: 2016; FI 2,811; 4 - **Excellent**

10. Pottecher, Pierre; Engelke, Klaus; Duchemin, Laure; Museyko, Oleg; Moser, Thomas; Mitton, David; Vicaut, Eric; Adams, Judith; Skalli, Wafa; Laredo, Jean-Denis; **Bousson, Valerie**; *Prediction of Hip Failure Load: In Vitro Study of 80 Femurs Using Three Imaging Methods and Finite Element Models-The European Fracture Study (EFFECT)*; Radiology Volume: 280 Issue: 3 Pages: 837-847 DOI: 10.1148/radiol.2016142796 Published: 2016; FI 6,798; 5 - **Outstanding**
11. Laemmel E, Segal N, Mirshahi M, Azzazene D, Le Marchand S, Wybier M, Vicaut E, **Laredo JD**. *Deleterious Effects of Intra-arterial Administration of Particulate Steroids on Microvascular Perfusion in a Mouse Model*. Radiology. 2016 Jun;279(3):731-40. FI 6,798; 5 - **Outstanding**

### Peer-reviewed journals / Collaborative work of the of the team / Research

#### 2012

12. Lowitz, Torsten; Museyko, Oleg; Laouisset, Liess; Laredo, Jean-Denis; Bousson, Valerie; Kalender, Willi A.; Engelke, Klaus; *QCT indicates locally increased bone mineral density (BMD) in regions of bone marrow lesions (BML) segmented on mr images*; Annals of the Rheumatic Diseases Volume: 71 Pages: 134-135 Published: 2012; FI 2,384; 5 - **Outstanding**
13. Perrin, Laurence; Fenneteau, Odile; **Ilharreborde, Brice**; Capri, Yline; Gerard, Marion; Quoc, Emmanuel Bui; Passemard, Sandrine; Ghoumid, Jamal; Caillaud, Catherine; Froissart, Roseline; Tabet, Anne-Claude; Lebon, Sophie; El Ghouzzi, Vincent; Mazda, Keyvan; Verloes, Alain; *A new lysosomal storage disorder resembling Morquio syndrome in sibs*; European Journal of Medical Genetics Volume: 55 Issue: 3 Pages: 157-162 DOI: 10.1016/j.ejmg.2012.01.001 Published: 2012; FI 1,810; 2 - **Acceptable**
14. Prot, M.; Saletti, D.; Pattofatto, S.; **Bousson, Valerie**; Laporte, S.; *Links between microstructural properties of cancellous bone and its mechanical response to different strain rates.*; Computer Methods in Biomechanics and Biomedical Engineering Volume: 15 Suppl 1 Pages: 291-2 DOI: 10.1080/10255842.2012.713697 Published: 2012; FI 1,850; 3 - **Honorable**
15. Sansalone, Vittorio; **Bousson, Valerie**; Naili, Salah; **Bergot, Catherine**; Peyrin, Françoise; **Laredo, Jean-Denis**; Haiat, Guillaume; *Anatomical distribution of the degree of mineralization of bone tissue in human femoral neck: Impact on biomechanical properties*; Bone Volume: 50 Issue: 4 Pages: 876-884 DOI: 10.1016/j.bone.2011.12.020 Published: 2012; FI 3,736; 3 - **Honorable**
16. Sansalone, Vittorio; **Bousson, Valerie**; Naili, Salah; **Bergot, Catherine**; Peyrin, Françoise; **Laredo, Jean-Denis**; Haiat, Guillaume; *Effects of the Axial Variations of Porosity and Mineralization on the Elastic Properties of the Human Femoral Neck*; CMES-Computer Modeling in Engineering & Sciences Volume: 87 Issue: 5 Pages: 387-409 Published: 2012; FI 0,841; 2 - **Acceptable**
17. Zerfass, P.; Lowitz, Torsten; Museyko, Oleg; **Bousson, Valerie**; Laouisset, Liess; Kalender, Willi A.; Laredo, Jean-Denis; Engelke, Klaus; *An Integrated Segmentation and Analysis Approach for QCT of the Knee to Determine Subchondral Bone Mineral Density and Texture*; IEEE Transactions on Biomedical Engineering Volume: 59 Issue: 9 Pages: 2449-2458 DOI: 10.1109/TBME.2012.2202660 Published: 2012; FI 2,468; 3 - **Honorable**

#### 2013

18. Dessombz, Arnaud; Nguyen, Christelle; Ea, Hang-Korng; Rouziere, Stephan; Foy, Eddy; **Hannouche, Didier**; Reguer, Solenn; Picca, Frederic-Emmanuel; Thiaudiere, Dominique; Liote, Frederic; Daudon, Michel; Bazin, Dominique; *Combining mu X-ray fluorescence, mu XANES and mu XRD to shed light on Zn<sup>2+</sup> cations in cartilage and meniscus calcifications*; Journal of Trace Elements in Medicine and Biology Volume: 27 Issue: 4 Pages: 326-333 DOI: 10.1016/j.jtemb.2013.02.001 Published: 2013; FI 2,550; 2 - **Acceptable**
19. Hambli, R.; Benhamou, Claude-Laurent; Jennane, R.; Lespessailles, Eric; Skalli, Wafa; Laporte, S.; **Laredo, Jean-Denis**; **Bousson, Valerie**; Zarka, J.; *Combined finite element model of human proximal femur behaviour considering remodeling and fracture*; IRBM Volume: 34 Issue: 2 Pages: 191-195 DOI: 10.1016/j.irbm.2013.01.011 Published: 2013; FI 0,628; 1 - **Average**
20. Lowitz, Torsten; Museyko, Oleg; **Bousson, Valerie**; Laouisset, Liess; Kalender, Willi A.; **Laredo, Jean-Denis**; Engelke, Klaus; *Bone marrow lesions identified by MRI in knee osteoarthritis are associated with locally increased bone mineral density measured by QCT*; Osteoarthritis and Cartilage Volume: 21 Issue: 7 Pages: 957-964 DOI: 10.1016/j.joca.2013.04.006 Published: 2013; FI 4,535; 5 - **Outstanding**
21. Mathieu, Vincent; **Chappard, Christine**; Vayron, Romain; Michel, Adrien; Haiat, Guillaume; *Radial anatomic variation of ultrasonic velocity in human cortical bone*; Ultrasound in Medicine and Biology Volume: 39 Issue: 11 Pages: 2185-2193 DOI: 10.1016/j.ultrasmedbio.2013.06.005 Published: 2013; FI 2,298; 5 - **Outstanding**

#### 2014

22. Bazin, Dominique; Dessombz, Arnaud; Nguyen, Christelle; Ea, Hang-Korng; Liote, Frederic; Rehr, John; **Chappard, Christine**; Rouziere, Stephan; Thiaudiere, Dominique; Reguer, Solenn; Daudon, Michel; *The status of strontium in biological apatites: an XANES/EXAFS investigation*; Journal of Synchrotron Radiation Volume: 21 Pages: 136-142 DOI: 10.1107/S1600577513023771 Published: 2014; FI 1,877; 3 - **Honorable**

23. Dong, Pei; Hauptert, Sylvain; Hesse, Bernhard; Langer, Max; Gouttenoire, Pierre-Jean; **Bousson, Valerie**; Peyrin, Françoise; *3D osteocyte lacunar morphometric properties and distributions in human femoral cortical bone using synchrotron radiation micro-CT images*; Bone Volume: 60 Pages: 172-185 DOI: 10.1016/j.bone.2013.12.008 Published: 2014; FI 3,736; 3 - **Honorable**
24. Lowitz, Torsten; Museyko, Oleg; **Bousson, Valerie**; Kalender, Willi A.; **Laredo, Jean-Denis**; Engelke, Klaus; *A Digital Model to Simulate Effects of Bone Architecture Variations on Texture at Spatial Resolutions of CT, HR-pQCT, and  $\mu$ CT Scanners*; Journal of Medical Engineering Volume: 2014 Pages: 946574 DOI: 10.1155/2014/946574 Published: 2014; Sans FI; 0 - **No notoriety**
25. Lowitz, Torsten; Museyko, Oleg; **Bousson, Valerie**; Kalender, Willi A.; **Laredo, Jean-Denis**; Engelke, Klaus; *Characterization of knee osteoarthritis-related changes in trabecular bone using texture parameters at various levels of spatial resolution-a simulation study*; Bonekey Reports Volume: 3 Pages: 615 DOI: 10.1038/bonekey.2014.110 Published: 2014; Sans FI; 0 - **No notoriety**
26. Foiret, Josquin; Minonzio, Jean-Gabriel; **Chappard, Christine**; Talmant, Maryline; Laugier, Pascal; *Combined Estimation of Thickness and Velocities Using Ultrasound Guided Waves: A Pioneering Study on In Vitro Cortical Bone Samples*; IEEE Transactions on Ultrasonics Ferroelectrics and Frequency Control Volume: 61 Issue: 9 Pages: 1478-1488 DOI: 10.1109/TUFFC.2014.3062 Published: 2014; FI 2,287; 4 - **Excellent**

## 2015

27. Guipieri, Seraphin; Nagatani, Yoshiki; Bosc, Romain; Nguyen, Vu-Hieu; **Chappard, Christine**; Geiger, Didier; Haiat, Guillaume; *Ultrasound speed of sound measurements in trabecular bone using the echographic response of a metallic pin*; Ultrasound in Medicine and Biology Volume: 41 Issue: 11 Pages: 2966-2976 DOI: 10.1016/j.ultrasmedbio.2015.07.003 Published: 2015; FI 2,298; 5 - **Outstanding**
28. Prot, M.; Saletti, D.; Pattofatto, S.; **Bousson, Valerie**; Laporte, S.; *Links between mechanical behavior of cancellous bone and its microstructural properties under dynamic loading*; Journal of Biomechanics Volume: 48 Issue: 3 Pages: 498-503 DOI: 10.1016/j.jbiomech.2014.12.002 Published: 2015; FI 2,431; 3 - **Honorable**
29. Achiou, Zahra; Toumi, Hechmi; Touvier, Jerome; Boudenot, Arnaud; Uzbekov, Rustem; Ominsky, Michael S.; **Pallu, Stephane**; Lespessailles, Eric; *Sclerostin antibody and interval treadmill training effects in a rodent model of glucocorticoid-induced osteopenia*; Bone Volume: 81 Pages: 691-701 DOI: 10.1016/j.bone.2015.09.010 Published: 2015; FI 3,736; 3 - **Honorable**
30. Boudenot, Arnaud; Maurel, Delphine B.; Pallu, Stephane; Ingrand, Isabelle; Boisseau, Nathalie; Jaffre, Christelle; **Portier, Hugues**; *Quick benefits of interval training versus continuous training on bone: a dual-energy X-ray absorptiometry comparative study*; International Journal of Experimental Pathology Volume: 96 Issue: 6 Pages: 370-377 DOI: 10.1111/iep.12155 Published: 2015; FI 2,125; 3 - **Honorable**

## 2016

31. Aubert, Benjamin; Vergari, Claudio; **Iharreborde, Brice**; Courvoisier, Aurelien; Skalli, Wafa; *3D reconstruction of rib cage geometry from biplanar radiographs using a statistical parametric model approach*; Computer Methods in Biomechanics and Biomedical Engineering-Imaging and Visualization Volume: 4 Issue: 5 Pages: 281-295 DOI: 10.1080/21681163.2014.913990 Published: 2016; Sans FI; 0 - **No notoriety**
32. Campillo-Gimenez, L.; Frochot, V.; Bianchi, Arnaud; **Laredo, Jean-Denis**; **Chappard, Christine**; Combes, C.; Cohen-Solal, Martine; Liote, Frederic; Bazin, Dominique; Daudon, Michel; Ea, Hang-Korng; *FT-IR Analysis of calcifications of knee cartilage and fibrocartilage: presence of crystals of basic calcium phosphate and calcium pyrophosphate*; Revue du Rhumatisme (Edition Francaise) Volume: 83 Pages: A129-A130 DOI: 10.1016/S1169-8330(16)30407-0 Published: 2016; Sans FI; 0 - **No notoriety**
33. Mathieu, Vincent; Monnet, Anne-Flore; Jourden, Solenne; Panouille, Maud; **Chappard, Christine**; Souchon, Isabelle; *Kinetics of bread crumb hydration as related to porous microstructure*; Food & Function Volume: 7 Issue: 8 Pages: 3577-3589 DOI: 10.1039/c6fo00522e Published: 2016; FI 2,686; 4 - **Excellent**
34. Museyko, Oleg; **Bousson, Valerie**; Adams, Judith; **Laredo, Jean-Denis**; Engelke, Klaus; *QCT of the proximal femur-which parameters should be measured to discriminate hip fracture?*; Osteoporosis International Volume: 27 Issue: 3 Pages: 1137-1147 DOI: 10.1007/s00198-015-3324-6 Published: 2016; FI 3,445; 3 - **Honorable**

## 2017

35. Lowitz, Torsten; Museyko, Oleg; **Bousson, Valerie**; **Chappard, Christine**; Laouisset, Liess; **Laredo, Jean-Denis**; Engelke, Klaus; *Advanced Knee Structure Analysis (AKSA): a comparison of bone mineral density and trabecular texture measurements using computed tomography and high-resolution peripheral quantitative computed tomography of human knee cadavers*; Arthritis Research & Therapy Volume: 19 Issue: 1 Pages: 1 DOI: 10.1186/s13075-016-1210-z Published: 2017; FI 3,979; 4 - **Excellent**

