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### 2020

#### **Preclinical evidence for an effective therapeutic activity of FL118, a novel survivin inhibitor, in patients with relapsed/refractory multiple myeloma.**

Holthof LC, Van Der Horst HJ, Van Hal-Van Veen SE, Ruiter RWJ, Li F, Buijze M, Andersen MN, Yuan H, De Bruijn J, Van De Donk NWCJ, Lokhorst HM, Zweegman S, Groen RWJ and Mutis T. *Haematologica* vol. 105, (2) E80-E83. *Ferrata Storti Foundation*.

#### **Macrophage polarization plays roles in bone formation instructed by calcium phosphate ceramics.**

Li M, Guo X, Qi W, Wu Z, de Bruijn JD, Xiao Y, Bao C and Yuan H. *Journal of Materials Chemistry B. Royal Society of Chemistry*.

#### **MagnetOs, Vitoss, and Novabone in a Multi-endpoint Study of Posterolateral Fusion: A True Fusion or Not?**

van Dijk LA, Barrère-de Groot F, Rosenberg AJWP, Pelletier M, Christou C, de Bruijn JD and Walsh WR. *Clinical Spine Surgery. Lippincott, Williams & Wilkins*.

### 2019

#### **Bone Morphogenetic Protein 4 Gene Therapy in Mice Inhibits Myeloma Tumor Growth, But Has a Negative Impact on Bone.**

Westhrin M, Holien T, Zahoor M, Moen SH, Buene G, Stårdal B, Hella H, Yuan H, de Bruijn JD, Martens A, Groen RW, Bosch F, Smith U, Sponaas A-M, Sundan A and Standal T. *Jbmr Plus* vol. 4, (1) e10247-e10247. *Wiley*.

#### **Preparing for cell culture scale-out: establishing parity of bioreactor- and flask-expanded mesenchymal stromal cell cultures.**

Das R, Roosloot R, van Pel M, Schepers K, Driessen M, Fibbe WE, de Bruijn JD and Roelofs H. *J Transl Med* vol. 17, (1) 241-241.

#### **Combined CD28 and 4-1BB Costimulation Potentiates Affinity-tuned Chimeric Antigen Receptor-engineered T Cells.**

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#### **CD38 as a therapeutic target for adult acute myeloid leukemia and T-cell acute lymphoblastic leukemia.**

Naik J, Themeli M, de Jong-Korlaar R, Ruiter RWJ, Poddighe PJ, Yuan H, de Bruijn JD, Ossenkoppele GJ, Zweegman S, Smit L, Mutis T, Martens ACM, van de Donk NWCJ and Groen RWJ. *Haematologica* vol. 104, (3) e100-e103.

#### **Accelerated bone formation by biphasic calcium phosphate with a novel sub-micron surface topography.**

Duan R, van Dijk LA, Barbieri D, de Groot F, Yuan H and de Bruijn JD. *Eur Cell Mater* vol. 37, 60-73.

#### **Efficacy of a synthetic calcium phosphate with submicron surface topography as autograft extender in lapine posterolateral spinal fusion.**

van Dijk LA, Barbieri D, Barrère-de Groot F, Yuan H, Oliver R, Christou C, Walsh WR and de Bruijn JD. *J Biomed Mater Res B Appl Biomater*.

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**Biphasic calcium phosphate with submicron surface topography in an Ovine model of instrumented posterolateral spinal fusion.**

van Dijk LA, Duan R, Luo X, Barbieri D, Pelletier M, Christou C, Rosenberg AJWP, Yuan H, BarrÃre-de Groot F, Walsh WR and de Bruijn JD. *Jor Spine vol. 1, (4) e1039-e1039.*

**Modulating Bone Regeneration in Rabbit Condyle Defects with Three Surface-Structured Tricalcium Phosphate Ceramics.**

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**Genetically engineered mesenchymal stromal cells produce IL-3 and TPO to further improve human scaffold-based xenograft models.**

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**A Rational Strategy for Reducing On-Target Off-Tumor Effects of CD38-Chimeric Antigen Receptors by Affinity Optimization.**

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**Topography of calcium phosphate ceramics regulates primary cilia length and TGF receptor recruitment associated with osteogenesis.**

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Barbieri D, Yuan H, IsmailoÅlu AS and de Bruijn JD. *Tissue Eng Part A vol. 23, (23-24) 1310-1320.*

**Cells responding to surface structure of calcium phosphate ceramics for bone regeneration.**

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**Establishing human leukemia xenograft mouse models by implanting human bone marrow-2 like scaffold-based niches.**

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**Sepantronium bromide (YM155) improves daratumumab-mediated cellular lysis of multiple myeloma cells by abrogation of bone marrow stromal cell-induced resistance.**

de Haart SJ, Holthof L, Noort WA, Minnema MC, Emmelot ME, Aarts-Riemens T, Doshi P, Sasser K, Yuan H, de Bruijn J, Martens AC, van de Donk NW, Lokhorst HM, Groen RW and Mutis T. *Haematologica vol. 101, (8) e339-e342.*

**COST-EFFICIENT, CLOSED-SYSTEM MSC CULTURE TO THERAPEUTICALLY RELEVANT QUANTITIES.**

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**ONE-STEP BONE MARROW-DERIVED MSC CULTURE USING NOVEL BIOREACTOR TECHNOLOGY.**

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**Modeling BCR-ABL and MLL-AF9 leukemia in a human bone marrow-like scaffold-based xenograft model.**

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**Pre-clinical evaluation of CD38 chimeric antigen receptor engineered T cells for the treatment of multiple myeloma.**

Drent E, Groen RWJ, Noort WA, Themeli M, van Bueren JJJ, Parren PWHI, Kuball J, Sebestyen Z, Yuan H, de Bruijn J, van de Donk NWCJ, Martens ACM, Lokhorst HM and Mutis T. *Haematologica* vol. 101, (5) 616-625.

