Publications

PUBLISHED PAPERS – REFEREED JOURNALS:

1. C. Knabe, C. Große-Siestrup, H. Becker, A. Pustelnik, G. Gahl. „A new method to evaluate the CAPD-catheter-exit and other percutaneous devices," Int. J. Artif. Organs 1991; 14: 83-6.
2. C. Knabe. „The use of an electronic probe for recording periimplant pocket depth. Part I," „Zur Messung der periimplantären Sulkustiefe mit einer elektronischen Parodontalsonde - Vorläufige Mitteilung" „Deutsche Zahnärztliche Zeitschrift" German Dental Journal 1997; 52: 33-35.
3. C. Knabe, K. U. Schendel, G. K. Siebert. „Rehabilitation of patients with craniomandibular disorders using implant-supported titanium prostheses- A clinical concept. „Rehabilitation des funktionsgestörten Patienten mit implantatgetragenem Zahnersatz aus Titan - Ein klinisches Konzept „Zeitschrift für Zahnärztliche Implantologie" German Journal of Oral Implantology 1997; 13: 27-38.
4. C. Knabe, K.U. Schendel, "The use of implant-supported titanium prostheses for treatment of periodontally compromised patients including functional and orthodontic therapy - A report of two cases." Clinical Oral Implants Research 1997; 8: 332-338.
5. C. Knabe. "The use of an electronic probe for recording periimplant pockt depth. Part II." "Einsatz einer computergesteuerten Parodontalsonde zur Messung der periimplantären Sulkustiefe - Erster Erfahrungsbericht." Zahnärztliche Welt Reform 1998; Nr. 1/2, 14-19.
6. C. Knabe, P. Kram. "Dental care for institutionalized geriatric patients in Germany." Journal of Oral Rehabilitation 1997; 24: 909-912.
7. C. Knabe, C. Große-Siestrup, A. Hunder, A. Ziemann. "A computer assisted in vitro biomaterial test for percutaneous devices using human keratinocyte-cultures." Journal of Material Science. Materials in Medicine 8 (1997) 577-582.
8. C. Knabe, W. Ostapowicz, R. Radlanski, R. Gildenhaar, G. Berger, R. Fitzner, U. Gross. "Morphological evaluation of osteoblasts cultured on different calcium phosphates." Biomaterials 18 (1997), 1112-1120.
9. C. Knabe, B. Hoffmeister. "The use of implant-supported ceramo-metal titanium prostheses for restorative treatment following sinus-lift and augmentation procedures." International Journal of Oral & Maxillofacial Implants 13 (1998), 102-108.
10. C. Knabe, R. Gildenhaar, G. Berger, W. Ostapowicz, R. Fitzner, R. Radlanski, U. Gross. "In vitro investigation of novel calcium phosphates using osteogenic cultures." Journal of Materials Science. Materials in Medicine 9, Number 6 (1998), 337-345 (Front cover photograph).
11. C. Knabe, C. Grosse-Siestrup, U. Gross. "Histologic evaluation of a natural permanent percutaneous structure and clinical percutaneous devices." Biomaterials. 1999; 20(6):503-10.
12. C. Knabe, F.C.M. Driessens, J.A. Planell, R. Gildenhaar, G. Berger, D. Reif, R. Fitzner, R.J. Radlanski, U. Gross. "Evaluation of calcium phosphates and experimental calcium phosphate bone cements using osteogenic cultures." J Biomed Mater Res. 2000;52(3):498-508.
13. A. Moormann, L. Wehnert, W.B. Freesmeyer, C. Knabe, R.J. Radlanski. "Bond strength of titanium-ceramic bonding after thermocyling: the effect of cycling frequency." "Haftfestigkeitsverhalten des konventionellen Titan-Keramik-Verbunds in Abhängigkeit von der Anzahl der Temperaturwechseln im Thermocyclingverfahren", German Dental Journal „Dtsch Zahnärztl Z" 55 (2000) 34-37.
14. C. Knabe, F. Klar, R. Fitzner, R.J. Radlanski, U. Gross. "In vitro investigation of titanium and hydroxyapatite dental implant surfaces using osteogenic cultures." Biomaterials, 2002,23(15):3235-45.
15. H. Zreiqat, C.R. Howlett , A. Zannettino, P. Evans, G. Schulze-Tanzil, C. Knabe, M. Shakibaei. "Mechanisms of magnesium-stimulated adhesion of osteoblastic cells to commonly used orthopaedic implants." J Biomed Mater Res. 2002 Nov. 62(2):175-84.
16. C. Knabe, B. Hoffmeister. "Implant-supported titanium prostheses following augmentation procedures. A clinical report." Australian Dental Journal 2003, 48: 55-60.
17. C. Knabe, G. Berger, R. Gildenhaar, C.R. Howlett, B. Markovic, H. Zreiqat. "The Functional Expression of Human Bone-derived Cells Grown on Rapidly Resorbable Calcium Phosphate Ceramics." Biomaterials 2004, 25;335-344.
18. C. Knabe, G. Berger, R. Gildenhaar, J. Meyer, C.R. Howlett, B. Markovic, H. Zreiqat. "The Effect of Rapidly Resorbable Calcium Phosphates and a Calcium Phosphate Bone Cement on the Expression of Bone-Related Genes and Proteins in vitro." J Biomed Mater Res 2004;69A:145-154.
19. C. Knabe, G. Berger, R. Gildenhaar, F. Klar, H. Zreiqat. The Modulation of Osteogenesis in Vitro by Calcium Titanium Phosphate Coatings. Biomaterials 2004, Special Issue: 7th World Biomaterials Congress (invited publication): Biomaterials 2004;25:4911-4919.

20. M. Vogel, Ch. Voigt, C. Knabe, R.J. Radlanski, U.M. Gross, C.M. Müller-Mai. “The role of multinuclear giant cells in the degradation of Bioglass particles in rabbits.” J Biomed Mater Res. 2004;70A:370-379.
21. C. Knabe, C.R. Howlett, F. Klar, H. Zreiqat.“ The effect of different titanium and hydroxyapatite-coated dental implant surfaces on phenotypic expression of human bone-derived cells” J Biomed Mater Res. 2004;71A: 98–107.
22. C. Knabe, M. Stiller, G. Berger, D. Reif, R. Gildenhaar, C.R. Howlett, H. Zreiqat. “The Effect of Bioactive Glass Ceramics on the Expression of Bone-Related Genes and Proteins in vitro.” Clinical Oral Implants Research 2005;16:119-27.
23. H. Zreiqat, S.M Valenzuela, B.B. Ben Nissan, R. Roest, C. Knabe, R.J. Radlanski, H. Renz, P.J. Evans. “The effect of surface chemistry modification of titanium alloy on signalling pathways in human osteoblasts.” Biomaterials 2005;26:7579-86.
24. C. Knabe, S. Nicklin, W. Yan, W.R. Walsh, R.J. Radlanski, U. Gross, B. Hoffmeister. “Growth Factor Expression Following Clinical Mandibular Distraction Osteogenesis in Humans and its comparison with existing animal studies.” J Craniomaxillofac Surg. 2005;33:361-369.
25. C. Knabe, B. Kraska, Ch. Koch, U. Gross, H. Zreiqat, M. Stiller. „A novel method for immunohistochemical detection of osteogenic markers in undecalcified sawed sections of bone.” Biotech Histochem 2006, 81:31-39.
26. R. Zehbe, U. Gross. C. Knabe, R.J. Radlanski, H. Schubert. „ Anodic cell-protein deposition on inverse inkjet printed micro structured gold surfaces.” Biosens Bioelectron 2007;22:1493-500.
27. R. Gildenhaar, G. Berger, E. Lehmann, M. Stiller, Ch. Koch, P. Ducheyne, A. Rack, H. Seligmann, S. Jonscher, C. Knabe. “A comparative study of the biogradability of calcium-alkali-orthophosphate ceramics in vitro and in vivo.” Key Engineering Materials 2007;330-332:63-66.
28. C. Knabe, A. Houshmand, G. Berger, P. Ducheyne, R. Gildenhaar, M. Stiller. “Effect of rapidly resorbable bone substitute materials on the temporal expression of the osteoblastic phenotype in vitro.” J Biomed Mater Res A. 2008 Mar 15;84(4):856-68.
29. W. Österle, D. Klaffke, M. Griepentrog, U. Gross, I. Kranz, Ch. Knabe. „ Potential of wear resistant coatings on Ti–6Al–4V for artificial hip joint bearing surfaces.“ Wear 2008;264:505–517.
30. R. Gildenhaar, G. Berger, E. Lehmann, C. Knabe. Development of Alkali Containing Calcium Phosphate Cements. Key Engineering Materials 2008;361-363:331-334.
31. C. Knabe, Ch. Koch, A. Rack, M. Stiller. Effect of β-tricalcium phosphate particles with varying porosity on osteogenesis after sinus floor augmentation in humans. Biomaterials 2008 May;29(14):2249-2258.
32. D. Jörn D, R. Gildenhaar, G. Berger, M. Stiller, C. Knabe. Behaviour of calcium alkali orthophosphate cements under simulated implantation conditions. Key Engineering Materials 2009, Volumes 396 – 398, p213-216.
33. M. Stiller, A. Rack, S. Zabler, J. Goebbels, O. Dalügge, S. Jonscher, C. Knabe. Quantification of bone tissue regeneration employing β-tricalcium phosphate by three-dimensional non-invasive synchrotron micro-tomography – a comparative examination with histomorphometry” Bone 2009; 44:619-628.
34. Rack A, Stiller M, Dalügge O, Knabe C. Quantitative Evaluation of Histomorphometry. Imaging & Microscopy 2009; 11:32-34.
35. Gemeinert M, Dörfel I, Griepentrog M, Gross U, Klaffke D, Knabe C, Kranz I, Oesterle W. Biological Response to Micron- and Nanometer-sized Particles Known as Potential Wear Products from Artificial Hip Joints Part 1: Selection and Characterization of Model Particles. J Biomed Mater Res A. 2009; 89:379-389.
36. Kranz I, Gonzalez JB, Dörfel I, Gemeinert M, Griepentrog M, Klaffke D, Knabe C, Osterle W, Gross U. Biological response to micron- and nanometer-sized particles known as potential wear products from artificial hip joints: Part II: Reaction of murine macrophages to corundum particles of different size distributions. J Biomed Mater Res A. 2009; 89:390-401.
37. Dombrowski F, Ploska U, Berger G, Gildenhaar R, Stiller M, Knabe C. Rheological investigations on degradable and fugiline calcium-alkali-phosphate-cements. Key Engineering Materials 2010 Volumes 426 – 428, p 883-886. (IF 0.39)
38. Müller-Mai M, Berger G, Stiller M, Gildenhaar R, Jörn D, Ploska U, Houshmand A, Bednarek A, Koch C, Knabe C. Evaluation of degradable bone cements for percutaneous augmentation of bone defects .Mat.-wiss. u. Werkstofftech. 2010: 41, No. 12, 1-8.
39. Dombrowski F, Marx H, Ploska U, Nicolaides D, Stiller M., Knabe C, Berger G. Solubility and ingrowth behaviour of degradable and figuline calcium alkaline phosphate cements. Key Engineering Materials 2012, Volumes 493-493, pp 387-390. (IF 0.39)
40. Gildenhaar R, Knabe C, Gomes C, Linow U, Houshmand A, Berger G. Calcium alkaline phosphate scaffolds for bone regeneration 3D-fabricated by additive manufacturing. Key Engineering Materials 2012, Volumes 493-493, pp 849-854. (IF 0.39)
41. Thöne-Mühling M, Gockel F, Knabe C, Mengel R. Periimplant pathologies in the periodontally compromised patient.” „Periimplantäre Erkrankungen im parodontal geschädigten Gebiss.“ Quintessenz 2012;63:1197-1206.