## Peer-reviewed journals / Clinics

## 2012

36. [Bousson, Valerie](#); Royer, Mathieu; Cortet, Bernard; *Osteoporotic fractures: challenging cases and diagnostic pitfalls*; Joint Bone Spine Volume: 79 Pages: S91-S95 Published: 2012; FI 2,946; 3 - **Honorable**
37. Chicheportiche, V.; [Laredo, Jean-Denis](#); *Radiological diagnosis of hand and wrist arthritis*; Revue du Rhumatisme Monographies Volume: 79 Issue: 3 Pages: 165-172 DOI: 10.1016/j.monrhu.2012.04.004 Published: 2012; Sans FI; 0 - **No notoriety**
38. [Ilharreborde, Brice](#); Gaumetou, Elodie; Souchet, Philippe; Fitoussi, Frank; Presedo, Ana; Pennecot, Georges-Francois; Mazda, Keyvan; *Efficacy and late complications of percutaneous epiphysiodesis with transphyseal screws*; Journal of Bone and Joint Surgery-British Volume Volume: 94B Issue: 2 Pages: 270-275 DOI: 10.1302/0301-620X.94B2.27470 Published: 2012; Sans FI; 0 - **No notoriety**
39. [Ilharreborde, Brice](#); Hirsch, Caroline; Presedo, Ana; Pennecot, Georges-Francois; Mazda, Keyvan; *Circumferential Fusion With Anterior Strut Grafting and Short-segment Multipoint Posterior Fixation for Burst Fractures in Skeletally Immature Patients: A Preliminary Report*; Journal of Pediatric Orthopaedics Volume: 32 Issue: 5 Pages: 440-444 DOI: 10.1097/BPO.0b013e31824b6e00 Published: 2012; FI 1,330; 2 - **Acceptable**
40. Litzelmann, Estelle; Mazda, Keyvan; Jehanno, Pascal; Brasher, Christopher; Pennecot, Georges-Francois; [Ilharreborde, Brice](#); *Forearm Deformities in Hereditary Multiple Exostosis: Clinical and Functional Results at Maturity*; Journal of Pediatric Orthopaedics Volume: 32 Issue: 8 Pages: 835-841 DOI: 10.1097/BPO.0b013e3182694e40 Published: 2012; FI 1,330; 2 - **Acceptable**
41. Lorrot, Mathie; Dugue, S.; Mallet, Cindy; Azoulay, Robin; Doit, Catherine; Vitoux, Christine; Litzelmann, Estelle; Sebag, Guy; Bingen, Edouard; [Ilharreborde, Brice](#); *Management of acute hematogenous osteomyelitis in children*; Archives de Pediatrie Volume: 19 Issue: 6 SUPPL. 1 Pages: H74-H75 DOI: 10.1016/S0929-693X(12)71147-8 Published: 2012; FI 0,401; 1 - **Average**
42. Ould-Slimane, Mourad; Lenoir, Thibaut; Dauzac, Cyril; Rillardon, Ludovic; Hoffmann, Etienne; Guigui, Pierre; [Ilharreborde, Brice](#); *Influence of transforaminal lumbar interbody fusion procedures on spinal and pelvic parameters of sagittal balance*; European Spine Journal Volume: 21 Issue: 6 Pages: 1200-1206 DOI: 10.1007/s00586-011-2124-8 Published: 2012; FI 2,132; 3 - **Honorable**
43. Viala, Pierre; Vanel, Daniel; Larbi, Ahmed; Cyteval, Catherine; [Laredo, Jean-Denis](#); *Bilateral ischiofemoral impingement in a patient with hereditary multiple exostoses*; Skeletal Radiology Volume: 41 Issue: 12 Pages: 1637-1640 DOI: 10.1007/s00256-012-1488-0 Published: 2012; FI 1,527; 3 - **Honorable**

## 2013

44. Dallaudiere, B.; Dautry, R.; Perozziello, A.; Manelfe, J.; Loriaut, P.; Larbi, Ahmed; Paris, G.; Silvestre, A.; Koch, P.; Boyer, P.; Schouman-Claeys, E.; [Bousson, Valerie](#); [Laredo, Jean-Denis](#); *MRI T2 mapping sequence concordance with CT-arthrography for knee cartilaginous lesions in traumatic and degenerative lesions*; Journal de Traumatologie du Sport Volume: 30 Issue: 3 Pages: 146-153 DOI: 10.1016/j.jts.2013.07.011 Published: 2013; Sans FI; 0 - **No notoriety**
45. [Ilharreborde, Brice](#); *Answer to the Letter to the Editor of I. Berg et al. concerning "Adolescent idiopathic scoliosis treated with posteromedial translation: radiologic evaluation with a 3D low-dose system" by B. Ilharreborde, G. Sebag, W. Skalli and K. Mazda*; Eur Spine J (2013) Apr 12 [doi:10.1007/s00586-013-2902-6]; European Spine Journal Volume: 22 Issue: 10 Pages: 2335-2335 Published: 2013; FI 2,132; 3 - **Honorable**
46. [Ilharreborde, Brice](#); Dubousset, Jean; Skalli, Wafa; Mazda, Keyvan; *Spinal penetration index assessment in adolescent idiopathic scoliosis using EOS low-dose biplanar stereoradiography*; European Spine Journal Volume: 22 Issue: 11 Pages: 2438-2444 DOI: 10.1007/s00586-013-2892-4 Published: 2013; FI 2,132; 3 - **Honorable**
47. [Ilharreborde, Brice](#); Sebag, Guy; Skalli, Wafa; Mazda, Keyvan; *Adolescent idiopathic scoliosis treated with posteromedial translation: radiologic evaluation with a 3D low-dose system*; European Spine Journal Volume: 22 Issue: 11 Pages: 2382-2391 DOI: 10.1007/s00586-013-2776-7 Published: 2013; FI 2,132; 3 - **Honorable**
48. [Ilharreborde, Brice](#); Vidal, Christophe; Skalli, Wafa; Mazda, Keyvan; *Sagittal alignment of the cervical spine in adolescent idiopathic scoliosis treated by posteromedial translation*; European Spine Journal Volume: 22 Issue: 2 Pages: 330-337 DOI: 10.1007/s00586-012-2493-7 Published: 2013; FI 2,132; 3 - **Honorable**
49. Parlier-Cuau, Caroline; Brouard, R.; Laouisset, Liess; Touraine, Sebastien; Hamze, Bassam; Petrover, David; [Bousson, Valerie](#); [Laredo, Jean-Denis](#); *Lucencies of the cranial vault. Diagnosis and proposal for the management*; Revue du Rhumatisme Monographies Volume: 80 Issue: 1 Pages: 44-57 DOI: 10.1016/j.monrhu.2012.12.004 Published: 2013; Sans FI; 0 - **No notoriety**
50. Touraine, Sebastien; Bousson, Valerie; Kaci, Rachid; Parlier-Cuau, Caroline; Haddad, Samuel; Laouisset, Liess; Petrover, David; [Laredo, Jean-Denis](#); *Plantar fibromatosis may adopt the brain gyriform pattern of a low-grade fibromyxoid sarcoma.*; Foot Volume: 23 Issue: 2-3 Pages: 88-92 DOI: 10.1016/j.foot.2012.12.006 Published: 2013; Sans FI; 0 - **No notoriety**
51. Touraine, Sebastien; Lagadec, Matthieu; Petrover, David; Genah, Idan; Parlier-Cuau, Caroline; [Bousson, Valerie](#); [Laredo, Jean-Denis](#); *A ganglion of the patellar tendon in patellar tendon-lateral femoral condyle friction syndrome*; Skeletal Radiology Volume: 42 Issue: 9 Pages: 1323-1327 DOI: 10.1007/s00256-013-1625-4 Published: 2013; FI 1,527; 3 - **Honorable**
52. Zufferey, Pascal; [Laredo, Jean-Denis](#); *Serious transformation of marrow of distal femoral epiphysis in a patient with congenital general lipodystrophy and spondylarthritis*; Joint Bone Spine Volume: 80 Issue: 6 Pages: 666-666 DOI: 10.1016/j.jbspin.2013.04.012 Published: 2013; FI 2,946; 3 - **Honorable**

2014

53. [Bousson, Valerie](#); Chicheportiche, V.; Bercot, B.; [Laredo, Jean-Denis](#); *Pyogenic and tuberculous spine infection*; Revue du Rhumatisme Monographies Volume: 81 Issue: 1 Pages: 27-35 DOI: 10.1016/j.monrhu.2014.01.003 Published: 2014; Sans FI; 0 - No notoriety
54. Ferrero, Emmanuelle; Pesenti, S.; Blondel, Benjamin; Jouve, Jean-Luc; Mazda, Keyvan; [Ilharreborde, Brice](#); *Role of thoracoscopy for the sagittal correction of hypokyphotic adolescent idiopathic scoliosis patients*; European Spine Journal Volume: 23 Issue: 12 Pages: 2635-2642 DOI: 10.1007/s00586-014-3566-6 Published: 2014; FI 2,132; 3 - **Honorable**
55. [Ilharreborde, Brice](#); Dubousset, Jean; Le Huec, Jean-Charles; *Use of EOS imaging for the assessment of scoliosis deformities: application to postoperative 3D quantitative analysis of the trunk (vol 2FI 3, pg 39FI 7, 2014)*; European Spine Journal Volume: 23 Pages: 468-468 DOI: 10.1007/s00586-014-3468-7 Published: 2014; FI 2,132; 3 - **Honorable**
56. [Ilharreborde, Brice](#); Mazda, Keyvan; *Intrasacral rod fixation for pediatric lumbopelvic fusion*; European Spine Journal Volume: 23 Pages: 463-467 DOI: 10.1007/s00586-014-3344-5 Published: 2014; FI 2,132; 3 - **Honorable**
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120. Bocahut, Nicolas; Simon, Anne-Laure; Mazda, Keyvan; **Ilharreborde, Brice**; Souchet, Philippe; Medial to posterior release procedure after failure of functional treatment in clubfoot: a prospective study; *Journal of Children's Orthopaedics* Volume: 10 Issue: 2 Pages: 109-117 DOI: 10.1007/s11832-016-0728-6 Published: 2016; Sans FI; 0 - **No notoriety**
121. Dubory, Arnaud; Miladi, Lotfi; **Ilharreborde, Brice**; Gennari, Jean-Marie; Rouissi, Jihane; Glorion, Christophe; Flouzat-Lachaniette, Charles Henri; Odent, Thierry; Cobb-1 versus cobb-to-cobb anterior fusion for adolescent idiopathic scoliosis Lenke 5C curves: a radiological comparative study.; *European Spine Journal* DOI: 10.1007/s00586-016-4788-6 Published: 2016; FI 2,132; 3 - **Honorable**
122. Ferrero, Emmanuelle; Liabaud, Barthelemy; Challier, Vincent; Lafage, Renaud; Diebo, Bassel G.; Vira, Shaleen; Liu, Shian; Vital, Jean Marc; **Ilharreborde, Brice**; Protosaltis, Themistocles S.; Errico, Thomas J.; Schwab, Frank J.; Lafage, Virginie; Role of pelvic translation and lower-extremity compensation to maintain gravity line position in spinal deformity; *Journal of Neurosurgery-Spine* Volume: 24 Issue: 3 Pages: 436-446 DOI: 10.3171/2015.5.SPINE14989 Published: 2016; FI 2,126; 3 - **Honorable**
123. Maesani, Matthieu; Doit, Catherine; Lorrot, Mathie; Vitoux, Christine; Hilly, Julie; Michelet, Daphne; Vidal, Christophe; Julien-Marsollier, Florence; **Ilharreborde, Brice**; Mazda, Keyvan; Bonacorsi, Stephane; Dahmani, Souhayl; *Surgical Site Infections in Pediatric Spine Surgery: Comparative Microbiology of Patients with Idiopathic and Nonidiopathic Etiologies of Spine Deformity; Pediatric Infectious Disease Journal* Volume: 35 Issue: 1 Pages: 66-70 DOI: 10.1097/INF.0000000000000925 Published: 2016; FI 2,587; 4 - **Excellent**
124. Mallet, Cindy; Simon, Anne-Laure; **Ilharreborde, Brice**; Presedo, Ana; Mazda, Keyvan; Pennecot, Georges-Francois; Intramuscular psoas lengthening during single-event multi-level surgery fails to improve hip dynamics in children with spastic diplegia. Clinical and kinematic outcomes in the short- and medium-terms; *Orthopaedics & Traumatology-Surgery & Research* Volume: 102 Issue: 4 Pages: 501-506 DOI: 10.1016/j.otsr.2016.01.022 Published: 2016; FI 1,393; 2 - **Acceptable**
125. Mas, Virginie; **Ilharreborde, Brice**; Mallet, Cindy; Mazda, Keyvan; Simon, Anne-Laure; Jehanno, Pascal; Video-assisted functional assessment of index pollicisation in congenital anomalies; *Journal of Children's Orthopaedics* Volume: 10 Issue: 4 Pages: 301-306 DOI: 10.1007/s11832-016-0756-2 Published: 2016; Sans FI; 0 - **No notoriety**
126. Presedo, Ana; Simon, Anne-Laure; Mallet, Cindy; **Ilharreborde, Brice**; Mazda, Keyvan; Pennecot, Georges-Francois; Correlation between transverse plan kinematics and foot progression angle in children with spastic diplegia.; *Journal of Pediatric Orthopaedics* Volume: 26 Issue: 3 Pages: 211-216 DOI: 10.1097/BPB.0000000000000416 Published: 2016; FI 1,330; 2 - **Acceptable**
127. Thevenin-Lemoine, C.; Vial, J.; Labbe, J. L.; Lepage, B.; **Ilharreborde, Brice**; Accadbled, Franck; MRI of acute osteomyelitis in long bones of children: Pathophysiology study; *Orthopaedics & Traumatology-Surgery & Research* Volume: 102 Issue: 7 Pages: 831-837 DOI: 10.1016/j.otsr.2016.06.014 Published: 2016; FI 1,393; 2 - **Acceptable**
128. Vidal, Christophe; **Ilharreborde, Brice**; Queindec, Steffen; Mazda, Keyvan; *Role of Intraoperative Radiographs in the Surgical Treatment of Adolescent Idiopathic Scoliosis*; *Journal of Pediatric Orthopaedics* Volume: 36 Issue: 2 Pages: 178-186 DOI: 10.1097/BPO.0000000000000428 Published: 2016; FI 1,330; 2 - **Acceptable**
129. Vallet Q, Bochud N, **Chappard C**, Laugier P, Minonzio JG. *In Vivo Characterization of Cortical Bone Using Guided Waves Measured by Axial Transmission*. *IEEE Trans Ultrason Ferroelectr Freq Control*. 2016 Sep;63(9):1361-1371. FI 2,743; 3 - **Honorable**

