

SCIENTIFIC PUBLICATIONS

- ✚ BIGNON A., CHEVALIER J., FANTOZZI G. *Effect of ball milling on the processing of bone substitutes with calcium phosphate powders*. Journal of Biomedical Material Research, Applied Biomaterials, 2002, 63, 5 : 619-626.
- ✚ CHOUTEAU J., BIGNON A., CHAVASSIEUX P., CHEVALIER J., MELIN M., FANTOZZI G., BOIVIN G., HARTMANN D., CARRET JP. *Culture cellulaire d'ostéoblastes et de fibroblastes sur substitut osseux poreux en phosphate de calcium*. Revue de chirurgie orthopédique, 2003, vol. 89, p. 44-52.
- ✚ BIGNON A., CHOUTEAU J., CHEVALIER J., FANTOZZI G., CARRET J-P., CHAVASSIEUX P., BOIVIN G., MELIN M., HARTMANN D. *Effect of micro and macroporosity of bone substitutes on their mechanical properties and cellular response*. Journal of material science : materials in medicine, 2003, vol. 14, p. 1089-1097.
- ✚ LAURENT F., BIGNON A., HARTMANN D., GOLDNADEL J., CHEVALIER J., FANTOZZI G., VIGUIER E., ROGER T., BOIVIN G. *A new concept of gentamicin loaded HAP/TCP bone substitute for prophylactic action - in vitro release validation*. Journal of material sciences: materials in medicine, in press
- ✚ VIGUIER E., BIGNON A., LAURENT F., GOEHRIG D., BOIVIN G., CHEVALIER J. *A new concept of gentamicin loaded HAP/TCP bone substitute for prophylactic action - in vivo pharmacokinetic study*, Mater Sci: Mater Med (2011) 22:879–886

PATENTS

- ✚ WO2006013244: METHOD FOR COATING AT LEAST A PART OF A MEDICAL PROSTHESIS SURFACE WITH ONE OR SEVERAL ANTIBACTERIAL AGENTS (2006)
- ✚ FR2993183 : COMPOSITION OF INJECTABLE BONE SUBSTITUTE (2014)

STANDARDS (Project leader)

- ✚ ISO 13175-3 (2012): Implants for surgery - Calcium phosphates - Part 3: Hydroxyapatite and beta-tricalcium phosphate bone substitutes
- ✚ ISO 13779-2 (2018): Implants for surgery - Hydroxyapatite - Part 2: Coatings of hydroxyapatite
- ✚ ISO 13779-4 (2018): Implants for surgery - Hydroxyapatite - Part 4: Determination of coating adhesion strength
- ✚ ISO 13779-6 (2015) : Implants for surgery - Hydroxyapatite - Part 6: Powders
- ✚ ISO 13179-1 (2014): Implants for surgery - Plasma-sprayed unalloyed titanium coatings on metallic surgical implants - Part 1: General requirements
- ✚ ISO 19227 (2018): Implants for surgery - Cleanliness of orthopedic implants - General requirements

STANDARDS (Active participation as an expert)

- ✚ ISO 10993-18 (2020): Biological evaluation of medical devices — Part 18: Chemical characterization of medical device materials within a risk management process
- ✚ ISO 10993-17 (under revision): Biological evaluation of medical devices — Part 17: Establishment of allowable limits for leachable substances
- ✚ ISO 10993-12 (under revision): Biological evaluation of medical devices — Part 12: Sample preparation and reference materials