42. Lopez-Heredia MA, Gildenhaar R, Berger G, Linow U, Gomes C, Günster J, Houshmand A, Stiller M, Knabe C. Effect of stressed and unstressed cell culture environments on the survival of MC3T3 cells with calcium phosphates. Bioceram Dev Appl. 2013 Aug; S1, 002, p1-4.
43. Bhattacharyya S, Agrawal A, Knabe C, Ducheyne P. Sol-gel silica controlled release thin films for the inhibition of methicillin-resistant Staphylococcus aureus. Biomaterials. 2014 Jan;35(1):509-17. (IF 8.402)
44. Stiller M, Kluk E, Bohner M, Lopez-Heredia MA, Müller-Mai C, Knabe C. Performance of β-tricalcium phosphate granules and putty, bone grafting materials after bilateral sinus floor augmentation in humans. Biomaterials. 2014;35(10):3154-63. (IF 8.402)
45. Qu H, Knabe C, Burke M, Radin S, Garino J, Schaer T, Ducheyne P. Bactericidal micron-thin sol-gel films prevent pin tract and periprosthetic infection. Mil Med. 2014 Aug;179(8 Suppl):29-33. (IF: 0.969).
46. Knabe C, Lopez Heredia MA, Barnewitz D, Genzel A, Peters F, Hübner WD. Effect of silicon-doped calcium phosphate bone substitute materials on bone formation and osteoblastic phenotype expression in vivo. Key Engineering Materials 2014;614:31-14.
47. Lopez-Heredia MA, Barnemitz D, Genzel A, Stiller M, Peters F, Huebner W-D, Stang B, Kuhr A, Knabe C. In vivo osteogenesis assessment of a tricalcium phosphate paste and a tricalcium phosphate foam bone grafting material. Key Engineering Materials 2015, 631:426-429. (IF 0.39)
48. Mann-Gow TK, Blaivas JG, King BJ, El-Ghannam A, **Knabe C**, Lam MK, Kida M, Sikavi CS, Plante MK, Krhut J, Zvara P. Rat animal model for preclinical testing of microparticle urethral bulking agents. Int J Urol. 2015;22(4):416-20
49. Zocca A, Elsayed H, Bernardo E, Gomes CM, Lopez-Heredia MA, **Knabe C**, Colombo P, Günster J. 3D-printed silicate porous bioceramics using a non-sacrificial preceramic polymer binder. Biofabrication. 2015;7(2):025008
50. Qu H*, **Knabe C***, Radin S, Garino J, Ducheyne P. Percutaneous external fixator pins with bactericidal micron-thin sol-gel films for the prevention of pin tract infection. Biomaterials 2015;62:95-105.* authors have contributed equally. (IF 8.402)
51. Knabe C, Naumann I, Houshmand A, Lopez-Heredia MA, Stiller M, Niem Th, Wöstmann B, Hübner A, Müller-Mai Ch. The effect of titanium dental implant surfaces with varying microtopography on the temporal expression of the osteogenic phenotype in vitro. Advanced Biomaterials and Devices in Medicine 2015;2:10-22.
52. Douglas TEL, Pilarz M, Lopez-Heredia M, Brackman G, Schaubroeck D, Balcaen L, Bliznuk V, Peter Dubruel P, **Knabe C**, Vanhaecke F, Coenye C, Pamula E. Composites of gellan gum hydrogel enzymatically mineralized with calcium-zinc phosphate for bone regeneration with antibacterial activity. J Tissue Eng Regen Med. 2017 May;11(5):1610-1618. (IF:4.71).
53. Stiller M, Wiltfang J, **Knabe C**, Rohnen M. Therapie periimplantärer entzündlicher Läsionen. Nichtchirurgische und chirurgisch.rekonstruktive Therapieansätze. Der MKG-Chirurg 2016; 9(2): 76-87.
54. Smeets R*, **Knabe C***, M. Rheinnecker, A. Gröbe, M. Heiland, R. Zehbe, A. Kolk, M. Sachse, Ch. Große-Siestrup, M. Wöltje, H. Hanken. Novel silk protein barrier membranes for guided bone regeneration. J Biomed Mater Res B Appl Biomater. 2017 Nov;105(8):2603-26112, Epup 016 Oct 12. doi: 10.1002/jbm.b.33795. [Epub ahead of print], (IF 3.189). **authors contributed equally.*
55. Mann-Gow TK, King BJ, El-Ghannam A, **Knabe C**, Kida M, Dall OM, Krhut J, Zvara P. Novel Bioceramic Urethral Bulking Agents Elicit Improved Host Tissue Responses in a Rat Model, Adv Urol. 2016;2016:1282531. doi: 10.1155/2016/1282531.
56. Stiller M, Wiltfang J, **Knabe C**, Rohnen M. Therapie periimplantärer entzündlicher Läsionen. Nichtchirurgische und chirurgisch.rekonstruktive Therapieansätze. Der MKG-Chirurg 2016; 9(2): 76-87.
57. Adel-Khattab D, F. Giacomini, B. Peleska, R. Gildenhaar, G.Berger, C. Gomes, U. Linow, M. Hardt, J. Günster, M. Stiller, A. Houshmand, K.A. Ghaffar, A.Gamal, M. EL-Mofty, **C. Knabe**. Development of a synthetic tissue engineered 3D printed bioceramic-based bone graft with homogenously distributed osteoblasts and mineralizing bone matrix in vitro. J Tissue Eng Regen Med. 2018 Jan;12(1):44-58. Epub. 2016 Nov 15. doi: 10.1002/term.2362. (IF 4.71)
58. Adel-Khattab D, B. Peleska, M. Kampschulte, M. Stiller, R. Gildenhaar, G. Berger, C. Gomes, U .Linow, M. Hardt, J. Günster, A. Houshmand, K.A. Ghaffar, A.Gamal, M. EL-Mofty, **C. Knabe**. An intrinsic angiogenesis approach and varying bioceramic scaffold architecture affect blood vessel formation in bone tissue engineering in vivo. Key Engineering Materials 2017, Vol. 720, pp. 58-64 (IF 0.39).
59. Adel-Khattab D, F. Giacomini, B. Peleska, R. Gildenhaar, G. Berger, C. Gomes, U. Linow, M. Hardt, J. Günster, A. Houshmand, M. Stiller, K.A. Ghaffar, A. Gamal, M. EL-Mofty, **C. Knabe**. Development of a synthetic tissue engineered 3D printed calciumalkaliphosphate-based bone graft with homogenously distributed osteoblasts and mineralizing bone matrix in vitro. Key Engineering Materials 2017, Vol. 720, pp. 82-89 (IF 0.39).
60. **Knabe C**, Mele A, Peleska B, Kann PH, Adel-Khattab D, Renz H, Reuss A, Bohner M, Stiller M. Effect of sex-hormone levels, sex, body mass index and other host factors on human craniofacial bone regeneration with bioactive tricalcium phosphate grafts. Biomaterials 123 (2017) 48-62 (IF 8.402).