130. Aupiais, Camille; Basmaci, Romain; **Ilharreborde, Brice**; Blachier, Audrey; Desmarest, Marie; Job-Deslandre, Chantal; Faye, Albert; Bonacorsi, Stephane; Alberti, Corinne; Lorrot, Mathie; Arthritis in children: comparison of clinical and biological characteristics of septic arthritis and juvenile idiopathic arthritis.; Archives of Disease in Childhood Volume: 102 Issue: 4 Pages: 316-322 DOI: 10.1136/archdischild-2016-310594 Published: 2017; FI 3,231; 4 - **Excellent**
131. Mühlberg A, Museyko O, **Laredo JD**, Engelke K. A reproducible semi-automatic method to quantify the muscle-lipid distribution in clinical 3D CT images of the thigh. PLoS One. 2017 Apr 28;12(4):e0175174. FI 3,057; 4 - **Excellent**
132. Nguyen C, Boutron I, Baron G, Sanchez K, Palazzo C, Benchimol R, Paris G, James-Belin É, Lefèvre-Colau MM, Beaudreuil J, **Laredo JD**, Béra-Louville A, Cotten A, Drapé JL, Feydy A, Ravaud P, Rannou F, Poiraudau S. Intradiscal Glucocorticoid Injection for Patients With Chronic Low Back Pain Associated With Active Discopathy: A Randomized Trial. Ann Intern Med. 2017 Apr 18;166(8):547-556. FI 10,377; 5 - **Outstanding**

## 1.2. Articles de synthèse / revues bibliographiques

### 1.2.1. Theme 1

2014

1. **Viateau, Veronique**; **Decambron, Adeline**; **Manassero, Mathieu**; *Animal Models for Orthopedic Applications of Tissue Engineering*; Biomaterials Pages: 151-180 DOI: 10.1002/9781119043553.ch8 Published: 2014; FI 8,387; 5 - **Outstanding**
2. Gallo, Jiri; Raska, Milan; Konttinen, Yrjo T; **Nich, Christophe**; Goodman, Stuart B.; *Innate immunity sensors participating in pathophysiology of joint diseases: a brief overview.*; Journal of Long-Term Effects of Medical Implants Volume: 24 Issue: 4 Pages: 297-317 Published: 2014; Sans FI; 0 - **No notoriety**
3. Courvoisier, Aurelien; **Sailhan, Frederic**; Laffenetre, Olivier; Obert, Laurent; *Bone morphogenetic protein and orthopaedic surgery: Can we legitimate its off-label use?*; International Orthopaedics Volume: 38 Issue: 12 Pages: 2601-2605 DOI: 10.1007/s00264-014-2534-4 Published: 2014; FI 2,387; 4 - **Excellent**

2015

4. **Mickael Deschepper**, Joseph Paquet, Adrien Moya, Mathieu Manassero, Morad Bensidhoum, **Hervé Petite**; *Des biomatériaux à l'ingénierie tissulaire. Perspectives en réparation osseuse.* (Techniques de l'Ingénieur, Réf MED7200 10 avr. 2015).
5. Boudenot, Arnaud; Achiou, Zahra; **Portier, Hugues**; *Does running strengthen bone?*; Applied Physiology Nutrition and Metabolism Volume: 40 Issue: 12 Pages: 1309-1312 DOI: 10.1139/apnm-2015-0265 Published: 2015; FI 1,910; 3 - **Honorable**

2016

6. **Paquet J, Moya A, Bensidhoum M, Petite H**. Engineered cell-free scaffold with two-stage delivery of miRNA-26a for bone repair. Ann Transl Med. 2016 May;4(10):204. doi: 10.21037/atm.2016.05.28.
7. **Paquet, Joseph**; **Moya, Adrien**; **Bensidhoum, Morad**; **Petite, Herve**; *Engineered cell-free scaffold with two-stage delivery of miRNA-26a for bone repair*; Annals of Translational Medicine Volume: 4 Issue: 10 Article Number: 204 DOI: 10.21037/atm.2016.05.28 Published: 2016; Sans FI; 0 - **No notoriety**

### 1.2.2. Theme 2

2012

1. Masquelet, A.-C.; Sales de Gauzy, Jerome; Bauer, T.; Fabre, A.; Fitoussi, Frank; **Hannouche, Didier**; Jouve, Jean-Luc; Karger, C.; Le Nen, D.; Mathevon, H.; Merloz, P.; Obert, Laurent; Poichotte, A.; Rigal, S.; *Reconstruction of post-traumatic diaphyseal bone defects: Preoperative planning, guideline, and future developments*; Revue de Chirurgie Orthopedique et Traumatologique Volume: 98 Issue: 1 Pages: 94-103 DOI: 10.1016/j.rcot.2011.12.002 Published: 2012; Sans FI; 0 - **No notoriety**
2. Zwingenberger, Stefan; **Nich, Christophe**; Valladares, Roberto D.; Yao, Zhenyu; Stiehler, Maik; Goodman, Stuart B.; *Recommendations and Considerations for the Use of Biologics in Orthopedic Surgery*; Biodrugs Volume: 26 Issue: 4 Pages: 245-256 Published: 2012; FI 2,867; 3 - **Honorable**

2013

3. **Nich, Christophe**; Takakubo, Yuya; Pajarinen, Jukka; Ainola, Mari; Salem, Abdelhakim; Sillat, Tarvo; Rao, Allison J.; Raska, Milan; Tamaki, Yasunobu; Takagi, Michiaki; Konttinen, Yrjo T; Goodman, Stuart B.; Gallo, Jiri; *Macrophages-Key cells in the response to wear debris from joint replacements*; Journal of Biomedical Materials Research Part A Volume: 101 Issue: 10 Pages: 3033-3045 DOI: 10.1002/jbm.a.34599 Published: 2013; FI 3,263; 4 - **Excellent**
4. Delaunay, Christian; **Hamadouche, Moussa**; Girard, Julien; Duhamel, Alain; *What Are the Causes for Failures of Primary Hip Arthroplasties in France?*; Clinical Orthopaedics and Related Research Volume: 471 Issue: 12 Pages: 3863-3869 DOI: 10.1007/s11999-013-2935-5 Published: 2013; FI 3,127; 4 - **Excellent**

#### 2014

5. **Nich, Christophe**; Goodman, Stuart B.; *Role of macrophages in the biological reaction to wear debris from joint replacements*; Journal of Long-Term Effects of Medical Implants Volume: 24 Issue: 4 Pages: 259-65 Published: 2014; Sans FI; 0 - **No notoriety**
6. Goodman, Stuart B.; **Gibon, Emmanuel**; Pajarinen, Jukka; Lin, Tzu-Hua; Keeney, M.; Ren, P.-G.; **Nich, Christophe**; Yao, Zhenyu; Egashira, K.; Yang, F.; Konttinen, Yrjo T; *Novel biological strategies for treatment of wear particle-induced periprosthetic osteolysis of orthopaedic implants for joint replacement*; Journal of the Royal Society Interface Volume: 11 Issue: 93 Article Number: 20130962 DOI: 10.1098/rsif.2013.0962 Published: 2014; FI 3,818; 5 - **Outstanding**

#### 2015

7. **Sedel, Laurent**; *Ceramic on Ceramic Total Hip: a 40 Years History*; E-Memoires de l'Academie Nationale de Chirurgie Volume: 14 Issue: 3 Pages: 46-50 Published: 2015
8. **Hamadouche, Moussa**; Jahnke, Alexander; Scemama, Caroline; Ishaque, Bernd Alexander; Rickert, Markus; Kerboull, Luc; Jakobowitz, Eike; *Length of clinically proven cemented hip stems: State of the art or subject to improvement?*; International Orthopaedics Volume: 39 Issue: 3 Pages: 411-416 DOI: 10.1007/s00264-014-2522-8 Published: 2015; FI 2,387; 4 - **Excellent**

#### 2016

9. **Gibon, Emmanuel**; Cordova, Luis A.; Lu, Laura; Lin, Tzu-Hua; Yao, Zhenyu; **Hamadouche, Moussa**; Goodman, Stuart B.; *The biological response to orthopedic implants for joint replacement. II: Polyethylene, ceramics, PMMA, and the foreign body reaction*; Journal of Biomedical Materials Research Part B-Applied Biomaterials DOI: 10.1002/jbm.b.33676 Published: 2016; FI 2,881; 4 - **Excellent**
10. **Gibon, Emmanuel**; Amanatullah, Derek F; Loi, Florence; Pajarinen, Jukka; Nabeshima, Akira; Yao, Zhenyu; **Hamadouche, Moussa**; Goodman, Stuart B.; *The biological response to orthopaedic implants for joint replacement: Part I: Metals.*; Journal of Biomedical Materials Research Part B-Applied Biomaterials DOI: 10.1002/jbm.b.33734 Published: 2016; FI 2,881; - **Excellent**

### 1.2.3. Theme 3

#### 2012

1. **Bousson, Valerie**; Lowitz, Torsten; Laouisset, Liess; Engelke, Klaus; **Laredo, Jean-Denis**; *CT imaging for the investigation of subchondral bone in knee osteoarthritis*; Osteoporosis International Volume: 23 Pages: S861-S865 DOI: 10.1007/s00198-012-2169-5 Published: 2012; FI 3,445; 3 - **Honorable**
2. **Laredo, Jean-Denis**; Wyler, Annabelle; Alvarez, Cecile; Aout, Mounir; Lequesne, Michel; Vicaut, Eric; *Value of bilateral standing oblique radiographs ("faux profil de lequesne") in the diagnosis of hip osteoarthritis*; Annals of the Rheumatic Diseases Volume: 71 Pages: 64-65 Published: 2012; 1FI 2,384; 5 - **Outstanding**
3. **Chappard, Christine**; *Microarchitecture assessment of human trabecular bone: description of methods*; M S-Medecine Sciences Volume: 28 Issue: 12 Pages: 1111-1115 DOI: 10.1051/medsci/20122812022 Published: 2012; FI 0,384; 1 - **Average**
4. **Bousson, Valerie**; **Bergot, Catherine**; Sutter, Bruno; Levitz, P.; Cortet, Bernard; *Trabecular bone score (TBS): available knowledge, clinical relevance, and future prospects*; Osteoporosis International Volume: 23 Issue: 5 Pages: 1489-1501 DOI: 10.1007/s00198-011-1824-6 Published: 2012; FI 3,445; 3 - **Honorable**

#### 2013

5. **Touraine, Sebastien**; Parlier-Cuau, Caroline; **Bousson, Valerie**; Sverzut, Jean-Michel; Genah, Idan; Petrover, David; **Laredo, Jean-Denis**; *Tibial hyperostosis: A diagnostic approach*; European Journal of Radiology Volume: 82 Issue: 12 Pages: 2286-2295 DOI: 10.1016/j.ejrad.2013.08.015 Published: 2013; FI 2,593; 3 - **Honorable**

6. Pelletier, Jean-Pierre; Cooper, Cyrus; Peterfy, Charles; Reginster, Jean-Yves; Brandi, Maria Luisa; Bruyere, Olivier; Chapurlat, Roland; Cicuttini, Flavia M.; Conaghan, P. G.; Doherty, M.; Genant, Harry K.; Giacobelli, G.; Hochberg, Mark; Hunter, D. J.; Kanis, John A.; Kloppenburg, Margreet; **Laredo, Jean-Denis**; McAlindon, T.; Nevitt, Michael; Raynaud, Jean-Pierre; Rizzoli, Rene; Zilkens, C.; Roemer, F.; Martel-Pelletier, Johanne; Guermazi, A.; What is the predictive value of MRI for the occurrence of knee replacement surgery in knee osteoarthritis?; *Annals of the Rheumatic Diseases* Volume: 72 Issue: 10 Pages: 1594-1604 DOI: 10.1136/annrheumdis-2013-203631 Published: 2013; 1FI 2,384; 5 - **Outstanding**

#### 2014

7. **Bousson, Valerie**; Rey-Jouvin, Caroline; **Laredo, Jean-Denis**; Le Merrer, Martine; Martin-Duverneuil, Nadine; Feydy, Antoine; Aubert, Sebastien; Chapurlat, Roland; Orcel, Philippe; *Fibrous dysplasia and McCune-Albright syndrome: Imaging for positive and differential diagnoses, prognosis, and follow-up guidelines*; *European Journal of Radiology* Volume: 83 Issue: 10 Pages: 1828-1842 DOI: 10.1016/j.ejrad.2014.06.012 Published: 2014; FI 2,593; 3 - **Honorable**
8. Blain, Hubert; Rolland, Yves; Beauchet, Olivier; Annweiler, Cedric; Benhamou, Claude-Laurent; Benetos, Athanase; Berrut, Gilles; Audran, Maurice; Bendavid, Sauveur; **Bousson, Valerie**; Briot, Karine; Brazier, Michel; Breuil, Veronique; Chapuis, Laure; Chapurlat, Roland; Cohen-Solal, Martine; Cortet, Bernard; Dargent, Patricia; Fardellone, Patrice; Feron, Jean-Marc; Gauvain, Jean-Bernard; Guggenbuhl, Pascal; Hanon, Olivier; Laroche, Michel; Kolta, Sami; Lespessailles, Eric; Letombe, Brigitte; Mallet, Eric; Marcelli, Christian; Orcel, Philippe; Puisieux, Francois; Seret, Patrick; Souberbielle, Jean-Claude; Sutter, Bruno; Tremollieres, Florence; Weryha, Georges; Roux, Christian; Thomas, Thierry; Usefulness of bone densitometry in fallers; *Revue du Rhumatisme (Edition Francaise)* Volume: 81 Issue: 4 Pages: 297-302 DOI: 10.1016/j.rhum.2014.01.004 Published: 2014; Sans FI; 0 - **No notoriety**
9. Blain, Hubert; Rolland, Yves; Beauchet, Olivier; Annweiler, Cedric; Benhamou, Claude-Laurent; Benetos, Athanase; Berrut, Gilles; Audran, Maurice; Bendavid, Sauveur; **Bousson, Valerie**; Briot, Karine; Brazier, Michel; Breuil, Veronique; Chapuis, Laure; Chapurlat, Roland; Cohen-Solal, Martine; Cortet, Bernard; Dargent, Patricia; Fardellone, Patrice; Feron, Jean-Marc; Gauvain, Jean-Bernard; Guggenbuhl, Pascal; Hanon, Olivier; Laroche, Michel; Kolta, Sami; Lespessailles, Eric; Letombe, Brigitte; Mallet, Eric; Marcelli, Christian; Orcel, Philippe; Puisieux, Francois; Seret, Patrick; Souberbielle, Jean-Claude; Sutter, Bruno; Tremollieres, Florence; Weryha, Georges; Roux, Christian; Thomas, Thierry; Usefulness of bone density measurement in fallers; *Joint Bone Spine* Volume: 81 Issue: 5 Pages: 403-408 DOI: 10.1016/j.jbspin.2014.01.020 Published: 2014; FI 2,946; 3 - **Honorable**
10. Dautry R, **Bousson V**, Manelfe J, Perozziello A, Boyer P, Loriaut P, Koch P, Silvestre A, Schouman-Claeys E, **Laredo JD**, Dallaudière B. Correlation of MRI T2 mapping sequence with knee pain location in young patients with normal standard MRI. *JBR-BTR*. 2014 Jan-Feb;97(1):11-6. Sans FI; 0 - **No notoriety**