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**International Society for Cellular Therapy perspective on immune functional assays for mesenchymal stromal cells as potency release criterion for advanced phase clinical trials.**

Galipeau J, Krampera M, Barrett J, Dazzi F, Deans RJ, DeBruijn J, Dominici M, Fibbe WE, Gee AP, Gimble JM, Hematti P, Koh MBC, LeBlanc K, Martin I, McNiece IK, Mendicino M, Oh S, Ortiz L, Phinney DG, Planat V, Shi Y, Stroncek DF, Viswanathan S, Weiss DJ and Sensebe L. *Cytotherapy* vol. 18, (2) 151-159.

**Effect of particle size on osteoinductive potential of microstructured biphasic calcium phosphate ceramic.**

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**The RAPIDOS project-European and Chinese collaborative research on biomaterials.**

Eglin D, Alini M, de Bruijn J, Gautrot J, Grijpma DW, Kamer L, Lai Y, Lu S, Peijs T, Peng J, Tang TT, Wang X, Wang X, Richards RG and Qin L. *J Orthop Translat* vol. 3, (2) 78-84.

**Microporous calcium phosphate ceramics driving osteogenesis through surface architecture.**

Zhang J, Barbieri D, Ten Hoopen H, De Bruijn JD, Van Blitterswijk CA and Yuan H. *Journal of Biomedical Materials Research - Part A* vol. 103, (3) 1188-1199.

**Influence of surface microstructure and chemistry on osteoinduction and osteoclastogenesis by biphasic calcium phosphate discs.**

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**The size of surface microstructures as an osteogenic factor in calcium phosphate ceramics.**

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**Submicron-scale surface architecture of tricalcium phosphate directs osteogenesis in vitro and in vivo.**

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**Poly(trimethylene carbonate) and biphasic calcium phosphate composites for orbital floor reconstruction: A feasibility study in sheep.**

van Leeuwen AC, Yuan H, Passanisi G, van der Meer JW, de Bruijn JD, van Kooten TG, Grijpma DW and Bos RRM. *European Cells and Materials* vol. 27, 81-97.

**Zinc in calcium phosphate mediates bone induction: In vitro and in vivo model.**

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**Microporous calcium phosphate ceramics driving osteogenesis through surface architecture.**

Zhang J, Barbieri D, ten Hoopen H, de Bruijn JD, van Blitterswijk CA and Yuan H. *Journal of Biomedical Materials Research - Part A*.

**Poly(trimethylene carbonate) and biphasic calcium phosphate composites for orbital floor reconstruction: A feasibility study in sheep.**

van Leeuwen AC, Yuan H, Passanisi G, van der Meer JW, de Bruijn JD, van Kooten TG, Grijpma DW and Bos RRM. *European Cells and Materials* vol. 27, 81-97.

**Liposomal clodronate inhibition of osteoclastogenesis and osteoinduction by submicrostructured beta-tricalcium phosphate.**

Davison NL, Gamblin AL, Layrolle P, Yuan H, de Bruijn JD and Barrère-de Groot F. *Biomaterials* vol. 35, (19) 5088-5097.

**The morphology and functions of articular chondrocytes on a honeycomb-patterned surface.**

Eniwumide JO, Tanaka M, Nagai N, Morita Y, de Bruijn J, Yamamoto S, Onodera S, Kondo E, Yasuda K and Shimomura M. *Biomed Res Int* vol. 2014,.

**Effect of particle size on osteoinductive potential of microstructured biphasic calcium phosphate ceramic.**

Wang L, Barbieri D, Zhou H, de Bruijn JD, Bao C and Yuan H. *Journal of Biomedical Materials Research - Part A. John Wiley and Sons Inc.*

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**Comparing autograft, allograft, and tricalcium phosphate ceramic in a goat instrumented posterolateral fusion model.**

Delawi D, Kruyt MC, Huipin Y, Vincken KL, De Bruijn JD, Oner FC and Dhert WJA. *Tissue Engineering - Part C: Methods* vol. 19, (11) 821-828.

**Controlling dynamic mechanical properties and degradation of composites for bone regeneration by means of filler content.**

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**Continuous and Uninterrupted Oxygen Tension Influences the Colony Formation and Oxidative Metabolism of Human Mesenchymal Stem Cells.**

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**Reconstructing the human hematopoietic niche in immunodeficient mice: Opportunities for studying primary multiple myeloma.**

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**Patterns of Amino Acid Metabolism by Proliferating Human Mesenchymal Stem Cells.**

Higuera GA, Schop D, Spitters TWGM, van Dijkhuizen-Radersma R, Bracke M, de Bruijn JD, Martens D, Karperien M, van Boxtel A and van Blitterswijk CA. *Tissue Engineering Part A* vol. 18, (5-6) 654-664.

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### **Load-bearing composite for bone regeneration.**

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### **beta-TCP Versus Autologous Bone for Repair of Alveolar Clefts in a Goat Model.**

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### **?-TCP versus autologous bone for repair of alveolar clefts in a goat model.**

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### **The metabolism of human mesenchymal stem cells during proliferation and differentiation.**

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### **Calcium phosphates and bone induction.**

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### **Influence of different polymeric gels on the ectopic bone forming ability of an osteoinductive biphasic calcium phosphate ceramic.**

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### **'Smart' biomaterials and osteoinductivity.**

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### **Use of Fluorochrome Labels in In Vivo Bone Tissue Engineering Research.**

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