61. **Knabe C**, Adel-Khattab D, Kluk E, Struck R, Stiller M. Effect of a Particulate and a Putty-Like Tricalcium Phosphate-Based Bone-grafting Material on Bone Formation, Volume Stability and Osteogenic Marker Expression after Bilateral Sinus Floor Augmentation in Humans. J Funct Biomater. 2017 Jul 29;8(3).
62. **Knabe C**, Knauf T, Adel-Khattab D, Peleska B, Hübner WD, Peters F, Rack A, Gildenhaar R, Berger G, Günster J, Houshmand A, Stiller M. Effect of a rapidly resorbable calcium alkali phosphate bone grafting material on osteogenesis after sinus floor augmentation in humans. Key Engineering Materials 2017, Vol. 758, pp 239-244 (IF 0.39).
63. **Knabe C**, Adel-Khattab D, Hübner WD, Peters F, Knauf T, Peleska B, Barnewitz D, Genzel A, Kusserow R, Sterzik F, Stiller M, Müller-Mai M. "Effect of silicon-doped calcium phosphate bone grafting materials on bone regeneration and osteogenic marker expression after implantation in the ovine scapula. J Biomed Mater Res B Appl Biomater. 2019 Apr;107(3):594-614. Epub 2018 May. (IF 3.373).
64. **Knabe C**, Berger, Gildenhaar R, Dombrowski F, Heggemann J, Tolanov M , Reiter K, Houshmand A, Meier N, Stiller M. Novel putty-like resorbable calcium alkali orthophosphate bone substitute cements for restoring contours in craniofacial surgery. Biomedical Sciences Instrumentation 2019 Nov; 55. (Special Issue Bioceramics 31), 9-14.
65. Cacaci C, Ackermann KL, Barth T, Kistler S, Stiller M, Schlee M. A non-interventional multicenter study to document the implants success and survival rates in daily dental practices of the CONELOG screw-line implant. Clin Oral Investig. 2019 Jun;23(6):2609-2616. doi: 10.1007/s00784-018-2646-0.
66. Wölfle U C, T. Briggs, S. Bhattacharyya, H. Qu, N. Sheth, **C. Knabe*** and P. Ducheyne*. Dual local drug delivery of vancomycin and farnesol for mitigation of MRSA infection in vivo – a pilot study. European Cells and Materials 2020;40: 38-57. (IF: 3.667) *authors contributed equally.
67. Rack A, Stroebel J, Rack T, Dabin Y, **Knabe C**, Stiller S, Coan P, Bleuet P. TomoPress – in situ synchrotron-based microtomography under axial load. Instruments, 2020, 4(2), 11-24. (MDPI Publishers, Basel, Switzerland).
68. Ackermann KL, Barth T, Cacaci C, Kistler S, Schlee M, Stiller M. Clinical and patient-reported outcome of implant restorations with internal conical connection in daily dental practices: prospective observational multicenter trial with up to 7-year follow-up. Int J Implant Dent. 2020 Apr 8;6(1):14. doi:
69. 10.1186/s40729-020-00211-z. Ensir H, Knauf T, Adel-Khattab D, Bednarek B, Tariq I, Berger G, Gildenhaar R, Stiller M, **Knabe C**. Effect of a bioactive calcium alkali orthophosphate bone grafting material as compared to tricalcium phosphate on osteogenesis after sinus floor augmentation in patients. Biomedical Sciences Instrumentation 2021 Jan; 57 (1): 1-18.
70. **Knabe C**, Stiller M, Kampschulte M, Wilbig J, Peleska B, Günster J, Gildenhaar R, Berger G, Rack A, Linow U, Heiland M, Rendenbach C, Koerdt S, Steffen C, Houshmand A, Xiang-Tischhauser L, Adel-Khattab D. A tissue engineered 3D printed calcium alkali phosphate bioceramic bone graft enables vascularization and regeneration of critical-size discontinuity bony defects. Front Bioeng Biotechnol. 2023 Jun 15;11:1221314. doi: 10.3389/fbioe.2023.1221314. (IF 6.064)
71. **Knabe C**, Adel-Khattab D, Rezk M, Cheng J, Berger G, Gildenhaar R, Wilbig J, Günster J, Rack A, Heiland M, Knauf T, Stiller M. Osteogenic Effect of a Bioactive Calcium Alkali Phosphate Bone Substitute in Humans. Bioengineering (Basel). 2023 Dec 11;10(12):1408. doi: 10.3390/bioengineering10121408. (IF:4.86).
72. **Xiang-Tischhauser L**, Bette M, Rusche JR, Roth K, Kasahara N, Stuck BA, Bakowsky U, Wartenberg M, Sauer H, Geisthoff UW, Mandic R. Generation of a Syngeneic Heterozygous ACVRL1(wt/mut) Knockout iPS Cell Line for the In Vitro Study of HHT2-Associated Angiogenesis. Cells. 2023 Jun 10;12(12):1600. doi: 10.3390/cells12121600.
73. Wüster, J, Neckel, N, Sterzik, F, Xiang-Tischhauser, L, Barnewitz, D,Genzel, A, Koerdt, S, Rendenbach, C, Müller-Mai, C, Heiland, M, Nahles,S, **Knabe C.** (2024). Effect of synthetic hydroxyapatite-based bone grafting material compared to established bone substitute materials in critical-size bone defects of the ovine scapula. Regen Biomater. 2024 Apr 24;11:rbae041. doi: 10.1093/rb/rbae041. (IF:5.82).
74. El-Ghannam A, Sultana F, Dréau D, Tiwari A, Yang IH, AlFotawi R, **Knabe C**. Novel 3D printed bioactive SiC orthopedic screw promotes bone growth associated activities by macrophages, neurons, and osteoblasts. J Biomed Mater Res A. 2024 Sep 25. doi: 10.1002/jbm.a.37801. (IF:3.90)
75. Bette M, Reinhardt L, Gansukh U, **Xiang-Tischhauser L**, Meskeh H, Di Fazio P, Buchholz M, Stuck BA, Mandic R. The Role of TGF-β1 and Mutant SMAD4 onEpithelial-Mesenchymal Transition Features in Head and Neck Squamous Cell Carcinoma Cell Lines. Cancers (Basel). 2024 Sep 16;16(18):3172. doi: 10.3390/cancers16183172.
76. Breunig N, Stiller M, Mogk M, Mengel R. Influence of gingival phenotype on crestal bone loss at implants : A long-term 2 to 20-year cohort study in periodontally compromised patient. Int J Implant Dent. 2024 Aug 13;10(1):39. doi: 10.1186/s40729-024-00531-4.
77. Neckel N, Wüster J, Xiang-Tischhauser L, Mir S, Adel-Khattab D, Stang B, Kuhr A, Barnewitz D, Genzel A, Koerdt S, Rendenbach C, Heiland M, Nahles S, Stiller M, Knabe C. Effect of Tricalcium Phosphate Foam and

Paste Bone Grafting Materials Designed for Improved Surgical Handling on Osteogenesis in a Sheep Scapula Model. J Biomed Mater Res B Appl Biomater. 2025 Apr;113(4):e35561. (IF:3.20)

78. Cheng J, Dorner-Reisel A, Wang T, Freiberger E, Ritter U, Moje J, Zhao M, Scharff P, Tunc Y, BinOthman HA, Binti Shamsuddin NA, **Knabe C***, Xiang-Tischhauser L*, Biological characterization of the osteogenic, antibacterial and anti-inflammatory properties of fullerene-modified zirconia and titanium alloy implant surfaces, Diamond & Related Materials (2025), https://doi.org/10.1016/j.diamond.2025.112339 (IF:4.3) **authors contributed equally.*

Book Chapters:

1. **C. Knabe**, A. Houshmand, G. Berger, R. Gildenhaar, M. Stiller, P. Ducheyne. Effect of rapidly resorbable calcium-alkali-orthophosphate bone substitute materials on the temporal expression of the osteoblastic phenotype in vitro. In: Materials for scaffolding of biologically engineered systems, Eds. A. Ravaglioli and A. Krajewski, National Research Council, Faenza, Italy, 2006, p. 255-264.
2. **C. Knabe**, P. Ducheyne. Chapter 6 - Cellular response to bioactive ceramics, In: Handbook of Bioceramics and their Applications. Ed: Prof. Dr. Tadashi Kokubo, Woodhead Publishing Inc., Cambridge, UK, 2008, p.133-164.
3. **C. Knabe**, G. Berger, R. Gildenhaar, P. Ducheyne, M. Stiller, Novel, rapidly resorbable bioceramic bone grafts produce a major osteogenic effect - the pre-clinical evidence, Ed. P. Vicenzini, “Advances in Science and Technology” , Trans Tech Publications, Switzerland, 2010, vol. 76 , 214-223.
4. **Knabe C**, Ducheyne P. Bioactivity – mechanisms. In: “Comprehensive Biomaterials”, Volume 1, Chapter 1.114. P. Ducheyne, K. Healy, D. Hutmacher, D.W. Grainger, J.P. Kirkpatrick, editors. Elsevier, Oxford, UK, 2011, p. 245-258.
5. **Knabe C**, Stiller M, Ducheyne P. Dental graft materials. In: „Comprehensive Biomaterials”. Volume 6, Chapter 6.620. P. Ducheyne, K. Healy, D. Hutmacher, D.W. Grainger, J.P. Kirkpatrick, editors. Elsevier, Oxford, UK, 2011, p. 305-324.
6. Rack A, Stiller M, Dalügge O, Rack T. Riesemeyer H, **Knabe C**. Developments in High Resolution CT - Studying bioregeneration by hard X-ray synchrotron based microtomography. In: “Comprehensive Biomaterials”, Volume 3, Chapter 3.304. P. Ducheyne, K. Healy, D. Hutmacher, D.W. Grainger, J.P. Kirkpatrick, editors. Elsevier, Oxford, UK, 2011, p. 47-62.
7. **Knabe C**, Adel-Khattab D, Ducheyne P. 1.12 Bioactivity: Mechanisms. In: Ducheyne P, Healy K, Hutmacher D, Grainger DW, Kirkpatrick JP. editors, Comprehensive Biomaterials II, Vol 1, Elsevier, Oxford, UK; 2017:Chapter 1.12:291-310.
8. **Knabe C**, Stiller M, Adel-Khattab D, Ducheyne P. Dental graft materials. In: Ducheyne P, Healy K, Hutmacher D, Grainger D, Kirkpatrick JP, editors. Comprehensive Biomaterials II, Vol 7, Elsevier, Oxford UK; 2017;Chapter 7.20:378-405.
9. Rack, A., Tafforeau, P., Riesemeier, H., Stiller, M., Dalügge, O., Rack, T., Stiller, F., and **Knabe, C**. Developments in High-Resolution CT: Studying Bioregeneration by Hard X-Ray Synchrotron-Based Microtomography. In: Ducheyne, P., Grainger, D.W., Healy, K.E., Hutmacher, D.W., and Kirkpatrick, C.J. (eds.), Comprehensive Biomaterials II, Vol. 3, Chapter 3.4. Oxford: Elsevier, Oxford, UK¸ 2017, pp.58–77.
10. **Knabe C**, Adel-Khattab D, Müller-Mai, Ch. Chapter 4.1 Biological performance of biomaterials and biomedical devices. In: Heimann RP, editor. Materials for Medical Applications, De Gruyter Berlin, Boston, Beijing 2020.