#### 2015

11. Bisseret, Damien; Kaci, Rachid; Lafage-Proust, Marie-Helene; Alison, Marianne; Parlier-Cuau, Caroline; **Laredo, Jean-Denis**; **Bousson, Valerie**; *Periosteum: Characteristic imaging findings with emphasis on radiologic-pathologic comparisons*; *Skeletal Radiology* Volume: 44 Issue: 3 Pages: 321-338 DOI: 10.1007/s00256-014-1976-5 Published: 2015; FI 1,527; 3 - **Honorable**
12. **Bousson, Valerie**; Bergot, Catherine; Sutter, Bruno; Thomas, Thierry; Bendavid, Sauveur; Benhamou, Claude-Laurent; Blain, Hubert; Brazier, Michel; Breuil, Veronique; Briot, Karine; Chapurlat, Roland; Chapuis, Laure; Solar, Martine Cohen; Fardellone, Patrice; Feron, Jean-Marc; Gauvain, Jean-Bernard; Laroche, Michel; Legrand, Erick; Lespessailles, Eric; Linglart, Agnes; Marcelli, Christian; Roux, Christian; Souberbielle, Jean-Claude; Tremollieres, Florence; Weryha, Georges; Cortet, Bernard; *Trabecular Bone Score: Where are we now?*; *Joint Bone Spine* Volume: 82 Issue: 5 Pages: 320-325 DOI: 10.1016/j.jbspin.2015.02.005 Published: 2015; FI 2,946; 3 - **Honorable**
13. Dohan, Anthony; Parlier-Cuau, Caroline; Kaci, Rachid; Touraine, Sebastien; **Bousson, Valerie**; **Laredo, Jean-Denis**; *Vertebral involvement in Paget's disease: Morphological classification of CT and MR appearances*; *Joint Bone Spine* Volume: 82 Issue: 1 Pages: 18-24 DOI: 10.1016/j.jbspin.2014.07.009 Published: 2015; FI 2,946; 3 - **Honorable**
14. Parlier-Cuau, Caroline; **Bousson, Valerie**; Touraine, Sebastien; Hamze, Bassam; **Laredo, Jean-Denis**; *Bone metastases imaging*; *Oncologie* Volume: 17 Issue: 3 Pages: 75-89 DOI: 10.1007/s10269-015-2500-9 Published: 2015; FI 0,066; 1 - **Average**

#### 2017

15. Berthelot JM, **Laredo JD**, Darrietort-Laffite C, Maugars Y. *Stretching of roots contributes to the pathophysiology of radiculopathies*. *Joint Bone Spine*. 2017 Jan 20. pii: S1297-319. FI 2,946; 3 - **Honorable**

#### 2016

16. Berthelot JM, le Goff B, Maugars Y, **Laredo JD**. *Sacroiliac joint edema by MRI: Far more often mechanical than inflammatory?* Joint Bone Spine. 2016 Jan;83(1):3-5. FI 2,946; 3 - **Honorable**
17. **Laredo JD**, Chiras J, Kemel S, Taihi L, Hamze B. *Vertebroplasty and interventional radiology procedures for bone metastases*. Joint Bone Spine. 2017 May 9. pii: S1297-319. FI 2,946; 3 - **Honorable**

### 1.3. Autres articles (articles publiés dans des revues professionnelles ou techniques, etc.)

#### 1.3.1. Theme 1

1. Etienne D., **Cohen N.**, Azzi R, **Anagnostou F.**, *Reconstructions osseuses et remaniements muqueux*. Journal de Parodontologie et de d'Implantologie Orale 31 ; 4 ; 243-255 Nov 2012
2. **Monfoulet, Laurent-Emmanuel**; **Deschepper, Mickael**; Vandamme, Katleen; **Manassero, Mathieu**; **Becquart, Pierre**; **Bensidhoum, Morad**; **Petite, Herve**; Pacard, Elodie; **Viateau, Veronique**; **Logeart-Avramoglou, Delphine**; *Improvement of stem-cell based bone construct for the repair of massive bone defects*; IRBM Volume: 33 Issue: 2 Pages: 73-77 DOI: 10.1016/j.irbm.2012.01.008 Published: 2012;
3. **Petite, Herve**; **Bensidhoum, Morad**; *How to regenerate bone tissue?*; Biofutur Issue: 335 Pages: 44-44 Published: 2012; Sans FI; **0 - No notoriety**
4. Jacquart, S.; Belime, A.; Pigasse, C.; Siadous, R.; Fatnassi, M.; Tadier, S.; Auzely-Velty, R.; Girod-Fullana, S.; Bareille, R.; Roques, C.; El Kissi, N.; **Anagnostou, Fan**; Bignon, A.; Cordier, D.; Rey, C.; Brouillet, F.; Amedee, J.; Gaillard, H.; Combes, C.; *Development of an injectable composite for bone regeneration*; IRBM Volume: 34 Issue: 2 Pages: 176-179 DOI: 10.1016/j.irbm.2013.01.008 Published: 2013;
5. Migonney, Veronique; Ben Aissa, I.; Lutomski, D.; Helary, G.; Oughlis, S.; Poirier, F.; Changotade, S.; Peltzer, J.; Lataillade, J.-J.; Blanquaert, D.; De Lambert, B.; **Viateau, Veronique**; **Manassero, Mathieu**; Cremieux, A.-C.; Saleh-Mghir, A.; Thomas, D.; *Controlled cell Adhesion and aCtivity onto TA16V Titanium alloy by grafting of the SURFace: Elaboration of orthopaedic implants capable of preventing joint prosthesis infection*; IRBM Volume: 34 Issue: 2 Pages: 180-185 DOI: 10.1016/j.irbm.2013.
6. Sylvie Pereira, **F. Anagnostou**, Sophie-Myriam Dridi; *Gingivites érosives chroniques acquises, le piège diagnostique Recommandations pour la prise en charge bucco-dentaire des patients atteints de maladies bulleuses auto-immunes avec atteinte buccale* ; Information Dentaire ID n° 41/42 Vol.96 - 26 Novembre 2014
7. Daculsi, G.; Mainard, D.; **Petite, Herve**; Weiss, P.; *The bone: A precursor tissue for regenerative medicine*; Biofutur Issue: 368 Pages: 38-41 Published: 2015; Sans FI; **0 - No notoriety**

#### 1.3.2. Theme 2

1. **Hannouche, Didier**; *Tissue engineering in aid of articular cartilage*; Biofutur Issue: 335 Pages: 41-43 Published: 2012; Sans FI; **0 - No notoriety**
2. **Sedel, Laurent**; *From repaired man to increased Sed man*; Biofutur Issue: 335 Pages: 49-50 Published: 2012; Sans FI; **0 - No notoriety**
3. **Sedel, Laurent**; *Well implanted biomaterials*; Biofutur Issue: 335 Pages: 26-29 Published: 2012; Sans FI; **0 - No notoriety**
4. **Sedel, Laurent**; *Which policy for biomaterials?*; Biofutur Issue: 335 Published: 2012; Sans FI; **0 - No notoriety**
5. **Sailhan, Frederic**; *Surgical techniques (including MIS) in the treatment of lumbar degenerative disc disease*; Revue du Rhumatisme Monographies Volume: 80 Issue: 4 Pages: 252-259 DOI: 10.1016/j.monrhu.2013.07.011 Published: 2013; Sans FI; **0 - No notoriety**
6. **Sedel, Laurent**; *Ceramic on Ceramic Total Hip: a 40 Years History*; E-Memoires de l'Academie Nationale de Chirurgie Volume: 14 Issue: 3 Pages: 46-50 Published: 2015; Sans FI; **0 - No notoriety**
7. Buisson, N.; Laffont, C.; Pequignot, A.; Badoual, C.; Faulcon, P.; **Nich, Christophe**; *New insights into the heart of Voltaire using a multidisciplinary approach*; International Journal of Conservation Science Volume: 8 Issue: 1 Pages: 67-80 Published: 2017; Sans FI; **0 - No notoriety**

## 2. Ouvrages

### 2.1. Monographies et ouvrages scientifiques, éditions critiques, traductions

1. **Nich C, Hamadouche M**. *Réactions aux produits dérivés des implants articulaires*, Encyclopédie Médico-Chirurgicale, In Press, 2017.

### 2.2. Direction / édition scientifique

2. *Adaptation de l'os à l'activité physique. Physiopathologie des fissures et fractures de fatigue*. **Bousson V, Chicheportiche V**. *Savoir faire en radiologie ostéo-articulaire* (2016). Ed SAURAMPS MEDICAL, Paris 2016. J-D Laredo / M Wybier / V Bousson / C Parlier-Cuau / D Petrover / A Miquel. (chapitre de livre et coordination)

3. *Nouvelles séquences vraiment utiles en IRM*. Sibileau E, Sverzut JM, Perez B, Vignaux A, Bousson V. Savoir faire en radiologie ostéo-articulaire (2014). Ed SAURAMPS MEDICAL, Paris 2014. J-D Laredo / M Wybier / V Bousson / C Parlier-Cuau / D Petrover / A Miquel. (chapitre de livre et coordination)
4. *Tumeurs et pseudotumeurs des parties molles de la cheville et du pied*. Bousson V et al. Savoir faire en radiologie ostéo-articulaire (2013). Ed SAURAMPS MEDICAL, Paris 2013. J-D Laredo / M Wybier / V Bousson / C Parlier-Cuau / D Petrover / A Miquel. (chapitre de livre et coordination)
5. *Ostéome ostéoïde : pièges du diagnostic et actualités thérapeutiques*. Bousson V et al. Savoir faire en radiologie ostéo-articulaire (2013). Ed SAURAMPS MEDICAL, Paris 2013. J-D Laredo / M Wybier / V Bousson / C Parlier-Cuau / D Petrover / A Miquel. (chapitre de livre et coordination)
6. *Le radiologue face à une tumeur des tissus mous*. Touraine S, Bousson V, Laredo JD. Savoir faire en radiologie ostéo-articulaire (2013). Ed SAURAMPS MEDICAL, Paris 2013. J-D Laredo / M Wybier / V Bousson / C Parlier-Cuau / D Petrover / A Miquel. (chapitre de livre et coordination)
7. *Radio-anatomie de l'acétabulum de l'adulte : applications pratiques*. Bousson V, Sverzut JM, Chicheportiche, Laredo JD. Savoir faire en radiologie ostéo-articulaire (2013). Ed SAURAMPS MEDICAL, Paris 2013. J-D Laredo / M Wybier / V Bousson / C Parlier-Cuau / D Petrover / A Miquel. pp 57-67. (chapitre de livre et coordination)
8. *Sciatiques symptomatiques et fausses sciatiques*. Bousson V, Laredo JD. Savoir faire en radiologie ostéo-articulaire (2012). Ed SAURAMPS MEDICAL, Paris 2012. J-D Laredo / M Wybier / V Bousson / C Parlier-Cuau / D Petrover. pp 163-172. (chapitre de livre et coordination)
9. *Imagerie OstéoArticulaire*. Syllabus 2012 Coordination V Bousson et P Champsaur. 300 pages Ed SOCIETE FRANCAISE DE RADIOLOGIE

### 2.3. Chapitres d'ouvrage

#### 2.3.1. Theme 1

#### Experimental research

1. M. Manassero, A. Decambron, N. Guillemin, R. Bizios, H. Petite, V. Viateau. *Use of coral scaffold for bone tissue engineering and bone regeneration*. In: Goffredo S and Dubinsky Z, The Cnidaria, past, present and future. The world of Medusa and her sisters. 2016 (ISBN 978-3-319-31303-0).
2. V. Viateau, A. Decambron, M. Manassero. *Animals models for orthopedic applications of tissues engineering*. In: Migonney V. Biomaterials, Wiley, ISTE, London, 2014

#### Clinical research

3. F. Anagnostou et M. Bensidhoum. *L'os alvéolaire: Un type osseux particulier*. Editeur : ID. Collection tout simplement (sous presse 2017)

#### 2.3.2. Theme 2

#### Experimental research

1. V Viateau, A Decambron, M Manassero. *Design of an animal model strategy for anterior cruciate ligament tissue engineering purposes*. In: From Materials towards Biomedical Devices: Joint Prostheses, Ed. V Migonney World Scientific Publishers, 2017.
2. Nich C, Zwingenberger S, Goodman SB.: *Biologic Response to Wear Debris - Chapter 27*. In The Adult Hip, 3rd Edition, Lippincott Williams and Wilkins Publishers, 2015.
3. Hamadouche, Moussa; *Ceramic articulations*; in Callaghan, J.J., Rosenberg A.G., Rubash H.E., Clohisy J., Beaulé P., DellaValle C. The Adult Hip: Hip Arthroplasty Surgery (Third Edition) Published: 2015 Publisher: Wolters Kluwer; ISBN: 1451183690
4. Nich, Christophe; Zwingenberger, Stefan; Goodman, Stuart B.; *Biologic response to wear debris*; in Callaghan, J.J., Rosenberg A.G., Rubash H.E., Clohisy J., Beaulé P., DellaValle C. The Adult Hip: Hip Arthroplasty Surgery (Third Edition) Published: 2015 Publisher: Wolters Kluwer; ISBN: 1451183690

#### Clinical research

5. M. Hamadouche. *Ceramic Articulations in The Adult Hip*. Hip arthroplasty Surgery. Callaghan II, Rosenberg AG, Rubash HE eds. Wolters Kluwer. Philadelphia 2016.
6. M. Manassero, A. Decambron, P. Fayolle, V. Viateau. *Chirurgie du colon et du rectum*. Encyclopédie Médico-Chirurgicale Vétérinaire. 2016, 13(4): 1-21 [Article CG 3200]
7. Sailhan, Frederic; *Surgical techniques (including MIS) in the treatment of lumbar degenerative disc disease*; Revue du Rhumatisme Monographies Volume: 80 Issue: 4 Pages: 252-259 DOI: 10.1016/j.monrhu.2013.07.011 Published: 2013;

8. **M. Manassero, V. Viateau**: *Traumatologie du carpe*. Encyclopédie Médico-Chirurgicale Vétérinaire. 2012. [OR 1000] - doi : 10.1016/S1283-0828(12)51355-4

### 2.3.3. Theme 3

1. **V Bousson**, D Bisseret, **JD Laredo**. *Anatomie fonctionnelle et biomécanique de l'articulation fémoro-tibiale*. Diagnostic en imagerie rhumatologique (2016). Ed SAURAMPS MEDICAL, Paris 2016. Coordonné par JD Laredo. (chapitre de livre)
2. **V Bousson**, D Bisseret, **JD Laredo**. *Arthrose fémoro-tibiale*. Diagnostic en imagerie rhumatologique (2016). Ed SAURAMPS MEDICAL, Paris 2016. Coordonné par JD Laredo. (chapitre de livre)
3. **V Bousson**, **JD Laredo**. *Arthrite du genou*. Diagnostic en imagerie rhumatologique (2016). Ed SAURAMPS MEDICAL, Paris 2016. Coordonné par JD Laredo. (chapitre de livre)
4. **V Bousson**, V Chicheportiche, **JD Laredo**. *Radioanatomie de l'acétabulum de l'adulte : applications pratiques*. Diagnostic en imagerie rhumatologique (2016). Ed SAURAMPS MEDICAL, Paris 2016. Coordonné par JD Laredo. (chapitre de livre)
5. **V Bousson**. *Coxite rhumatismale*. Diagnostic en imagerie rhumatologique (2016). Ed SAURAMPS MEDICAL, Paris 2016. Coordonné par JD Laredo. (chapitre de livre)
6. **V Bousson**, B Cortet. *Quel avenir pour le Trabecular Bone Score (TBS) ?* Actualités rhumatologiques 2016 (chapitre de livre)
7. **Bousson V** et al. *Anatomie, biomécanique et arthrose de la fémorotibiale*. Savoir faire en radiologie ostéo-articulaire (2015). Ed SAURAMPS MEDICAL, Paris 2015. J-D Laredo / M Wybier / V Bousson / C Parlier-Cuau / D Petrover / A Miquel. (chapitre de livre et coordination)
8. Wybier M, **Bousson V** ; *Images kystiques (mucoïdes ou synoviales) et faussement kystiques (tumoraux) des tissus mous autour du genou*. Savoir faire en radiologie ostéo-articulaire (2015). Ed SAURAMPS MEDICAL, Paris 2015. J-D Laredo / M Wybier / V Bousson / C Parlier-Cuau / D Petrover / A Miquel. (chapitre de livre et coordination)
9. **V Bousson**, F Zadegan. *Traitement percutané des métastases osseuses*. Actualités rhumatologiques 2015 (chapitre de livre)
10. **Bousson V** et al. *Diagnostic d'un gros doigt/orteil*. Savoir faire en radiologie ostéo-articulaire (2014). Ed SAURAMPS MEDICAL, Paris 2014. J-D Laredo / M Wybier / V Bousson / C Parlier-Cuau / D Petrover / A Miquel. (chapitre de livre et coordination)
11. **V Bousson**, P Orcel. *Déformation du crane de l'adulte*. Actualités rhumatologiques 2014 (chapitre de livre)
12. **V Bousson**. *Imagerie des fractures vertébrales non traumatiques*. Résonance. Diagnostic en imagerie rhumatologique (2014). Ed SAURAMPS MEDICAL, Paris 2014. Coordonné par JD Laredo. (chapitre de livre)
13. **V Bousson**. *Tumeurs et pseudotumeurs du rachis*. Résonance. Diagnostic en imagerie rhumatologique (2014). Ed SAURAMPS MEDICAL, Paris 2014. Coordonné par JD Laredo. (chapitre de livre)
14. Martine Cohen-Solal, **V Bousson**. Ch 1. *Tissu osseux, formation du squelette, fractures de l'enfant et IRM de la moelle osseuse*. Imagerie Rhumatologique et orthopédique. Tome I Affections générales. Ed J-D Laredo - M Wybier - D Petrover - G Morvan. SAURAMPS MEDICAL, Paris 2013. Pp 3-13
15. P Orcel, **V Bousson**, B Naveau. *Ostéoporose et ses complications*. Ch 4. Ostéoporose, ostéopathies endocriniennes, métaboliques, toxiques, hyperostose vertébrale ankylosante et ostéopathie hypertrophiante. Imagerie Rhumatologique et orthopédique. Tome I Affections générales. Ed J-D Laredo - M Wybier - D Petrover - G Morvan. SAURAMPS MEDICAL, Paris 2013. Pp 187-207
16. **V Bousson** et al. *Spondyloarthrite*. Ch 10 *Arthrites rhumatismales*. Imagerie Rhumatologique et orthopédique. Tome I Affections générales. Ed J-D Laredo - M Wybier - D Petrover - G Morvan. SAURAMPS MEDICAL, Paris 2013. Pp 696-743
17. **V Bousson**, P Orcel, **D Hannouche**. *Actualité des tumeurs osseuses à cellules géantes (TCG)*. Actualités rhumatologiques 2013 (chapitre de livre)
18. **Bousson V**, Lafage-Proust MH Le périoste. . *Actualité rhumatologique 2012* (chapitre de livre)

### 2.4. Thèses publiées / éditées

#### 2.4.1. Thème 1

1. **Manassero M**. Modélisation animale appliquée à l'évaluation de produits d'ingénierie tissulaire osseuse : étude de la contribution de modèles animaux ectopiques et orthotopiques. Thèse soutenue le 18 Juillet 2013, Université Paris Diderot.
2. **Sladkova M**. Contributions à l'optimisation du potentiel ostéogène de cellules souches mésenchymateuses humaines associées à une matrice de carbonate de calcium : Etudes in vitro et in vivo. Thèse soutenue le 25 Juillet 2013, Université Paris Diderot.
3. **Oudina K**. Contribution à l'étude du potentiel ostéogène des IPS dérivées du muscle : Etudes in vitro et in vivo. Thèse soutenue le 30 Septembre 2015, Université Paris Diderot.

4. **Ribot J.** Impact du diabète de type 2 sur la fonctionnalité et le potentiel angiogénique des cellules souches mésenchymateuses. Thèse soutenue le 15 Décembre 2015, Université Paris Est.
5. **Moya A.** Stratégies pour améliorer la fonctionnalité des cellules souches multipotentes dérivées du stroma de la moelle osseuse en ingénierie tissulaire. Thèse soutenue le 14 Septembre 2016, Université Paris Diderot.
6. **Decambren A.** Contributions à la médecine translationnelle: optimisation de produits d'ingénierie tissulaire pour la régénération de grands défauts segmentaires osseux. Thèse soutenue le 18 Novembre 2016, Université Paris Diderot.

#### 2.4.2. Thème 2

1. **Langlois J.** Influence du vieillissement sur l'ostéolyse aux particules de polyéthylène issues de prothèses articulaires. Thèse soutenue en 2015, Université Paris Diderot.
2. **Bachy M.** Ingénierie tissulaire du ligament croisé antérieur, différentes étapes nécessaires à l'obtention d'un ligament artificiel par l'utilisation de procédés innovants. Thèse soutenue le 16 juin 2016, Université Paris Diderot.
3. **Auregan J.C.** (thèse en co-tutelle). Evaluation du risque intrinsèque de fracture de la hanche controlatérale à partir du tissu cutané des sujets ostéoporotiques. Thèse soutenue le 8 décembre 2016, Université de Lyon.
4. **Gibon E.** Déterminants génétiques de la susceptibilité individuelle à l'ostéolyse péri-prothétique associée aux particules d'usure de polyéthylène. Thèse soutenue avant fin 2017, Université Paris Diderot.

#### 2.4.3. Thème 3

1. **Bensalah M.S.** Caractérisation de l'os cortical par imagerie 3D. Soutenue en 2012, Université Paris Diderot.
2. **Mezlini H.** Segmentation 3D de l'interligne articulaire pour l'imagerie basse dose dans le diagnostic précoce de la gonarthrose. Thèse soutenue le 16 décembre 2016, Université Paris Diderot.

### 3. Colloques / congrès, séminaires de recherche

#### 3.1. Éditions d'actes de colloques / congrès

##### 3.1.1. Theme 3

### Experimental research

#### 3.2. Conference proceedings / Research

##### 3.2.1. Theme 1

### 2012

1. Cruel, Magali; **Bensidhoum, Morad**; Sudre, Laure; Puel, Guillaume; Dumas, Virginie; Hoc, Thierry; *Study of the effect of mechanical loading on cell cultures in bone tissue engineering*; 11th ASME Biennial Conference on Engineering Systems Design and Analysis, (ESDA 2012) Location: Nantes, FRANCE Date: JUL 02-04, 2012; ASME Biennial Conference on Engineering Systems Design and Analysis Pages: 279-283 DOI: 10.1115/ESDA2012-82989 Published: 2012
2. Cruel, Magali; **Bensidhoum, Morad**; **Sudre, Laure**; **Puel**, Guillaume; Hoc, Thierry; *Study of the effect of mechanical loading on cell cultures in bone tissue engineering*; 6th European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2012 Location: Vienna Date: SEP 10-14, 2012; European Congress on Computational Methods in Applied Sciences and Engineering Pages: 175-183 Published: 2012
3. **Vandamme, Katleen**; Holy, Xavier; **Bensidhoum, Morad**; **Deschepper, Mickael**; **Logeart-Avramoglou, Delphine**; Naert, Ignace; Duyck, Joke; **Petite, Herve**; *Impaired osteoblastogenesis potential of progenitor cells in skeletal unloading is associated with alterations in angiogenic and energy metabolism profile*; 6th Scientific Meeting on Lorraine Pole of Cartilage Engineering Location: Nancy, FRANCE Date: OCT 12-3, 2011; Bio-Medical Materials and Engineering Volume: 22 Issue: 4 Pages: 219-226 DOI: 10.3233/BME-2012-0711 Published: 2012

### 2014

4. **Becquart, Pierre**; Cruel, Magali; Sudre, Laure; Hoc, Thierry; **Logeart-Avramoglou, Delphine**; Bizios, R.; **Petite, Herve**; **Bensidhoum, Morad**; *Shear stress is more effective than hydrostatic pressure to induce early hMSCs*

*response to mechanical stimuli*; TERMIS, European Chapter Meeting, 10-13 June, 2014, Genova, Italy; Journal of Tissue Engineering and Regenerative Medicine Volume: 8 Pages: 466-467 Published: 2014; FI 4,710; 5

2015

5. Budyn, Elisa; Bensidhoum, Morad; Marsan, T.; Mannemare, F.; Sasnouski, S.; Tauc, P.; Deprez, E.; Petite, Herve; *How the morphologies of progenitor and mature osteocytes contributes to their mechano-transduction*; 6th International Conference on Computational Methods for Coupled Problems in Science and Engineering (COUPLED PROBLEMS) Location: Venice, ITALY Date: MAY 18-20, 2015; International Conference on Computational Methods for Coupled Problems in Science and Engineering Pages: 566-575 Published: 2015

### 3.2.2. Thème 2

#### Conference proceedings / Clinics

2015

1. Zaoui, Amine; El Hage, Samer; Langlois, Jean; Scemama, Caroline; Courpied, Jean-Pierre; Hamadouche, Moussa; *Do Oxidized Zirconium Femoral Heads Reduce Polyethylene Wear in Cemented THAs? A Blinded Randomized Clinical Trial*; Meeting of the International-Hip-Society Location: Rio de Janeiro, BRAZIL Date: 2014; Clinical Orthopaedics and Related Research Volume: 473 Issue: 12 Pages: 3822-3828 DOI: 10.1007/s11999-015-4414-7 Published: 2015
2. Pitto, Rocco P.; Garland, Mikaela; Sedel, Laurent; *Are Ceramic-on-ceramic Bearings in Total Hip Arthroplasty Associated With Reduced Revision Risk for Late Dislocation?*; Meeting of the International-Hip-Society Location: Rio de Janeiro, BRAZIL Date: 2014; Clinical Orthopaedics and Related Research Volume: 473 Issue: 12 Pages: 3790-3795 DOI: 10.1007/s11999-015-4395-6 Published: 2015

#### Conference proceedings / Collaborative work of the team / Clinics

2016

3. Levillain, A.; Boulocher, C.; Decambron, Adeline; Viateau, Veronique; Hoc, Thierry; Magoaric, Helene; *Intra-articular injection of hyaluronic acid to prevent osteoarthritis: efficacy assessment on knee meniscus in the acit rabbit model*; World Congress of the Osteoarthritis-Research-Society-International (OARSI) on Osteoarthritis Location: Amsterdam, NETHERLANDS Date: MAR 31-APR 03, 2016; Osteoarthritis and Cartilage Volume: 24 Pages: S529-S529 Published: 2016

### 3.2.3. Thème 3

#### Conference proceedings / Clinics

2015

1. Mezlini, Houda; Youssef, Rabaa; Bouhadoun, Hamid; Budyn, Elisa; Laredo, Jean-Denis; Sevestre-Ghalila, Sylvie; Chappard, Christine; *High resolution volume quantification of the knee joint space based on a semi-automatic segmentation of computed tomography images*; 22nd International Conference on Systems, Signals and Image Processing (IWSSIP) Location: City Univ London, London, ENGLAND Date: SEP 10-12, 2015; International Conference on Systems Signal and Image Processing Pages: 157-161 DOI: 10.1109/IWSSIP.2015.7314201 Published: 2015
2. Youssef, Rabaa; Bouhadoun, Hamid; Laredo, Jean-Denis; Chappard, Christine; *Semi-automatic compartment extraction to assess 3D bone mineral density and morphometric parameters of the subchondral bone in the tibial knee*; 19th International Conference on Information Visualisation IV 2015 Location: Barcelona, SPAIN Date: JUL 22-24, 2015; IEEE International Conference on Information Visualisation Pages: 518-523 DOI: 10.1109/iV.2015.92 Published: 2015
3. Youssef, Rabaa; Kacem, Anis; Sevestre-Ghalila, Sylvie; Chappard, Christine; *Graph Structuring of Skeleton Object for Its High-Level Exploitation*; 12th International Conference on Image Analysis and Recognition (ICIAR) Location: Niagara Falls, CANADA Date: JUL 22-24, 2015; Lecture Notes in Computer Science Volume: 9164 Pages: 419-426 DOI: 10.1007/978-3-319-20801-5\_46 Published: 2015