REFEREED CONFERENCE PROCEEDINGS:

1. C. Knabe, R. Gildenhaar, G. Berger, W. Ostapowicz, R. Fitzner, R., R.J. Radlanski, G.K. Siebert, U. Gross. „In vitro investigation of novel calcium phosphate ceramics using osteoblast cultures." „Untersuchung unterschiedlicher Kalziumphosphatkeramiken unter Verwendung von Osteoblastenkulturen" In: Biomedical Engineering, U. Boenick, M. Schaldach, eds., Schiele&Schoen, Berlin 1995, Vol. 40, Suppl. 1, p.135-136.
2. C. Knabe, B. Hoffmeister, W.B. Freesmeyer, R.J. Radlanski. "Implant-supported titanium prostheses following augmentation procedures." In: Esymposium of the 4th International Symposium on Titanium in Dentistry, T. Mori ed., http://www.bioconnect.com/esympo/istd4/knabe.htm (2000).
3. C. Knabe, C.R. Howlett, B. Markovic, R. Gildenhaar, G. Berger, H. Zreiqat. „The Functional Expression of Osteoblasts Grown on Rapidly Resorbable Calcium Phosphates" In: Bioceramics15, B. Ben-Nissan, D. Sher, W. Walsh eds., Trans Tech Publications, Zurich, Switzerland, 2003, p. 679-82.
4. H. Zreiqat, C.R. Howlett, A. Zannettino, P. Evans, C. Knabe, G. Schulze-Tanzil, M. Shakibaei. „Surface Modification of Bioceramics Affect Osteoblastic Cells Response" In: Bioceramics15, B. Ben-Nissan, D. Sher, W. Walsh eds., Trans Tech Publications, Zurich, Switzerland, 2003, p.707-710.
5. H. Zreiqat, G. Berger, R. Gildenhaar, C. Knabe. „The Functional Expression of Human Bone Derived Cells Grown on Rapidly Resorbable Calcium Phosphate Ceramics" In: Key Engineering Materials, Vols. 254-256 (2004), 1059 – 1062.
6. A. Rack, C. Knabe, M. Stiller, S. Zabler, Ch. Koch, G. Weidemann, H. Seligmann, H. Riesemeier, J. Goebbels. Studies with high resolution synchrotron-tomography of regenerated bone tissue using rapidly resorbable bone substitute materials. BESSY Annual Report 2005, p. 421-422, CD-ROM.
7. A. Rack, C. Knabe, M. Stiller, Ch. Koch, H. Seligmann, S. Zabler, G. Weidemann, J. Goebbels Synchrotron-Tomography for Evaluation of Bone Tissue Regeneration using rapidly Resorbable Bone Substitute Materials Proc. 9th European Conference on Nondestructive Testing (ECNDT2006), Berlin 2006, DGZfP Proceedings BB 103-CD (ISBN 3-931381-86-2), p. 103-110.
8. A. Rack, S. Zabler, H. Riesemeier, G. Weidemann, B. Müller, L. Helfen, M. Stiller, C. Knabe, J. Goebbels, J. Banhart. Nondestructive 3d insights into foamy metals and bioregenerative ceramics. 26th BESSY Users' Meeting, December 3-4, 2007, Berlin, Germany. In: Noble Traces, BESSY Highlights 2007, p.34-35.
9. D. Jörn, R. Gildenhaar, G. Berger, M. Stiller², C. Knabe, S. Schlau. Influence of specimen preparation and particle size on the properties of calcium alkali orthophosphate cements. Biomaterialien 9, (3/4), 2008, p 178.
10. C. Knabe, G. Berger, R. Gildenhaar, Ch. Koch, I. Axmann, S. Jonscher, A. Rack, P. Ducheyne, M. Stiller. "Effect of rapidly resorbable calcium-alkali-orthophosphate bone grafting materials on osteogenesis after sinus floor augmentation in sheep." Transactions 35th Annual Meeting of the Society for Biomaterials U.S.A., April 22-25, 2009, San Antonio, Texas, USA, p. 29.
11. C. Knabe, J. Kim, C. Chen, V. Meausoone, S. Radin, P. Ducheyne. "In vitro surface reactions underlying bone bioactivity of calcium-alkali-orthophosphate bone grafting materials." Transactions 35th Annual Meeting of the Society for Biomaterials U.S.A., April 22-25, 2009, San Antonio, Texas, USA, p. 529.
12. C. Knabe. "Rapidly resorbable bioactive grafting materials for craniofacial bone regeneration - translational research in regenerative medicine and implant dentistry." BIOMED2009, Proceedings 15th International Biomedical Science and Technology Symposium, August 16-19, 2009, Güzelyurt, Turkey, p. 30.
13. C. Knabe, G Berger, R. Gildenhaar, A. Houshmand, Ch. Müller-Mai, A. Bednarek, Ch. Koch, D. Jörn and M. Stiller: Effect of resorbable calcium-alkali-orthophosphate bone substitute cements on osteogenesis after implantation in the rabbit femur. Transactions 36th Annual Meeting of the Society for Biomaterials U.S.A., April 21-24, 2009, Seattle, Washington, USA, p. 10.
14. J. Kim, G. Berger, R. Gildenhaar, I. Shapiro, P. Ducheyne and C. Knabe: Survival and apoptosis in vitro of osteoblastic cells in contact with synthetic bone grafts Transactions 36th Annual Meeting of the Society for Biomaterials U.S.A., April 21-24, 2009, Seattle, Washington, USA, p. 830
15. C. Knabe. Novel, rapidly resorbable bioceramic bone grafts produce a major osteogenic effect - the pre-clinical evidence. Proceedings CIMTEC 2010 - 12th INTERNATIONAL CERAMICS CONGRESS & 5th FORUM ON NEW MATERIALS, June 13-18, 2010 p17.

INVITED LECTURES/ CONFERENCE INVITATIONS:

1995

1. C. Knabe „In vitro test for bone substitutes and percutaneous devices“, Sydney, seminar, School of Bioengineering, University of New South Wales, Sydney, Australia, February 13, 1995.
2. C. Knabe „Oral Implantology: Surgical aspects and evaluation of bone volume“ „Aspekte zur Bewertung des Knochenangebotes und zum chirurgischen Vorgehen“, Czech Symposium on Implant Dentistry, Bruijn, November 24th, 1995.

1996

3. C. Knabe „Oral implantology: Surgical techniques and implant prosthodontics“ „Implantatversorgungen: Chirurgisches Vorgehen und Anfertigung von Suprakonstruktionen“ Monthly workshop of the Berlin Society for Prosthodontics.“, April 18th, 1996, Berlin, Germany.

1997

4. C. Knabe „Osseointegration - the basis for Oral Implantology“ „Osseointegration - Grundlagen der Implantation.“ Annual Wilmersdorf Symposium, Berlin, Germany, June 7th, 1997.

1998

5. C. Knabe „Bone Substitution in Oral Implantology“ „Grundlagen des Knochenersatzes für zahnärztliche Indikationen.“ Monthly lectures for practitioners in Berlin and Brandenburg at the Philipp-Pfaff Institute, Berlin, Germany, November 3rd, 1998.
6. C. Knabe „Implant-supported prostheses following augmentation procedures“ “Implantatprothetik nach Alveolarfortsatzrekonstruktion“. Annual Steglitz Symposium on Maxillofacial Surgery, entitled*: „Dental implants in combination with bone grafting procedures for augmenting alveolar ridges.“ Kombination von Implantat und Transplantat zum Aufbau des Alveolarfortsatzes“*, December 5th, 1998, Berlin, Germany.

1999

7. C. Knabe „In vitro investigation of novel calcium phosphate bone substitutes and various dental implant surfaces using osteogenic cultures“, CSIRO Australia, Division of Molecular Science, North Ryde, Sydney, October 12th,1999.

2000

8. C. Knabe „Implant-supported titanium prostheses following augmentation procedures“, The University of Sydney, Faculty of Dentistry, January 27th, 2000, Sydney, Australia.
9. C. Knabe „In vitro investigation of novel calcium phosphate bone substitutes and various dental implant surfaces using osteogenic cultures“, School of Pathology, University of New South Wales, Sydney, NSW, February 21st, 2000.

2001

10. C. Knabe „In vitro investigation of bone substitute materials and various dental implant surfaces“ „In vitro Untersuchungen von Knochenersatzmaterialien und Implantatoberflächen“. Research seminars: German Research Foundation Postgraduate Research Center for Periodontology (head: Prof. J.P. Bernimoulin), Berlin, Germany, February 16th, 2001.

2002

11. C. Knabe, U. Gross „Can biologically functional implant surfaces enhance tissue integration of dental implants? – novel techniques for surface modifications and bone regeneration.“ “Verbessern biologisch funktionalisierte Oberflächen die Einheilung von Implantaten? - Ein Ausblick auf neue Techniken und Verfahren.“ 6th Annual Meeting of the Berlin Brandenburg Society of Dental Implantology, March 9th, 2002, Berlin, Germany.
12. C. Knabe Osseointegration - implant surface modifications and tissue regeneration techniques. Past, present and future. Annual Wilmersdorf Symposium, June 29th, 2002, Berlin, Germany.
13. C. Knabe „Novel developments regarding dental implant surface modifications and tissue regeneration techniques.“ Monthly Meeting of the Berlin Division of the German Association of Oral Implantologists, October 16th, 2002, Berlin, Germany.
14. C. Knabe „Biologically functional implant surfaces“. Seminar, Friadent Dentsply Inc., November 7th, 2002, Mannheim, Germany.

2003

15. C. Knabe "Rapidly resorbable bone substitute materials for alveolar ridge augmentation - Clinical need and fundamental studies." New York University College of Dentistry, Department of Biomaterials and Biomimetics, April 28, 2003, New York, U.S.A.

2004

16. C. Knabe "Rapidly resorbable bone substitute materials for alveolar ridge augmentation - Clinical need and fundamental studies." Temple University School of Dentistry, Department of Restorative Dentistry, October 14, 2004, Philadelphia, U.S.A.

2005

17. C. Knabe. “Rapidly resorbable bone substitute materials for alveolar ridge augmentation – Cell signalling events driven by material surfaces.” Department of Biomedical Engineering, Carnegie Mellon University, March 2nd, 2005, Pittsburgh, U.S.A.

18. C. Knabe. "Current trends for bone regeneration in implant dentistry." Temple University School of Dentistry, Department of Restorative Dentistry, August 5th, 2005, Philadelphia, U.S.A.
19. C. Knabe. “Rapidly resorbable bone substitute materials for alveolar ridge augmentation –in vitro and in vivo studies.” Research seminars: German Research Foundation Postgraduate Research Center for Periodontology (head: Prof. J.P. Bernimoulin), December 9th, 2005, Berlin, Germany.

2006

20. C. Knabe "Rapidly resorbable bone substitute materials for alveolar ridge augmentation - Clinical need and fundamental studies." University of Bern, School of Dental Medicine, Department of Oral Surgery and Stomatology, March 23rd, 2006, Bern, Switzerland.
21. C. Knabe. "Rapidly resorbable bioactive ceramics materials for alveolar ridge augmentation – in vitro and in vivo studies.” 13th Symposium on Ceramics in Medicine, Federal Institute for Materials Research and Testing, May 9th, 2006, Berlin, Germany.
22. C. Knabe. “Effect of bioactive bone substitute materials on osteoblast differentiation and bone tissue formation in vitro and in vivo.” Symposium on Oral Biotechnology (search committee for W3 University Professorship “Oral Biotechnology”), School of Dental Medicine, University of Freiburg, Freiburg, Germany, December 19, 2006.
23. G. Berger, R. Gildenhaar, C. Knabe, “The use of calcium phosphate ceramics as resorbable bone substitute materials.” „Calciumphosphat-Keramik für den resorbierbaren Knochenersatz“, Annual Meeting of the German Society for Ceramics in Medicine (DKG), March 19-21, Dresden, Germany.
24. International Scientific Advisory Committee: 19th International Symposium on Ceramics in Medicine, the 2006 Annual Meeting of the International Society for Ceramics in Medicine (ISCM).

2007

25. C. Knabe, P. Ducheyne. ”Cellular response to materials for bone tissue engineering,” (opening - presentation) Transactions Annual Meeting of the Academy of Dental Materials (Proceedings of a Conference on “Tissue engineering Scaffolds”), October 22-24, 2007, Fort Lauderdale, Florida, USA, Volume 21, 2007, p. 6-7.
26. International Scientific Advisory Committee: 20th International Symposium on Ceramics in Medicine, the 2007 Annual Meeting of the International Society for Ceramics in Medicine (ISCM)

2008

27. C. Knabe. “Rapidly resorbable bone substitute materials in implant dentistry - clinical need and fundamental studies” University of Philadelphia, School of Dental Medicine, Department of Restorative Dentistry (chair: Professor M. Blatz), February 5, 2008, Philadelphia, USA.
28. International Scientific Advisory Committee: 21st International Symposium on Ceramics in Medicine, the 2008 Annual Meeting of the International Society for Ceramics in Medicine (ISCM)

2009

29. C. Knabe. „Bioactive bone substitute materials in implant dentistry - from fundamental studies to clinical application”. Berlin Society for Periodontology, March 19, 2009, Berlin.
30. C. Knabe. “Rapidly resorbable bioactive grafting materials for craniofacial bone regeneration - translational research in regenerative medicine and implant dentistry.” BIOMED2009, 15th International Biomedical Science and Technology Symposium, August 16-19, 2009, Güzelyurt, Turkey.
31. C. Knabe. Bioactive bone substitute materials in implant dentistry. Effect on osteogenesis *in vitro* and *in vivo.* From fundamental research to clinical application.“ „Bioaktive Knochenersatzmaterialien in der Zahnärztlichen Implantologie: „Einfluss auf die Osteogenese *in vitro* und in vivo. Von der Grundlagenforschung zur klinischen Anwendung.“ (search committee for W2 University Professorship for Experimental Dentistry and Prosthetic Dentistry), School of Dental Medicine, Technical University of Dresden, Dresden, Germany, October 13, 2009.
32. C. Knabe. Rapidly resorbable bioactive bone grafting materials for orofacial bone regeneration - from fundamental research to clinical application. (search committee for W3 University Professorship for Experimental Orofacial Medicine) School of Dental Medicine, Phillips-University-Marburg, December 9, 2009, Marburg, Germany.
33. International Scientific Advisory Committee: 22nd International Symposium on Ceramics in Medicine, the 2009 Annual Meeting of the International Society for Ceramics in Medicine (ISCM)

2010

34. C. Knabe. Novel, rapidly resorbable bioceramic bone grafts produce a major osteogenic effect - the pre-clinical evidence CIMTEC 2010 - 12th INTERNATIONAL CERAMICS CONGRESS & 5th FORUM ON NEW MATERIALS, June 13-18, 2010, Montecatini, Italy.
35. International Scientific Advisory Committee: 23rd International Symposium on Ceramics in Medicine, the 2010 Annual Meeting of the International Society for Ceramics in Medicine (ISCM)

2011

36. C. Knabe. Novel, rapidly resorbable bioceramic bone grafts produce a major osteogenic effect. 9th International Meeting of Pacific Rim Ceramic Societies, Cairns, Australia, July 10th - 14th 2011, p. S1.8.

37. C. Knabe. Rapidly resorbable bioactive bone grafting materials for craniofacial bone regeneration - translational research in regenerative medicine and implant dentistry. Workshop on Advanced Bioceramics, Dept, of Bioengineering (Prof. Dr. Min Wang) University of Hong Kong. July 18, 2011.

2012

38. C.Knabe, G. Berger, R. Gildenhaar, P. Ducheyne, M. Stiller. Rapidly resorbable bioactive ceramic grafting materials for craniofacial bone regeneration – translational research in regenerative medicine and implant dentistry. E-MRS (European Materials Research Society) 2012 SPRING MEETING, invited presentation. May 14-18, 2012.

2013

39. C. Knabe, G. Berger, R. Gildenhaar, P. Ducheyne, M. Stiller. Einsatz schnell resorbierbarer Knochenersatzmaterialien auf Calciumalkaliphosphatbasis für die craniofaziale Knochenregeneration - Einfluss auf die Osteogenese in vitro und in vivo - von der Grundlagenforschung zur klinischen Anwendung." (Rapidly resorbable bioactive ceramic grafting materials based on calcium alkali orthophosphates for craniofacial bone regeneration - translational research from bench to bedside). II. Freiburger Keramiksymposium. CaP-Keramik als Carrier (2nd Freiburg Symposium on Bioceramics, July 6-7 Freiburg, Germany.

2014

40. Organizing Committee: 26th International Symposium on Ceramics in Medicine, the 2014 Annual Meeting of the International Society for Ceramics in Medicine (ISCM)
41. C. Knabe. Rapidly resorbable, bioactive bone grafting materials stimulate bone formation and bone repair - Translational research in craniofacial surgery and implant dentistry. Invited presentation, Dept. of Restaurative Dentistry, School of Dental Medicine, University of Pennsylvania, June 10, 2014.
42. C. Knabe. Rapidly resorbable, bioactive bone grafting materials stimulate bone formation and bone repair - Translational research in craniofacial surgery and implant dentistry. Invited presentation, The State Key Laboratory of Polymer Materials Engineering, Sichuan University, Chengdu, China, December 16, 2014.
43. C. Knabe. Rapidly resorbable, bioactive bone grafting materials stimulate bone formation and bone repair - Translational research in craniofacial surgery and implant dentistry. Invited presentation, Dept. of Oral Implantology, School of Dental Medicine, Sichuan University, Chengdu, China, December 18, 2014.

2015

44. C. Knabe (Symposium organizer), M. Stiller SV 02 Symposium: Bone regeneration in implant dentistry – translational research and individualized patient-based medicine: C. Knabe. Rapidly resorbable bone grafting materials based on calciumalkaliorthophosphates from bench to bedside, i.e. from basic research to clinical application. „Knochenregeneration in der Zahnärztlichen Implantologie: translationale Forschung und patientenindividuelle Aspekte"- Schnell resorbierbare Knochenersatzmaterialien auf Calciumalkaliorthophosphatbasis für die Zähnärztliche Implantologie - von der Grundlagenforschung zur klinischen Anwendung. Transactions of the 64th Annual meeting of the German Society for Prosthetic Dentistry and Biomaterials, Ulm, Germany, June 11-13, 2015, p. 15-17.
45. C. Knabe. 3D printed bone grafts. Biomaterials for bone tissue engineering utilizing additive manufacturing technologies. Symposium on Materials for Individual Fabrication Technologies. Hessen Trade & Invest Inc., Richard-Küch-conference center, Heraeus, Hanau, Germany, November 12, 2015.

2016

46. C. Knabe. Knochenersatzmaterialien auf Calciumalkaliorthophosphatbasis, Tricalciumphosphat- und Hydroxylapatitbasis: Histologische Auswertungen – spiegeln sich die materialkundlichen Überlegungen und Erwartungen in-vivo wider? FIT für intelligentes Knochenmanagement, Frankfurter Implantologietage, 11.-12. März 2016.
47. M. Stiller, C. Knabe. Klinische, radiologische, histologische und immunhistochemische Befunde nach Sinusbodenelevation unter Verwendung eines neuartigen Biomaterials auf Calciumalkaliorthophosphatbasis „Osseolive." FIT für intelligentes Knochenmanagement, Frankfurter Implantologietage, 11.-12. März 2016, Frankfurt.
48. C. Knabe. Entwicklungen synthetischer Knochenregenerationsmaterialien auf Calciumphosphatbasis. Histologische Auswertungen – spiegeln sich die materialkundlichen Überlegungen und Erwartungen in-vivo wider? Symposium Bone Regeneration 2016 "Meet the Experts", 23.- 24.09.2016, Frankfurt.

2017

49. C. Knabe. Additive Manufacturing in Medicine, Symposium – "Materials shape products: Bioprinting and 3D printing in Medicine" (BIO-PRINTING UND 3D-DRUCK FÜR DIE MEDIZIN), Hessen Trade & Invest Inc., School of Dental Medicine, Marburg, Feb. 21, 2017.

2018

50. C. Knabe. Thuringia Biomaterials Symposium. Bioprinting and 3D printing in Medicine & Craniofacial Bone Regeneration" March 14,15, 2018, Zeulenroda, Thuringia, Germany,
51. C. Knabe. Histological evaluation of bone scaffolds –Correspondence between material science considerations and in vivo results. Bone Regeneration Summit 2018, March 23-24, 2018, Hamburg, Germany.

52. C. Knabe. Histological evaluation of bone grafting materials for oral implantology –Correspondence between material science considerations and in vivo results. FIT meeting 2018- Frankfurt Implantology Days 2018, April 27-28, 2018, Frankfurt, Germany.
53. C. Knabe. Additive Manufacturing“ & 3D Printing for medical applications and craniofacial tissue engineering. 19th Heilgenstadt Biomaterials Symposium. September 24-26, 2018

2019

54. Knabe C, Berger G, Gildenhaar R, Günster J, Stiller M. Calcium alkali orthophosphate-based bioactive bone grafting materials and 3D printed scaffolds for bone tissue engineering stimulate osteogenesis and facilitate bone repair in vivo – Translational research in craniofacial surgery and implant dentistry. Keynote Lecture. Annual Meeting of the European Society for Biomaterials September 9-13, 2019, Dresden, Germany.