2016

4. Di Marco, J.; Kaci, Rachid; Orcel, Philippe; Nizard, Remy; Laredo, Jean-Denis; Radiation-induced undifferentiated pleomorphic sarcoma after radiation therapy for a desmoid tumour; *Cancer Radiotherapie* Volume: 20 Issue: 1 Pages: 36-38 DOI: 10.1016/j.canrad.2015.06.021 Published: 2016

### Conference proceedings / Collaborative work of the team / Research

#### 2012

5. Sansalone, Vittorio; Bousson, Valerie; Naili, Salah; Bergot, Catherine; Peyrin, Françoise; Laredo, Jean-Denis; Haiat, Guillaume; Micro-CT based homogenization of the elastic properties of cortical bone: Influence of the heterogeneous distribution of mineral and porosity; 6th European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2012 Location: Vienna Date: SEPT 10-14, 2012; European Congress on Computational Methods in Applied Sciences and Engineering Pages: 3301-3309 Published: 2012
6. Sansalone, Vittorio; Bousson, Valerie; Naili, Salah; Bergot, Catherine; Peyrin, Françoise; Laredo, Jean-Denis; Haiat, Guillaume; *Role of porosity and Tissue Mineral Density in determining the elastic properties of cortical bone tissue in the human femoral neck*; 6th European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2012 Location: Vienna Date: SEPT 10-14, 2012; European Congress on Computational Methods in Applied Sciences and Engineering Pages: 6004-6012 Published: 2012
7. Deroide, Nicolas; Bousson, Valerie; Daguet, Edouard; Dumurgier, Julien; Tin, Sophie Ng Wing; Hannouche, Didier; Richette, Pascal; Beaudreuil, Johann; Liote, Frederic; Levy, Bernard; Vicaut, Eric; Laredo, Jean-Denis; Kubis, Nathalie; *Muscle magnetic resonance imaging sensitivity does not decrease in chronic, mild, or proximal lower limb neuropathies*; *Muscle & Nerve* Volume: 45 Issue: 5 Pages: 659-667 DOI: 10.1002/mus.23239 Published: 2012
8. Masquelet, A.-C.; Benko, P. E.; Mathevon, H.; Hannouche, Didier; Obert, Laurent; *Harvest of cortico-cancellous intramedullary femoral bone graft using the reamer-irrigator-aspirator (RIA)*; Symposium on Treatment of Post-Traumatic Diaphyseal Bone Defects/85th Annual Meeting of the SoFCOT Location: Paris, FRANCE Date: NOV, 2010; *Orthopaedics & Traumatology-Surgery & Research* Volume: 98 Issue: 2 Pages: 227-232 DOI: 10.1016/j.otsr.2012.01.003 Published: 2012

#### 2013

9. Elhage R, Rocher E, Chappard C, Benhamou CL. *The influence of a 6-month physical training program on body composition, bone mineral density, hip bone geometry and markers of bone remodeling in a group of obese children*. 11/2013; In proceeding of: ACAPS Grenoble 2013
10. Elhage R, Rocher E, Chappard C, Benhamou CL. *Effets du désentraînement physique sur la densité minérale osseuse chez des enfants obèses*. 11/2013; In proceeding of: ACAPS Grenoble 2013

#### 2014

11. Vallet, Quentin; Minonzio, Jean-Gabriel; Chappard, Christine; Talmant, Maryline; Laugier, Pascal; *In vivo measurements of guided waves at the forearm*; IEEE International Ultrasonics Symposium (IUS) Location: Chicago, IL Date: SEP 03-06, 2014; IEEE International Ultrasonics Symposium Pages: 931-934 DOI: 10.1109/ULTSYM.2014.0228 Published: 2014

#### 2016

12. Ciani, A.; Guizar-Sicairos, M.; Diaz, A.; Hollers, M.; Pallu, Stephane; Achiou, Zahra; Jennane, R.; Toumi, Hechmi; Lespessailles, Eric; Kewish, C. M.; *Segmentation of Nanotomographic Cortical Bone Images for Quantitative Characterization of the Osteocyte Lacuno-Canalicular Network*; 12th International Conference on X-Ray Microscopy Location: Australian Synchrotron, Melbourne, AUSTRALIA Date: OCT 26-31, 2014; AIP Conference Proceedings Volume: 1696 Article Number: 020040 DOI: 10.1063/1.4937534 Published: 2016
13. Sansalone, Vittorio; Gagliardi, Davide; Desceliers, Christophe; Bousson, Valerie; Laredo, Jean-Denis; Peyrin, Françoise; Haiat, Guillaume; Naili, Salah; *Stochastic multiscale modelling of cortical bone elasticity based on high-resolution imaging*; 11th World Congress on Computational Mechanics (WCCM) / 5th European Conference on Computational Mechanics (ECCM) / 6th European Conference on Computational Fluid Dynamics (ECFD) Location: Barcelona, SPAIN Date: JUL 20-25, 2014; *Biomechanics and Modeling in Mechanobiology* Volume: 15 Issue: 1 Pages: 111-131 DOI: 10.1007/s10237-015-0695-8 Published: 2016

### **3.3. Autres produits présentés dans des colloques / congrès et des séminaires de recherche**

#### **3.3.1. Theme 1**

### Experimental research

1. [Caliaperoumal G.](#), [Struillou X.](#), [Petite H.](#), [Anagnostou F.](#) Human Adipose Derived Stem Cell-Coral Constructs and Bone Formation. Annual Meeting of the IADR International Association of Dental Research / Unilever Division European;) Juin 2012 Iguasu Brazil
2. [Logeart-Avramoglou D](#); [Crouzier T](#); [Sailhan F](#), [Becquart P](#); [Guillot R](#); [Picart C](#) Polyelectrolyte multilayer film as bioactive BMP-2 carrier for bone tissue application - Orthopaedics research Society 2012 annual meeting- 4-7 February 2012, San Francisco (Poster)
3. [Logeart-Avramoglou D](#); [Cambon-Binder A](#); [Becquart P](#); [Bourguignon M](#); [Monfoulet LE](#), [Bensidhoum M](#); [Petite H](#): Fate of hMSC in tissue engineered constructs in vivo- Orthopaedics research Society 2012 annual meeting- 4-7 February 2012, San Francisco (Poster)
4. [Crouzier, Thomas](#); [Sailhan, Frederic](#); [Becquart, Pierre](#); [Guillot, Raphael](#); [Logeart-Avramoglou, Delphine](#); [Picart, Catherine](#); *BMP-2 loaded TCP/HAP porous ceramics with a polyelectrolyte multilayer film coating*; Journal of Tissue Engineering and Regenerative Medicine Volume: 6 Pages: 28-28 Published: 2012
5. [Monfoulet, Laurent-Emmanuel](#); [Becquart, Pierre](#); [Vandamme, Katleen](#); [Petite, Herve](#); [Pacard, Elodie](#); [Viateau, Veronique](#); [Logeart-Avramoglou, Delphine](#); *In vitro and in vivo assessment of pro-osteogenic potential of three ceramics for bone tissue engineering*; 3rd TERMIS World Congress, Sept 5-8, 2012 Vienna; Journal of Tissue Engineering and Regenerative Medicine Volume: 6 Pages: 35-35 Published: 2012
6. [Logeart-Avramoglou, Delphine](#); [Becquart, Pierre](#); [Cambon-Binder, Adeline](#); [Bourguignon, Marianne](#); [Bensidhoum, Morad](#); [Petite, Herve](#); *Ischemia is a prime but not the only cause of hMSC death in tissue engineered constructs in vivo*; Journal of Tissue Engineering and Regenerative Medicine Volume: 6 Pages: 375-375 Published: 2012; FI 4,710; 5
7. [Manassero, Mathieu](#); [Viateau, Veronique](#); [Oudina, Karim](#); [Petite, Herve](#); [Bensidhoum, Morad](#); *Coralline scaffold combined with autologous stem cells for de novo reconstruction of bone defect in sheep*; Journal of Tissue Engineering and Regenerative Medicine Volume: 6 Pages: 36-36 Published: 2012; FI 4,710
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### Clinical research

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### 3.3.2. Theme 2

### Experimental research

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2. **V Viateau**, M Manassero, **F Anagnostou**, S Guérard, D Mitton, V Mignonney. *A new bio-active artificial ligament for intracapsular stabilization of CrCL deficiency : a 3 and 12 months study in sheep.* 21st Annual meeting of the European College of Veterinary Surgeons, Barcelona, July2012.
3. **Hamadouche M.**, Courpied J.P.: Randomized comparison of oxinium Vs. metal against conventional and highly cross-linked polyethylene. 79<sup>th</sup> Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS), San Francisco, CA, 2012.
4. **Hamadouche M.**, Arnould H., Bouxin B.: Mid-term results of a cementless dual mobility socket in primary THA. Concerns with the 3rd articulation. 79<sup>th</sup> Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS), San Francisco, CA, 2012.
5. **Hamadouche M.**, El Hage S., Scemama C., **Zadegan F.**, Grosjean G., Mathieu M., Courpied J.P.:Etude prospective randomisée comparant oxinium versus métal sur polyéthylène conventionnel et hautement réticulé. 87<sup>e</sup> Réunion Annuelle de la Société Française de Chirurgie Orthopédique et Traumatologique (SOFOT), Paris, France, Novembre 2012.
6. Langlois J., Atlan F., Scemama C., Courpied J.P., **Hamadouche M.**: Polyéthylène hautement réticulé versus polyéthylène conventionnel. Etude prospective randomisée à 8 ans minimum de recul utilisant la méthode de Martell. 87<sup>e</sup> Réunion Annuelle de la Société Française de Chirurgie Orthopédique et Traumatologique (SOFOT), Paris, France, Novembre 2012.
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8. [Hamadouche M.](#), [Scemama C.](#), [Courpied J.P.](#), [Kerboull L.](#): *The influence of stem length on primary rotational and tilting stability after line-to-line cementation.* 59<sup>th</sup> Annual Meeting of the Orthopaedic Research Society (ORS), San Antonio, CA, 2013
9. [Langlois J.](#), [Atlan F.](#), [Scemama C.](#), [Courpied J.P.](#), [Hamadouche M.](#): RCT comparison after a minimal 8-year follow-up of XLPE versus contemporary annealed PE in THA. 80<sup>th</sup> Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS), Chicago, IL, 2013.
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11. [Zaoui A.](#), [Langlois J.](#), [El Hage S.](#), [Scemama C.](#), [Courpied J.P.](#), [Hamadouche M.](#): RCT comparison of delta ceramic versus metal against contemporary annealed polyethylene in THA. 23<sup>rd</sup> Annual meeting of the American Association of Hip and Knee Surgeons (AAHKS), Dallas, TX, November, 2013.
12. [Zaoui A.](#), [Hamadouche M.](#), [Langlois J.](#), [El Hage S.](#), [Scemama C.](#), [Courpied J.P.](#): *Etude prospective randomisée comparant céramique delta versus métal sur polyéthylène conventionnel recuit dans l'arthroplastie de hanche primaire.* 88<sup>e</sup> Réunion Annuelle de la Société Française de Chirurgie Orthopédique et Traumatologique (SOFcot), Paris, France, Novembre 2013.
13. [Bensidhoum M.](#), [David B.](#), [Petite H.](#), [Hamadouche M.](#): Evaluation des propriétés ostéoconductrices d'un revêtement titane-hydroxyapatite sur du polyéthylène chez le lapin. 88<sup>e</sup> Réunion Annuelle de la Société Française de Chirurgie Orthopédique et Traumatologique (SOFcot), Paris, France, Novembre 2013.
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15. [Gibon E.](#), [Hamadouche M.](#), [Barut N.](#), [Anract P.](#), [Courpied J.P.](#): *Morbidité à 3 mois après arthroplastie primaire du genou chez des patients sous AVK au long cours.* 88<sup>e</sup> Réunion Annuelle de la Société Française de Chirurgie Orthopédique et Traumatologique (SOFcot), Paris, France, Novembre 2013.
16. [Abane L.](#), [Hamadouche M.](#), [Boisgard S.](#), [Descamps S.](#), [Levai J.P.](#), [Courpied J.P.](#), [Anract P.](#): *Etude prospective randomisée multicentrique comparant ancillaire standard standard versus ancillaire spécifique dans l'arthroplastie totale primaire du genou.* 88<sup>e</sup> Réunion Annuelle de la Société Française de Chirurgie Orthopédique et Traumatologique (SOFcot), Paris, France, Novembre 2013.

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18. [Caroline Scemama](#) et al. *Osseointegration Of Polyethylene Implants Coated With A Thin Layer Of Titanium And Biomimetically Or Electrochemically Deposited Hydroxyapatite In A Rabbit Model.* 60<sup>th</sup> ORS Congress, New Orleans, USA, 2014.
19. [J Langlois](#), [D A. Bichara](#), [B David](#), [H Petite](#), [K K. Wannomae](#), [M Hamadouche](#), [Or K. Muratolgu](#), *Murine Model Of Particle-induced Osteolysis Using A Titanium Tibial Implant To Test The Influence Of Aging On Bone Turnover* 60<sup>th</sup> ORS Congress, New Orleans, USA, 2014.
20. [Amine Zaoui](#) et al : *Non-invasive Real-time Assessment Of Polyethylene Induced Inflammation In A Murine Calvarial Model Of Osteolysis.* 60<sup>th</sup> ORS Congress, New Orleans, USA, 2014.
21. [Gibon E.](#), [Barut N.](#), [Courpied J.P.](#), [Anract P.](#), [Hamadouche M.](#): *Ninety-day morbidity in patients undergoing primary TKA with discontinuation of warfarin and bridging with LMWH.* 81<sup>st</sup> Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS), New Orleans, LO, 2014.
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23. [Scemama C.](#), [Bensidhoum M.](#), [David B.](#), [Petite H.](#), [Hamadouche M.](#): *Osseointegration of polyethylene implants coated with a thin layer of titanium and biomimetically or electrochemically deposited hydroxyapatite in a rabbit model.* 58<sup>th</sup> Annual Meeting of the Orthopaedic Research Society (ORS), New Orleans, LO, 2014.
24. [Langlois J.](#), [Zaoui A.](#), [Scemama C.](#), [Hamadouche M.](#): *Validation of a computer-assisted method for measurement of radiographic wear in total hip arthroplasties using full polyethylene cemented acetabular components.* 58<sup>th</sup> Annual Meeting of the Orthopaedic Research Society (ORS), New Orleans, LO, 2014.
25. [Langlois J.](#), [Zaoui A.](#), [Scemama C.](#), [Hamadouche M.](#): *Validation of a computer-assisted method for measurement of radiographic wear in total hip arthroplasties using full polyethylene cemented acetabular components.* 58<sup>th</sup> Annual Meeting of the Orthopaedic Research Society (ORS), New Orleans, LO, 2014.
26. [Zaoui A.](#), [Langlois J.](#), [Nich C.](#), [Logeart-Avrarmoglou D.](#), [Bensidhoum M.](#), [Scemama C.](#), [Petite H.](#), [Hamadouche M.](#): *Non-invasive real-time assessment of polyethylene induced inflammation in a murine calvarial model of osteolysis.* 58<sup>th</sup> Annual Meeting of the Orthopaedic Research Society (ORS), New Orleans, LO, 2014.