2022

55. Knabe C, Berger G, Gildenhaar R, Günster J, Stiller M. Bioactive calcium alkali orthophosphate bone graft materials and 3D printed scaffolds for bone tissue engineering enhance osteogenesis and facilitate bone repair in vivo – Translational research in maxillofacial surgery and implant dentistry. Keynote Lecture. Bioceramic32, Annual Meeting of the International Society for Ceramics in Medicine, September 20-23, 2022, Venice, Italy

2024

56. Knabe C, Berger G, Gildenhaar R, Günster, Wilbig J, Rendenbach C, Fischer H, Heiland M, Steffen C, Koerdt S, Stiller M. Bioactive calcium alkali orthophosphate bone grafts enhance osteogenesis and facilitate bone repair in vivo – Translational research in maxillofacial surgery and implant dentistry. Keynote Lecture Special Symposium “Translation of bioactive ceramics from bench to bedside and emerging technologies for patient specific approaches.” 12th World Biomaterials Congress, May 26-31, 2024, Daegu, Korea.
57. Knabe C, Berger G, Gildenhaar R, Günster, Wilbig J, Rendenbach C, Fischer H, Heiland M, Steffen C, Koerdt S, Stiller M. Bioactive calcium alkali orthophosphate bone graft materials and 3D printed scaffolds for bone tissue engineering enhance osteogenesis and facilitate bone repair in vivo – Translational research in maxillofacial surgery and implant dentistry. 21st Annual Meeting of the German Ceramic Society – Work Group Bioceramics.November 15, 2025

CONTRIBUTED PAPERS:

1989

1. C. Knabe, U. Gross, C. Große-Siestrup. “Histological evaluation of percutaneous implants in humans and animals“. 5th Annual Meeting Academy of Surgical Research, September 28-30, Atlanta, U.S.A., J. Invest. Surg. 1989; 2, 332-3.
2. C. Knabe, C. Große-Siestrup, H. Becker, A. Pustelnik, G. Gahl “A new method to evaluate the CAPD-catheter-exit and other percutaneous devices.“ 5th Annual Meeting Academy of Surgical Research, September 28-30, Atlanta, U.S.A., J. Invest. Surg. 1989; 2, 333.

1994

3. C. Knabe, G.K. Siebert. „The use of an electronic probe for recording periimplant pocket depth“ „Einsatz einer computergesteuerten Parodontalsonde zur Messung der periimplantären Sulkustiefe“. Joint Annual Meeting of the German Society for Oral Implantology and of the German Society for Prosthodontics and Dental Materials., March 17-20, 1994, Mainz, Germany, Transactions p. 75-76.
4. C. Knabe, C.Große-Siestrup, A. Hunder, S. Schürner, A. Ziemann. “A computer-assisted in vitro biomaterial test for percutaneous devices using human keratinocyte-cultures.” 20th Annual Meeting Society for Biomaterials U.S.A., April 5-9, 1994, Boston U.S.A., Transactions p. 386.
5. C. Knabe, C. Große-Siestrup, A. Hunder, S. Schürner, D. Kneiding, A. Ziemann. „In vitro biomaterial test for percutaneous devices using human dermal keratinocyte and fibroblast cell cultures.“ „Biomaterialtestung mit Keratinocyten und Fibroblasten“. Annual Meeting of the German Society for Biomaterials, March 24th, 1994, Berlin, Germany.

1995

6. C. Knabe, C. Große-Siestrup, U. Gross. „Histological evaluation of a natural percutaneous structure as compared to clinical percutaneous devices.“ 5th Annual Meeting of the Australian Society for Biomaterials, January 30 - February 1st, 1995, Melbourne, Australia. Proceedings p. A14.
7. C. Knabe, R. Gildenhaar, G. Berger, W. Ostapowicz, R. Fitzner, R.J. Radlanski, U. Gross, G. K. Siebert: “In vitro examination of different calcium phosphates.” XX Annual Meeting of the European Society for Artificial Organs, October 15-18, 1995, Berlin. Int. J. Artif. Organs 1995; 18: 76.
8. C. Knabe, K.U. Schendel, G.K. Siebert. „Rehabilitation of patients with TMJ disorders using implant-supported titanium restorations“ „Rehabilitation des funktionsgestörten Patienten mittels implantatgetragenem Zahnersatz aus Titan.“ Annual meeting of the German Society for CMD/Oral Function. November 17, 18, 1995, Bad Nauheim, Germany. (Proceedings p. 36)
9. C. Knabe, R. Gildenhaar, G. Berger, W. Ostapowicz, R. Fitzner, R.J. Radlanski, G.K. Siebert, U. Gross,

"Morphological evaluation of osteoblasts cultured on different calcium phosphates." 21st Annual Meeting Society for Biomaterials U.S.A., March 18-22, 1995, San Francisco, U.S.A., Transactions p. 156.

10. C. Knabe, C. Pauli, P. Kram. "Dental care in geriatric care units in Germany." III European Congress of Gerontology, August 30th-September 2nd, 1995, Amsterdam.
11. C. Knabe, R. Gildenhaar, G. Berger, W. Ostapowicz, R. Fitzner, R.J. Radlanski, G.K. Siebert, U. Gross. „In vitro investigation of novel calcium phosphate ceramics using osteoblast cultures." „Untersuchung unterschiedlicher Kalziumphosphatkeramiken unter Verwendung von Osteoblastenkulturen." 29th Annual Meeting of the German Society for Medical and Biomedical Engineering, September 14-15, 1995, Würzburg, Germany. Biomedical Engineering, Vol. 40, Suppl. 1, 1995, p.135-136.

1996

12. C. Knabe, K.U. Schendel, G.K. Siebert. „The use of implant-supported titanium prostheses for treatment of periodontally compromised patients including functional and orthodontic therapy.“ „Rehabilitation des parodontalreduzierten Restgebisses mit implantatgetragenem Zahnersatz aus Titan nach kombinierter parodontaler, funktioneller und kieferorthopädischer Vorbehandlung. Spring meeting of the German Society for Oral Implantology“, March 21-23, 1996, Aachen, Germany.
13. C. Knabe, R. Gildenhaar, G. Berger, W. Ostapowicz, R. Fitzner, R.J. Radlanski, U. Gross, G.K. Siebert. “In vitro examination of novel calcium phosphates using osteogenic cultures.“ Fifth World Biomaterials Congress, May 29-June 2, 1996, Toronto. Transactions p. 890.
14. C. Knabe, B. Hoffmeister. „The use of implant-supported ceramo-metal titanium prostheses for restorative treatment following sinus-lift and augmentation procedures.“ „Implantatgetragener Zahnersatz aus Titan zur Rehabilitation nach totaler oder partieller Oberkieferalveolarkammatrophie.“ Fall Meeting of the German Society for Oral Implantology“, November 21-23, 1996, Bremen, Germany.
15. C. Knabe, R. Gildenhaar, G. Berger, W. Ostapowicz, R. Fitzner, R.J. Radlanski, U. Gross. „Evaluation of novel rapid resorbable calcium phosphates using osteogenic cultures.”3rd Joint meeting CED/NOF and 33rd Annual Meeting of the Continental European Division of the International Association of Dental Research, September 12-15, 1996, Berlin, Germany (Transactions p.105, Abstract No.291).
16. C. Knabe, B. Hoffmeister. „Rehabilitation of atrophic maxilla using implant-supported titanium prostheses“ 20th Annual Conference of the European Prosthodontic Association (EPA) and 45th Annual Meeting of the German Society for Prosthodontics and Dental Materials, September 19-21, 1996, Tübingen, Germany (Proceedings p. 73, abstract No. 98).

1997

17. C. Knabe, F.C.M. Driessens. J.A. Planell, R. Gildenhaar, G. Berger, R. Fitzner, R.J. Radlanski, U. Gross. “Evaluation of calcium phosphates and experimental bone cements using osteogenic cultures.“ 23rd Annual Meeting Society for Biomaterials U.S.A., April 30-May 4, 1997, New Orleans, U.S.A .,Transactions p. 62.
18. C. Knabe, S. Kielblock. „Cytotoxicity of various resorbable and non-resorbable periodontal membranes.“ „Zytotoxikologische Untersuchung unterschiedlicher resorbierbarer und nicht-resorbierbarer Membranen.“ Annual Meeting of the German Society of Periodontology“ September 27, 1997, Leipzig, Germany, Proceedings p. 36.
19. C. Knabe C., F.C.M. Driessens, J.A. Planell, R. Gildenhaar, G. Berger, D. Reif, R. Fitzner, R.J. Radlanski, U. Gross. „In vitro investigation of various calcium phosphate ceramics and bone cements using osteoblast cultures.“ Untersuchung unterschiedlicher Kalziumphosphatkeramiken und Knochenzemente auf Kalziumphosphatbasis mittels Osteoblastenkulturen. Joint Annual Meeting of the German Society of Dentistry and Oral Medicine and the German Society for Prosthodontics and Dental Materials, October 2-5, 1997, Magdeburg, Germany (Proceedings p. 90).

1998

20. C. Knabe, B. Hoffmeister, W.B. Freesmeyer, R.J. Radlanski. „Implant-supported titanium prostheses following augmentation procedures.“ 4th International Symposium on Titanium in Dentistry, September 2-4, 1998, Geneva, Switzerland (abstract 0-24).
21. C. Knabe, F. Klar, R. Fitzner, R.J. Radlanski, U. Gross. „In vitro investigation of titanium and hydroxyapatite dental implant surfaces using osteogenic cultures“ 24th Annual Meeting Society for Biomaterials USA., April 22-26, 1998, San Diego, U.S.A. Transactions p.513.
22. C. Knabe, F. Klar, R. Fitzner, R.J. Radlanski, U. Gross. “Evaluation of titanium dental implant surfaces using osteogenic cultures.” 27th General Session of the International Association for Dental Research, June 24-27, 1998, in Nice, France (J Dent Res 77, 2677 (1998).
23. K.-D. Wolff., K. Herzog, C. Knabe, L. Khasim, B. Hoffmeister. „Results of mandibular reconstruction with microsurgical iliac crest fibula transplants in connection with implants“ XIV Congress of the European Association for Cranio-Maxillofacial Surgery, EACMFS, September, 1-5, 1998, Helsinki, Finland.

1999

24. C. Knabe, R. Gildenhaar, G. Berger, R. Fitzner, R.J. Radlanski, U. Gross. „Evaluation of novel calcium titanium phosphates using osteogenic cultures“ Transactions 25th Annual Meeting of the Society for Biomaterials, April 28 - May2, 1999, Providence, Rhode Island, U.S.A., Transactions p. 234.
25. A. Moormann, L. Wehnert, W.B. Freesmeyer, C. Knabe, R.J. Radlanski. „Influence of surface conditioning by ion implantation on the bond strength of gold alloys and porcelain.” Annual Meeting of the International College of Prosthodontics, April 1999, Finland, Int J Prosthodont 12 (1999) 454-455.