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28. **Langlois J., Hamadouche M., Zaoui A., Anract P., Courpied J.P.:** Etude prospective randomisée comparant un pansement conventionnel versus un pansement hydrofibre absorbant après arthroplastie primaire de hanche et de genou. 89<sup>e</sup> Réunion Annuelle de la Société Française de Chirurgie Orthopédique et Traumatologique (SOFcot), Paris, France, Novembre 2014.
29. **Zaoui A., Courpied J.P., Hamadouche M., Hage S., Scemama C., Langlois J.** Etude prospective randomisée comparant oxinium versus métal sur polyéthylène conventionnel et hautement réticulé. 89<sup>e</sup> Réunion Annuelle de la Société Française de Chirurgie Orthopédique et Traumatologique (SOFcot), Paris, France, Novembre 2014.
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31. **Prudhon J.L., Hamadouche M., Delaunay C., Ramdane N., Steffann F.:** Cupule double mobilité et révision de Prothèse Totale de Hanche - Suivi prospectif à 2 ans d'une série de 79 implants double mobilité collectée à l'occasion du symposium SoFCOT 2012. 89<sup>e</sup> Réunion Annuelle de la Société Française de Chirurgie Orthopédique et Traumatologique (SOFcot), Paris, France, Novembre 2014.
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34. **Langlois J., Zaoui A., Scemama C., Bragdon C., Martell J., Hamadouche M.:** Validation d'une technique de mesure assistée par ordinateur pour la mesure radiographique de l'usure de cupules en polyéthylène cimentées. 89<sup>e</sup> Réunion Annuelle de la Société Française de Chirurgie Orthopédique et Traumatologique (SOFcot), Paris, France, Novembre 2014.
35. **Zaoui A., Courpied J.P., Hage S., Scemama C., Langlois J., Hamadouche M.:** RCT comparison of oxinium versus metal against polyethylene and XLPE in THA. International Hip Society (IHS) closed meeting. Rio, 2014.
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37. **Hamadouche M., Scemama C., Dora C.:** Minimum 5-year wear rate of metal-on-highly cross-linked polyethylene in primary THA using the Martell Method. International Society for Technology in Arthroplasty (ISTA). Kyoto, 2014.
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41. **Zaoui A., ElHage S., Scemama C., Langlois J., Courpied J.P., Hamadouche M.:** Randomized comparison of oxinium versus metal against conventional and highly cross-linked polyethylene. 82<sup>nd</sup> Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS), Las Vegas, NV, 2015.
42. **Zaoui A., Langlois J., El Hage S., Scemama C., Mathieu M., Courpied J.P., Hamadouche M.:** RCT comparison of delta ceramic versus metal against conventional polyethylene in THA. 82<sup>nd</sup> Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS), Las Vegas, NV, 2015.
43. **Scemama C., Anract P., Dumaine V., Babinet A., Courpied J.P., Hamadouche M.:** RCT comparison after a minimal 4-year follow-up of vitamin E doped versus conventional PE in THA. International Hip Society (IHS) closed meeting. Chicago, IL, 2015

## 2016

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## Clinical research

## 2012

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52. [M. Manassero](#), [A. Decambron](#), [R. Vallefucio](#), [D. Leperlier](#), [C. Ollier](#), [V. Migonney](#), [V. Viateau](#). *Novel intracapsular stabilization technique applied in 6 dogs with cranial cruciate ligament (crcl) rupture: a pilot study*. 21<sup>th</sup> Annual Scientific Meeting ECVS (European College of Veterinary Surgery), Barcelona, Spain, 2012 - Presented in Oral Poster Session
53. [V. Viateau](#), [M. Manassero](#), [F. Anagnostou](#), [S. Guerard](#), [D. Mitton](#), [V. Migonney](#). *A new bioactive artificial ligament for intracapsular stabilization of cranial cruciate ligament (Crcl) deficiency: a 3 and 12 months study in sheep*. 21<sup>th</sup> Annual Scientific Meeting ECVS (European College of Veterinary Surgery), Barcelona, Spain, 2012 - Presented in Oral Poster Session

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57. [Funck-Brentano](#), [Thomas](#); [Ostertag](#), [Agnes](#); [Debiais](#), [Francoise](#); [Fardellone](#), [Patrice](#); [Gayet](#), [Louis-Etienne](#); [Mertl](#), [Patrice](#); [Nizard](#), [Remy](#); [Orcel](#), [Philippe](#); [Cohen-Solal](#), [Martine](#); *Incidence of subtrochanteric and femoral shaft fractures in 3 French centers*; Annual Meeting of the American-Society-for-Bone-and-Mineral-Research Location: Baltimore, MD Date: OCT 04-07, 2013; Journal of Bone and Mineral Research Volume: 28 Published: 2013

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## 2015

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63. Cermolacce A, Decambron A, Viateau V *Surgical treatment of a grade IV lateral patellar luxation associated with severe hind limb deformity in a 8-weeks old dog using an antirotational absorbable suture method*. 25thAnnual meeting of the European College of Veterinary Surgeons, Edinburgh, July 2017.
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### 3.3.3. Theme 3

## 2012

1. El Hage, Rawad; Rocher, Emilie; Chappard, Christine; Portier, Hugues; Rochefort, Gael Y.; Benhamou, Claude-Laurent; *Bone mass, hip structure analysis and trabecular bone microarchitecture at the calcaneus in obese and normal-weight children*; IOF Regionals 2nd Middle East and Africa Osteoporosis Meeting / 6th Pan Arab Osteoporosis Congress (PAOC) Location: JORDAN Date: SEP 27-OCT 01, 2012; Osteoporosis International Volume: 23 Pages: 681-681 Published: 2012
2. El Hage, Rawad; Rocher, Emilie; Chappard, Christine; Portier, Hugues; Rochefort, Gael Y.; Benhamou, Claude-Laurent; *Effect of a 6-month physical training program on hip structure analysis in obese children*; IOF Regionals 2nd Middle East and Africa Osteoporosis Meeting / 6th Pan Arab Osteoporosis Congress (PAOC) Location: JORDAN Date: SEP 27-OCT 01, 2012; Osteoporosis International Volume: 23 Pages: 686-686 Published: 2012
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### 3.4. Communications orales

#### 3.4.1. Theme 1

### Experimental research

## 2012

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23. [M. Manassero](#), [V. Viateau](#), [A. Decambron](#), [M. Deschepper](#), [M. Bensidhoum](#), [D. Logeart](#), [H. Petite](#) . *Comparison of orthotopic and ectopic sites in mice for bone tissue-engineering pur-pose*. Tissue Engineering and Regenerative Medicine International Society Asia-Pacific (TERMIS-AP) , Shanghai&Wuzhen, China, October 16-20, 2013.
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35. E. Budyn, P. Tauc, M. Bensidhoum, H. Petite and E. Deprez, *Back to life: fresh osteocytes spreading their processes for optimum mechanotransduction near microdamage in dead bone*, Medical Engineering Centres Annual Meeting and Bioengineering14, Vol. 1, p. 63, MECbioeng14 Imperial College London, 2014.
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40. V Migonney, C Vaquette, V Viateau. *The effect of poly(styrene sodium sulfonate) grafting on PET LARS ligaments on in vitro mineralisation and in vivo bone tissue integration*. European Orthopaedic Research Society, Nantes, France, July 2-4, 2014.
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61. Decambron, A. Fournet, M. 41.H. Felgueiras, V. Viateau, M. Manassero, M. Evans, V. Migonney. *The role of adhesive proteins on the host response to bioactive polymers and surfaces.* IBTN, Rio de Janeiro, Bra-zil, 2015
62. H. Felgueiras, V. Viateau, M. Manassero, M. Evans, V. Migonney. *The role of adhesive proteins on the host response to bioactive polymers and surfaces.* IBTN, Rio de Janeiro, Brazil, 2015
63. A. Decambron, M. Manassero, M. Bensidhoum, H. Petite, V. Viateau. *Influence de la vitesse de resorption d'un produit d'ingénierie tissulaire sur la cicatrisation de grands défauts osseux chez la brebis.* Colloque BIOMAT, Ile de Ré, France, 2015
64. Evelyne Poli, Chantal Damia, Vincent Chaleix, Vincent Sol, David Marchat, Nathalie Douard, Delphine Logeart, Joël Brie, Eric Champion *Elaboration of osteoinductive phosphocalcic bioceramics for bone tissue engineering.* 14th International Conference and Exhibition of the European Ceramic Society, EcerS 2015, Toleda (Espagne), 23-25 Juin 2015 (Oral presentation)

## 2016

65. Boisselier J, Paquet J, Larreta-Garde V, Lefebvre E, Gand A, Barbosa M, Logeart-Avramoglou D, Petite H and Pauthe E: *Engineering of a glucose delivery system based-hydrogel composite scaffold for enhancing mesenchymal stem cells survival* - 10th World Biomaterials Congress, Montréal, Canada, 17 May - 22 May, 2016 (Oral presentation)
66. Moya A, Larochette N, Paquet J, Deschepper M, Bensidhoum M, Petite H, Logeart-Avramoglou D. *Quiescence preconditioning of human mesenchymal stromal cells (hMSC) enhances their long term survival under ischemia.* Journée scientifique médecine Paris Diderot - 8 avril 2016
67. E Budyn, M Bensidhoum, S Sanders, W Haik, R Antier, F Mainnemare, T Marsan, Ew Schmidt, P Tauc; H.Petite *BONE HEALING IN LIVE ALLOGRAFT BIOLOGICAL SYSTEMS* 24th International Congress of Theoretical and Applied Mechanics (ICTAM 2016) August 20 to 26, 2016 in Montréal, Québec, Canada
68. Decambron, A. Fournet, M. Manassero, M. Bensidhoum, D. Logeart, H. Petite, V. Viateau. *Enhancement of bone healing using low dose RH-BMP-2 and autologous mesenchymal stem cells onto coral scaffold in critical-size*

- bone defect in a sheep model*. 24th Annual Scientific Meeting ORS (European Orthopaedic Research Society), Bologna, Italy, 2016
69. A. Ciani, M. Guizar-Sicairos, A. Diaz, M. Holler, S. Pallu, Z. Achiou, R. Jennane, H. Toumi, E. Lespessailles, C. M. Kewish. *Segmentation of nanotomographic cortical bone images for quantitative characterization of the osteocyte lacuno-canalicular network* AIP Conference Proceedings 1696, 020040 (2016)
  70. Logeart-Avramoglou D : *Strategies to improve the survival of implanted mesenchymal stem cells in tissue engineered constructs* Congrès de la section 28, "Pharmacologie, bio-ingénierie, imagerie, biotechnologie" du CNRS; Bordeaux, 2-3 Juin 2016. (Oral presentation)
  71. A. Decambron, A. Fournet, M. Manassero, M. Bensedhoum, D. Logeart, F. Sailhan, H. Petite, V. Viateau. *Low-dose Rbmp-2 Onto Coral Scaffold Mixed with Autologous MSCs-seeded Coral-based Tissue Engineering Constructs to Repair Large Segmental Bone Defects*. TERMIS-AP annual congress (Asia Pacific Chapter of the Tissue Engineering and Regenerative Medicine International Society), Taipei, Taiwan, (3-6 Septembre 2016).
  72. M. Manassero, V. Viateau, A. Decambron, M. Bensedhoum, D. Logeart, H. Petite. *Osteogenic Ability and Cell Survival of Mesenchymal Stem Cells Seeded on Coral Scaffolds and Implanted in Either Ectopic or Orthotopic Sites in Mice*. TERMIS-AP annual congress (Asia Pacific Chapter of the Tissue Engineering and Regenerative Medicine International Society), Taipei, Taiwan, (3-6 Septembre 2016).
  73. Pierre Becquart, Magali Cruel, Thierry Hoc, Rena Bizios, Delphine Logeart-Avramoglou, Hervé Petite & Morad Bensedhoum. *Human mesenchymal stem cell responses to hydrostatic pressure and shear stress*. TERMIS-AP annual congress (Asia Pacific Chapter of the Tissue Engineering and Regenerative Medicine International Society), Taipei, Taiwan, (3-6 Septembre 2016).
  74. A Moya, N Larochette, J Paquet, M Deschepper, M Bensedhoum, H Petite, D Logeart-Avramoglou. *Quiescent Preconditioned Human Multipotent Stromal Cells Adopt a Metabolic Profile Favorable for Enhanced Survival Under Ischemia*. TERMIS-AP annual congress (Asia Pacific Chapter of the Tissue Engineering and Regenerative Medicine International Society), Taipei, Taiwan, (3-6 Septembre 2016).
  75. Chantal Damia, Evelyne Poli, Vincent Chaleix, Vincent Sol, David Marchat, Nathalie Douard, Nathanael Larochette, Delphine Logeart-Avramoglou, Joël Brie, Eric Champion *Functionalisation of phosphocalcic bioceramics for bone tissue engineering*. E-MRS 2016 Fall Meeting - Warsaw, Poland, September 19-22, 2016 (Oral presentation).
  76. A Moya, N Larochette, M Bourguignon, H El-Hafci, E Potier, H Petite, D Logeart-Avramoglou. *Superior osteogenic potential of adipogenic pre-differentiated human bone marrow derived multipotent stromal cells for bone tissue engineering* - 2nd Workshop of Regenerative Medicine in Bordeaux, 24-26 Octobre- Bordeaux- France (Oral presentation)
  77. Pierre Becquart, Magali Cruel, Thierry Hoc, Rena Bizios, Delphine Logeart-Avramoglou, Hervé Petite & Morad Bensedhoum. *Human mesenchymal stem cell responses to hydrostatic pressure and shear stress*. Bordeaux: 2nd Workshop of Regenerative Medicine in Bordeaux, 24-26 Octobre- Bordeaux- France (Oral presentation)