2000

26. C. Knabe, C.R. Howlett, R. Gildenhaar, G. Berger, F. Klar , H. Zreiqat. „The effect of different dental titanium and calcium phosphate implant surfaces on the expression of bone-related genes and proteins in vitro“. 6th World Biomaterials Congress May 15-20, 2000, Kamuela, Hawaii, U.S.A., Transactions p. 238.
27. C. Knabe, C.R. Howlett, R. Gildenhaar, G. Berger, D. Reif, H. Zreiqat. „The functional expression of human bone derived cells grown on rapidly resorbable calcium phosphate ceramics“ 6th World Biomaterials Congress, May15-20, 2000, Kamuela, Hawaii, U.S.A., Transactions p. 970.

28. C. Knabe, S. Nicklin, W. Yan, W.R. Walsh, R.J. Radlanski, B. Hoffmeister.“ Growth factor expression after distraction osteogenesis of human mandibles.“ 2nd International Symposium on Distraction Osteogenesis in Cranio-Maxillofacial Surgery. October 19-21, 2000, Stuttgart, Germany.

2001

29. C. Knabe, G. Berger, R. Gildenhaar, H. Zreiqat „The effect of various calcium phosphate ceramics and a bone cement on the expression of bone-related genes and proteins by human bone derived cells.“ „Beeinflussung der Gen- und Proteinexpression von Osteoblasten durch Kalziumphosphatkeramiken und einen Knochenzement.“ 33rd Annual Meeting of the German Society for Basic Research in Dentistry. January 11-12, 2001, Mainz, Germany, Proceedings p. 21.
30. C. Knabe, C.R. Howlett, R. Gildenhaar, G. Berger, J. Meyer, H. Zreiqat “The Effect of Rapidly Resorbable Calcium Phosphates and a Calcium Phosphate Bone Cement on the Expression of Bone-Related Genes and Proteins in vitro.“ 27th Annual Meeting of the Society for Biomaterials U.S.A., April 24-29, 2001, St. Paul, Minnesota, U.S.A., Transactions p. 24.
31. C. Knabe, C.R. Howlett. R. Gildenhaar, G. Berger, H. Zreiqat. „The Functional Expression of Osteoblasts Grown on Resorbable Calcium Phosphates,“ 9th International Congress on Reconstructive Preprosthetic Surgery, May 10-12, 2001, Kiel, Germany.
32. C. Knabe, C.R. Howlett, R. Gildenhaar, G. Berger, H. Zreiqat. „The Effect of Rapidly Resorbable Calcium Phosphates on the Expression of Bone-Related Genes and Proteins by Osteoblasts.“ „Beeinflußung der Gen- und Proteinexpression von Osteoblasten durch resorbierbare Kalziumphosphatkeramiken,“ Joint
33. Annual Meeting of the German Society for Oral Implantology and the German Society of Dentistry and Oral Medicine, October 11-13, 2001, Mannheim, Germany.
34. A. Bumann, E. Frank, T. Drechsler, C. Knabe. „A novel distractor for intra-alveolar distraction osteogenesis (IADO),“ “Lückenmanagement mit einem praxisgerechten System zur intraalveolären Distraktionsosteogenese (IADO).“ Joint Annual Meeting of the German Society for Oral Implantology and the German Society of Dentistry and Oral Medicine, October 11-13, 2001, Mannheim, Germany.
35. A. Bumann, J. Mah, C. Bourauel, C. Knabe, “The use of orthodontic miniature implants for orthodontic anchorage“ „Der Einsatz von praxisgerechten orthodontischen Mini-Implantaten (OMI) in der Kieferorthopädie.“ Annual Meeting of the German Society of Orthodontics. September 12-15, 2001, Friedrichshafen, Germany.
36. H. Zreiqat, C.R. Howlett, A. Zanettino, P. Evans, G. Schulze-Tanzil, C. Knabe, M. Shakibaei. “Mechanisms of magnesium-stimulated adhesion of osteoblastic cells to commonly used orthopaedic implants.” Annual Meeting of the American Society for Bone and Mineral Research, October 2001, Phoenix, Arizona, U.S.A. SU 064 Journal of Bone and Mineral Research, Vol 16, Suppl 1 September 2001, pp S328.

2002

37. C. Knabe, C.R. Howlett, B. Markovic, R. Gildenhaar, G. Berger, D. Reif, H. Zreiqat. “The Functional Expression of Human Bone Derived Cells Grown on Resorbable Bioactive Glass Ceramics.” 28th Annual Meeting of the Society for Biomaterials U.S.A., April 24-27, 2002, Tampa, U.S.A., Transactions p. 706.
38. C. Knabe, C.R. Howlett, B. Markovic, R. Gildenhaar, G. Berger, H. Zreiqat. „The Functional Expression of Osteoblasts Grown on Rapidly Resorbable Calcium Phosphates.“ Bioceramics 15 Meeting, December 4-8, 2002, Sydney, Australia.
39. H. Zreiqat, C.R. Howlett, A. Zannettino, P. Evans, C. Knabe, G. Schulze-Tanzil, M. Shakibaei. „Surface Modification of Bioceramics Affect Osteoblastic Cell Response.“ Bioceramics 15 Meeting, December 4-8, 2002, Sydney, Australia.
40. C. Knabe, M. Stiller, C.R. Howlett, R. Gildenhaar, G. Berger, H. Zreiqat. „The Effect of Bioactive Resorbable Glass Ceramics on the Expression of Bone-Related Genes and Proteins by Osteoblasts.“ „Beeinflußung der Gen- und Proteinexpression von Osteoblasten durch bioaktive resorbierbare Glaskeramiken,“ Joint Annual Meeting of the German, Austrian and Swiss Societies for Oral Implantology, December 4-7, 2002, Munich, Germany.

2003

41. C. Knabe, S. Nicklin, Y. Yu, W.R. Walsh, R.J. Radlanski, U.M. Gross, C. Marks, B. Hoffmeister. “Growth Factor Expression Following Distraction Osteogenesis of Human Mandibles.” 29th Annual Meeting of the Society for Biomaterials U.S.A., April 30-May 2, 2003, Reno, U.S.A., Transactions p. 74.
42. H. Zreiqat, G. Berger, R. Gildenhaar, C. Knabe. „The Functional Expression of Human Bone Derived Cells Grown on Rapidly Resorbable Calcium Phosphate Ceramics.“ Bioceramics 16 Meeting, November 6-11, 2003, Porto, Portugal.

2004

43. C. Knabe, G. Berger, R. Gildenhaar, D. Reif, C.R. Howlett, H. Zreiqat. „The Effect of Rapidly Resorbable Calcium Phosphates on the Expression of Bone-Related Genes and Proteins in vitro”, 7th World Biomaterials Congress, May 17th-21st 2004, Sydney, Australia, Transactions p. 1308.

44. H. Zreiqat, C. Knabe, P. Evans, R.J. Radlanski, M. Shakibaei. “Divalent Cations Incorporation into Titanium Implants triggers Signal Transduction and Bone Formation in Primary Human Osteoblast.” 7th World Biomaterials Congress, May 17th-21st 2004, Sydney, Australia, Transactions p. 611.

2005

45. C. Knabe, B. Kraska, P. Ducheyne, U. Gross. A Novel Method for Immunohistochemical Detection of Osteogenic Markers in Undecalcified Sections of Bone. 30th Annual Meeting of the Society for Biomaterials U.S.A., April 27-April 30, 2005, Memphis, U.S.A., Transactions p. 535.
46. M.Stiller, A. Rack, G. Weidemann, H. Riesemeier, J. Goebbels, C. Knabe. “Immunohistochemical and Synchroton-tomographic Evalulation of Biopsies Sampled after Sinus Floor Augmentation Using Tricalcium Phosphate Particles with Varying Porosity“ “Immunhistochemie und Synchrotron-CT zur Beurteilung humaner Biopsien nach zweizeitigem Sinuslift mit Beta-TCP”. Joint Annual Meeting of the German Society for Oral Implantology and the German Society of Dentistry and Oral Medicine, October 26-30, 2005, Berlin, Germany.DZZ (Deutsche Zahnärztliche Zeitschrift, “German Dental Journal”) 2005 (Suppl) A59.
47. A. Rack, C. Knabe, H.G. Gräber, M. Stiller, C. Apel, S. Zabler, I. Manke, G. Weidemann, H. Riesemeier, J. Goebbels, J. Banhardt. “Regenerated bone tissue and human tooth tissue studied with high resolution synchroton-tomography.” 24th BESSY Users' Meeting, December 1-2, 2005, Berlin, Germany.
    A. Rack, C. Knabe, M. Stiller, S. Zabler, Ch. Koch, G. Weidemann, H.
    Seligmann, H. Riesemeier, J. Goebbels. Studies with high resolution synchrotron-tomography of regenerated bone tissue using rapidly resorbable bone substitute materials
    BESSY Annual Report 2005, p. 421-422, CD-ROM

2006

48. C. Knabe, Ch. Koch, A. Rack, M. Stiller. Histological and Immunohistochemical Study of Biopsies Sampled after Sinus Floor Augmentation Using Tricalcium Phosphate Particles with Varying Porosity. 31st Annual Meeting of the Society for Biomaterials U.S.A., April 26-April 29, 2006 Pittsburgh, U.S.A., Transactions p. 371.
49. R. Gildenhaar, G. Berger, E. Lehmann, A. Houshmand, C. Knabe. „The effect of rapidly resorbable bone substitute materials on osteoblastic differentiation.” 2nd International Symposium INTERFACE BIOLOGY OF IMPLANTS, May 17-19, 2006, Rostock, Germany, Biomaterialien 2006; 7 (S1): p. 70.
50. C. Knabe, A. Houshmand, G. Berger, R. Gildenhaar, M. Stiller, P. Ducheyne. „Effect of rapidly resorbable calcium-alkali-orthophosphate bone substitute materials on the temporal expression of the osteoblastic phenotype *in vitro*.” Ceramics, Cells and Tissues - 10th Annual Seminar & Meeting: Materials for Scaffolding of Biologically Engineered Systems - Interfaces and interactions on a Nanoscale, May 23-27, 2006, Faenza, Italy. Proceedings p.27.
51. A. Rack, L. Helfen, S. Zabler, C. Knabe, M. Stiller, G. Weidemann, H. Riesemeier, J. Goebbels, J. Banhart. 3D image analysis and µ-synchrotron-tomography for studying multi-component, micro-structured material systems. 5th International Conference on Synchrotron Radiation in Materials Science (SRMS-5 Conference), Chicago, July 30-Aug. 2, 2006. Transactions SRMS5-187, p.187.
52. A. Rack, C. Knabe, M. Stiller, Ch. Koch, H. Seligmann, S. Zabler, G. Weidemann, J. Goebbels. Synchrotron-tomography for evaluation of bone tissue regeneration using rapidly resorbable bone substitute materials. 9th European Conference of Non-destructive testing, September 25-29, Berlin, Germany.
53. I. Kranz, Ch. Knabe, W. Oesterle, D.Klaffke, M. Griepentrog , M. Gemeinert, U. Gross. Cytokines of macrophages after phagocytosis of nano- or micro-sized corundum. 20th European Conference on Biomaterials, September 27 - October 1, 2006, Nantes, France.
54. A. Rack, C. Knabe, H. G. Gräber, M. Stiller, C. Apel, S. Zabler, T. Weitkamp, G. Weidemann, I. Manke, J. Goebbels. Regenerated bone tissue and human tooth tissue studied with high resolution synchrotron-tomography. Annual German Meeting on Research with Synchrotron Radiation, Ionic and Neutron Radiation. 2006 (SNI 2006), October 4-6, 2006, University of Hamburg, Hamburg, Germany Transactions M-P109.
55. R. Gildenhaar, G. Berger, E. Lehmann, M. Stiller, Ch. Koch, P. Ducheyne, A. Rack, H. Seligmann, S. Jonscher, C. Knabe. “A comparative study of the biogradability of calcium-alkali-orthophosphate ceramics in vitro and in vivo.” Bioceramics19, 19th International Symposium on Ceramics in Medicine, the 2006 Annual Meeting of the International Society for Ceramics in Medicine (ISCM)), October 10-13, 2006, Chengdu, China.