### 3.4.2. Theme 2

#### Experimental research

1. Nich C.: *Innate immune sensors in joint diseases*, 8th Combined Meeting of Orthopaedics Research Societies, sous la direction du Pr Takagi, Venise, Italie, Octobre 2013

#### Clinical research

#### 2012

2. V. Viateau, A. Decambron, M. Manassero, P. Fayolle. *Clinical diagnosis of bone disease, when is a bone biopsy needed*. Annual Scientific Meeting SFAPV (Société Française d'Anatomie Pathologique Vétérinaire), Paris, France, 2012
3. M. Manassero, A. Decambron, D. Leperlier, P. Moissonnier, R. Vallefucio, AS. Bedu-Leperlier, C. Maurey. *Traitement des obstructions urétérales par la mise en place de stents pyélico-vésicaux chez 7 chats*. AFVAC 2012 congress, Paris, France, 2012
4. A. Decambron, D. Leperlier, M. Manassero, P. de Fornel-Thibaud *Un cas d'utilisation de la scintigraphie osseuse dans la démarche diagnostique d'une boiterie occulte chez le chien*. AFVAC 2012 congress, Paris, France, 2012
5. R. Vallefucio, AS Bedu-Leperlier, M. Manassero, V. Viateau, P. Moissonnier. *Evaluation of lateral safe implantation corridors in feline thoracolumbar vertebrae. Computed tomography and clinical studies in eight cats*. 21th Annual Scientific Meeting ECVS (European College of Veterinary Surgery), Barcelona, Spain, 2012
6. F. Vilaplana Grosso, D. Leperlier, AS. Bedu-Leperlier, M. Manassero, F. Mir, C. Maurey. *Résolution d'une obstruction urétrale maligne avec un stent urétral*. GEMI congress (Groupe d'Etude en Médecine Interne), Avignon, France, 2012

#### 2013

7. **Nich C.**: *Forum EFORT: les fractures du pilon tibial*, sous la direction du Professeur T. Bégué, Paris, Novembre 2013
8. L. Durant, **M. Manassero**, **A. Decambron**, R. Vallefucio, P. Fayolle, P. Moissonnier, L. Desquibet, **V. Viateau**. *Complications périopératoires après entérotomie et entérectomies: étude rétrospective sur 111 chats*. AFVAC 2013 congress, Nantes, France, 2013

## 2014

9. C. Maurey, A. Baril, C. Chery, G. Benchekroun, **A. Decambron**, **M. Manassero**. *Calculs urétéraux chez le chat: analyse restrospective de 83 cas (2005-2013)- Epidémiologie, description Clinique et suivi à court terme*. AFVAC 2014 congress, Paris, France, 2014
10. C. Maurey, A. Baril, C. Chery, G. Benchekroun, **A. Decambron**, **M. Manassero**. *Calculs urétéraux chez le chat: analyse restrospective de 83 cas (2005-2013)- Epidémiologie, description Clinique et suivi à court terme*. AFVAC 2014 congress, Paris, France, 2014
11. **A. Decambron**, **M. Manassero**, G. Decambron, M. Manou, V. Migonney, **V. Viateau**. *Intraarticular ligament remplacement with the LARS ACTM artificial ligament in dogs using a non-dedicated drill-guide under arthroscopic guidance - a cadaveric study*. Annual Scientific Meeting ACVS (American College of Veterinary Surgery), San Diego USA, 2014
12. P. Moissonnier, D. Sfez, R. Vallefucio, **M. Manassero**, **A. Decambron**, A. Jeandel, L. Zilberstein. *Is extradural pressure an indicator of value in thoracolumbar disk disease? A preliminary prospective study in clinical cases*. 23rd Annual Scientific Meeting ECVS (European College of Veterinary Surgery), Copenhagen, Denmark, 2014
13. A. Baril, G. Benchekroun, **M. Manassero**, C. Chery, **A. Decambron**, C. Maurey. *Ureteral calculi in cats: retrospective analysis of signalment, clinical data, medical management and short-term outcome in 83 cases (2005 - 2013)*. 24th ECVIM-CA Congress (European College of Veterinary Medicine), Mayence, Germany, 2014
14. G. Ruiz, **A. Decambron**, **M. Manassero**. *Sténose du nasopharynx traitée par dilatation par ballonnet chez un chat*. GEMI congress (Groupe d'Etude en Medecine Interne), Avignon, France, 2014

## 2015

15. **Nich C.**: *Résultats à plus de 10 ans des réparations des ruptures de la coiffe des rotateurs*, Symposium, SOFCOT, Paris, Novembre 2015
16. **V. Viateau**, **M. Manassero**, D. Mitton, V. Migonney, S. Guérard. *Time-dependant modification of the mechanical characteristics of the contralateral stifle after CrCl surgery*. 24th Annual Scientific Meeting ECVS (European College of Veterinary Surgery), Berlin, Germany, 2015
17. **A. Decambron**, **M. Manassero**, E. Reyes-Gomes, C. Médaille, JL Thibaud, A. Fournet, P. de Fornel, **V. Viateau**. *Bone hemophilic pseudotumor in a German Shepherd dog: First description of a rare and challenging complication of hemophilia* A 24th Annual Scientific Meeting ECVS (European College of Veterinary Surgery), Berlin, Germany, 2015

## 2016

18. **V. Viateau**, **A. Decambron**, P. Garnier, **M. Manassero**. *Needle arthroscopy for elbow joint exploration in dogs. A cadaveric study*. 25th Annual Scientific Meeting ECVS (European College of Veterinary Surgery), Lisbon, Portugal, 2016
19. **M. Manassero**, **A. Decambron**, A. Fournet, M. Campos, G. Benchekroun, C. Maurey. *Traitement des obstructions urétérales par dérivations pyélo-vésicales extra-urétérales: résultats et complications chez 28 chats*. AFVAC 2016 congress, Lille, France, 2016
20. A. Lamoureux, **M. Manassero**, H. Hahn, A. Fournet, M. Campos. *Un cas d'adénome parathyroïdien kystique à l'origine d'une hyperparathyroïdie primaire chez un chat*. AFVAC 2016 congress, Lille, France, 2016
21. D. Dullin, **M. Manassero**, **A. Decambron**, C. Maurey. *Évaluation de la présence de pyélonéphrite bactérienne lors d'obstruction urétérale chez le chat : étude de 45 cas*. AFVAC 2016 congress, Lille, France, 2016
22. **A. Decambron**, **M. Manassero**, J. Thibaud, P. de Fornel, S. Perrot, L. La Rosa, E. Reyes-Gomez, C. Médaille, **V. Viateau**. *Première description chez le chien d'une complication rare de l'hémophilie : la pseudotumeur hémophilique osseuse*. AFVAC 2016 congress, Lille, France, 2016
23. A. Fournet, J. Boursier, S. Corbeau, **A. Decambron**, P. Fayolle, **V. Viateau**, A. Bedu, D. Leperlier, **M. Manassero**. *Complications associées aux fractures olécraniennes: étude rétrospective sur 30 cas*. AFVAC 2016 congress, Lille, France, 2016
24. A. Fournet, J. Boursier, **A. Decambron**, **V. Viateau**, A. Bedu, D. Leperlier, **M. Manassero**. *Complications associated with proximal ulnar fractures (PUF) treated by either tension band fixation (TBW) or plate osteosynthesis (PO) - A retrospective study in dogs and cats - 18th Annual Scientific Meeting ECVS (European Society of Veterinary Orthopaedics and Traumatology), London, England, 2016*
25. **M. Manassero**. *L'hernie périnale chez le chien*. FranceVet, Paris, France, 2016
26. **M. Manassero**, Christelle Maurey. *Les obstructions urétérales chez le chat*. FranceVet, Paris, France, 2016
27. C Mallet, K Mazda, B Iharrebordé. *Management of Avascular Necrosis of the Femoral Head in Children with Sickle Cell Disease. Results of Non-Operative and Operative Treatments at Skeletal Maturity*. EPOS 2016 (Rome)

### 3.4.3. Theme 3

#### Experimental research

2014

1. K Engelke, **C Chappard**, T Lowitz, O Museyko, L Laouisset, **V Bousson** and **J-D Laredo**. Quantitative analysis of subchondral bone structure in knee OA at different levels of spatial resolution using clinical whole body and high resolution peripheral CT scanners. 2014 IWOAI, Reykjavik, Iceland July 9-12, 2014.

2015

2. Youssef R, **Bouhadoun H**, **Laredo JD**, **Chappard C**. *Semi-automatic compartment extraction to assess 3D bone mineral density and morphometric parameters of the subchondral bone in the tibial knee*. International conference of biomedical visualization MediVIs 21-24 July 2015, Barcelona, Spain
3. Youssef R, Kacem A, Sevestre-Ghalila S, **Chappard C**. *Graph structuring of skeleton object for its high-level exploitation*. Lecture Notes in Computer Science ICIAR International conference of image analysis 22-24 July 2015 Niagara Falls, Canada
4. **H Mezlini**, R Youssef, H Bouhadoun, E Budyn, **J D Laredo**, S Sevestre Ghalila, **C Chappard**. High resolution volume quantification of the knee joint space based on a semi-automatic segmentation of computed tomography images 22<sup>th</sup> International conference on systems signal and image processing (IWSSIP) 10-12 Sept 2015 London, Great Britain

2016

5. **Chappard, Christine**; Andre, G.; Daudon, Michel; Bazin, Dominique; Analysis of hydroxyapatite of subchondral bone in osteoarthritis of the hip by Fourier transform infrared and powder neutron diffraction methods; European Journal of Clinical Investigation 2016 Volume: 46 Pages: 112-112 Published: 2016.
6. **Gharsallah, H. Mezlini**; Youssef, R; Laredo, J. D; Sevestre-Ghalila S, **Chappard C**. The input of the 3D characterization of local variation of Joint Space width in osteoarthritis disease using High- Resolution peripheral Quantitative Computed Tomography imaging. Eur J Clin Investigation 2016 vol 46 Suppl 1: 101-104. Abst 7.08
7. **Chappard C**, André G, Daudon M, Bazin D. Analyse de l'hydroxyapatite de l'os sous-chondral dans l'arthrose de la hanche en spectroscopie infrarouge par transformée de Fourier et par diffraction neutronique. 18<sup>ème</sup> J F T B M 2016, 1-3 juin Nancy.
8. Campillo-Gimenez, L.; Frochot, V.; Bianchi A; Laredo, J-D; **Chappard C**; Combes C.; Cohen-Solal M; Liote F; Bazin, D; Daudon, M; Ea H-K; *FT-IR Analysis of calcifications of knee cartilage and fibrocartilage: presence of crystals of basic calcium phosphate and calcium pyrophosphate*; 29<sup>ème</sup> Congrès de la Société Française de Rhumatologie, 2016 Revue du Rhumatisme (Edition Francaise) Volume: 83 Pages: A129-A130

2017

9. C Nguyen, I Boutron, G Baron, K Sanchez, C Palazzo, R Benchimol, G Paris, E James-Belin, M-M Lefèvre-Colau, J Beaudreuil, **J-D Laredo**, A Béra-Louville, A Cotten, J-L Drapé, A Feydy, P Ravaud, F Rannou, S Poiraudou. *Intradiscal glucocorticoid injection for patients with chronic low back pain associated with active discopathy: a randomized trial*. Annals of the Rheumatic Diseases Jun 2017, 76 (Suppl 2) 170; DOI: 10.1136/annrheumdis-2017-eular.7062
10. **H Mezlini-Gharsallah**, R Youssef , **JD Laredo**, **C Chappard**. *Three-Dimensional Mapping of the Joint Space for Knee Osteoarthritis Based on High-Resolution Computed Tomography: A Multiscale Analysis* 21st International Bone Densitometry Workshop, Banz, Germany, 26<sup>th</sup> june -30<sup>th</sup> june 2017
11. **G Mitton**, H Bouhadoun, E Budyn, K Engelke, **J D Laredo**, **C Chappard**. *A Multiscale Analysis of tibial subchondral bone micro-architecture based on cone beam computed tomography*. 21st International Bone Densitometry Workshop, Banz, Germany, 26<sup>th</sup> june -30<sup>th</sup> june 2017
12. F Sannmann, **C Chappard**, **JD Laredo**, K Engelke. *BMD and structural analysis of CT images of OA knees comparing subchondral bone under meniscus and not under meniscus*. 21st International Bone Densitometry Workshop, Banz, Germany, 26<sup>th</sup> june -30<sup>th</sup> june 2017

#### Clinical research

13. J.-D. Laredo, A. Wyler, C. Alvarez, M. Aout, M. Lequesne, E. Vicaut Value of bilateral standing oblique radiographs (“FAUX profil de lequesne“) in the diagnosis of hip osteoarthritis. Annals of the Rheumatic Diseases Jun 2013, 71 (Suppl 3) 64-65; DOI: 10.1136/annrheumdis-2012-eular.1718
14. E Ferrero, M Alison, G Sebag, K Mazda, B Ilharreborde. Ultra low dose imaging for the follow-up of idiopathic scoliosis. EPOS 2015 (Marseille)
15. M Alison, E Ferrero, A Tanase, A Rega, K Mazda, B Ilharreborde, G Sebag. Ultra low-dose imaging for the follow-up of idiopathic scoliosis: how low is reasonably achievable with new slot-scan technology? Radiological Society of North America (Chicago 2014)
16. T. Lowitz, O. Museyko, L. Laouisset, J.-D. Laredo, V.D. Bousson, W.A. Kalender, K. Engelke. QCT indicates locally increased bone mineral density (BMD) in regions of bone marrow lesions (BML) segmented on MR images. Annals of the Rheumatic Diseases Jun 2013, 71 (Suppl 3) 134-135