2007

56. A. Rack, M. Stiller, C. Knabe, O. Dalügge, Ch. Koch, G. Weidemann, H. Riesemeier, and J. Goebbels. Synchrotron microtomography and 3D image analysis for studying the degradability of biocompatible ceramics within biopsies sampled after sinus floor augmentation. The SPIE (International Society for Optical Engineering) Symposium on Biomedical Optics (BiOS) 2007, 20-25 January 2007 in San Jose, CA Proc. SPIE - Vol. 6430, 64301H (Feb. 6, 2007).
57. C. Knabe, G. Berger, R. Gildenhaar, Ch Koch, S. Jonscher, A Rack, H Seligmann, M Stiller, ‘Effect of rapidly resorbable calcium-alkali-orthophosphate bone substitute materials on osteogenesis and osteoblastic phenotype expression in vivo,’ Transactions 32nd Annual Meeting of the Society for Biomaterials U.S.A., April 18-21, 2007, Chicago, Illinois, USA, 262.

58. M. Stiller, D. Breyer, G. Weiner, C. Knabe. “The ovine maxillary sinus – an anatomical study for establishing an appropriate animal model for sinus floor augmentation“ Die Kieferhöhle des Schafes – eine anatomische Analyse zur Etablierung eines Tiermodells für die Sinusbodenelevation. 57th Annual Meeting of the German Society of Oral and Maxillofacial Surgery, May 17-19, Wiesbaden, Germany.
59. A. Rack, M. Stiller, C. Knabe, O. Dalügge, S. Zabler, Ch. Koch, G. Weidemann, H. Riesemeier, J. Goebbels. Implanted Bioceramics within Regenerating Bone Tissue Studied with Synchrotron Microtomography and 3D Image Analysis. European Congress and Exhibition on Advanced Materials and Processes, Nuremberg, Germany, September 10-13, 2007. Proceedings p. D11-2276.
60. R. Gildenhaar, G. Berger, E. Lehmann, C. Knabe. Development of Alkali Containing Calcium Phosphate Cements. Bioceramics20, 20th International Symposium on Ceramics in Medicine, the 2007 Annual Meeting of the International Society for Ceramics in Medicine (ISCM)), October 24-26, 2007, Nantes, France.
61. A. Rack, S. Zabler, H. Riesemeier, G. Weidemann, B. Müller, L. Helfen, M. Stiller, C. Knabe, J. Goebbels, J. Banhart. Nondestructive 3d insights into foamy metals and bioregenerative ceramics. 26th BESSY Users' Meeting, December 3-4, 2007, Berlin, Germany. In: Noble Traces, BESSY Highlights 2007, p.34-35.

2008

62. C. Knabe, G. Berger, R. Gildenhaar, Ch. Koch, S. Jonscher, A. Rack, P. Ducheyne, M. Stiller. Effect of a rapidly resorbable calcium-alkali-orthophosphate bone substitute material on bone formation and osteoblastic phenotype expression *in vivo*. (oral presentation) Transactions 54th Annual Meeting of the Orthopaedic Research Society, March 2-5, 2008, San Francisco, CA, USA, p.112.
63. C. Knabe, G. Berger, R. Gildenhaar, Ch. Koch, S. Jonscher, A. Rack, P. Ducheyne, M. Stiller. Effect of rapidly resorbable calcium-alkali-phosphate bone substitute materials on bone formation and osteoblastic phenotype expression *in vivo*. (oral presentation) Transactions 8th World Biomaterials Congress, May 28 - June 1, 2008, Amsterdam, The Netherlands, p. 035.
64. C. Knabe, M Stiller, G Berger, R Gildenhaar, J Kim, IM Shapiro, P Ducheyne. In vitro intracellular signaling studies of calcium phosphate bone grafting materials predict in vivo tissue growth. Society For Biomaterials Transactions 2008 Translational Biomaterial Research Symposium, September 11-13, 2008, Atlanta, Georgia, USA, p. 215.
65. D. Jörn, R. Gildenhaar, G. Berger, M. Stiller, C. Knabe. Behaviour of calcium alkali orthophosphate cements under simulated implantation conditions. 21st International Symposium on Ceramics in Medicine, the 2008 Annual Meeting of the International Society for Ceramics in Medicine (ISCM)), October 21-24, 2008, Buzios, Brasil.
66. Jörn D, R. Gildenhaar, G. Berger, M. Stiller, C. Knabe, S. Schlau. Influence of specimen preparation and particle size on the properties of calcium alkali orthophosphate cements. 15th Annual Meeting of the German Society for Biomaterials, November 20-22, 2008, Hamburg, Germany.
67. M. Stiller, R. Gildenhaar, C. Knabe, D. Jörn, A. Houshmand, A. Bednarek, C. Koch, A. Spitzer, Ch. Müller-Mai, G. Berger. „Development of resorbable calcium phosphate cements for their application in implant dentistry, maxillofacial surgery and traumatology - effect of these cements on osteoblast differentiation and bone formation in vivo - material science and *in vivo* studies. 8th Symposium in Bioceramics. German Society for Bioceramics and Materials Science, November 27, 2008, Berlin, Germany.
68. J. Kim, S. Radin, H. Qu, C. Knabe, M. Costache, D. Devore, P. Ducheyne. Early stage treatment of compartment syndrome using polymer-sol-gel composite growth factor delivery wound dressings. 26th Annual Army Science Conference, December 1-4, 2008, Orlando, USA.

2009

69. J. Kim, S. Radin, H. Qu, C. Knabe, M. Costache, D. Devore, P. Ducheyne. “Early Stage Treatment of Compartment Syndrome Using Polymer-Sol-Gel Composite Controlled Delivery Wound Dressings.” (Oral presentation) Armed Forces Institute of Regenerative Medicine (AFIRM) Annual Conference, January 14-16, 2009, St. Petersburg, USA.
70. C. Knabe, G. Berger, R. Gildenhaar, Ch. Koch, I. Axmann, S. Jonscher, A. Rack, P. Ducheyne, M. Stiller. "Effect of rapidly resorbable calcium-alkali-orthophosphate bone grafting materials on osteogenesis after sinus floor augmentation in sheep.” Transactions 35th Annual Meeting of the Society for Biomaterials U.S.A., April 22-25, 2009, San Antonio, Texas, USA, p. 262.
71. C. Knabe, J. Kim, C. Chen, V. Meausoone, S. Radin, P. Ducheyne. “In vitro surface reactions underlying bone bioactivity of calcium-alkali-orthophosphate bone grafting materials.” Transactions 35th Annual Meeting of the Society for Biomaterials U.S.A., April 22-25, 2009, San Antonio, Texas, USA, p. 359.
72. D. Jörn, A. Houshmand, R. Gildenhaar, U. Ploska, C. Knabe, M. Stiller, A. Bednarek, Ch. Koch, B. Hoffmeister, G. Berger. Development and characterization of rapid resorbable calcium-alkali-phosphate bone substitute cements for bone reconstruction in trauma and tumor patients. 59th Annual Meeting of the German Society for Oral and Maxillofacial Surgery, June 3-6, 2009, Vienna, Austria.

2010

73. C. Knabe, G Berger, R. Gildenhaar, A. Houshmand, Ch. Müller-Mai, A. Bednarek, Ch. Koch, D. Jörn and M. Stiller: Effect of resorbable calcium-alkali-orthophosphate bone substitute cements on osteogenesis after

implantation in the rabbit femur. Transactions 36th Annual Meeting of the Society for Biomaterials U.S.A., April 21-24, 2010, Seattle, Washington, USA, p. 10.

74. J. Kim, G. Berger, R. Gildenhaar, I. Shapiro, P. Ducheyne and C. Knabe: Survival and apoptosis in vitro of osteoblastic cells in contact with synthetic bone grafts Transactions 36th Annual Meeting of the Society for Biomaterials U.S.A., April 21-24, 2010, Seattle, Washington, USA, p. 830.
75. A. Rack, M. Stiller, O. Dalügge, T. Rack, C. Knabe, S. Zabler, J. Goebbels. Ex vivo investigations of bioceramic-supported bone regeneration using synchrotron microtomography and 3D image analysis. Annual Symposium of the European Synchroton Radiation Facility, Grenoble, France, April 30, 2010.

2011

76. C. Knabe, G. Berger, R. Gildenhaar, Ch. Koch, A. Bednarek, S.Jonscher, A. Rack, M. Stiller. Effect of rapidly resorbable calcium-alkali-orthophosphate bone grafting materials on bone formation and osteoblastic phenotype expression *in vivo*. Transactions 37th Annual Meeting of the Society for Biomaterials U.S.A., April 13-16, 2011, Orlando, Florida, USA, p.29.

2012

77. H. Qu, C. Knabe, S. Radin, S; J. Garino, P. Ducheyne. Prevention of Pin Tract Infection in External Fixation using Bactericidal Sol-Gel Thin Films in vivo. Transactions 58th Annual Meeting of the Orthopaedic Research Society, February 4-7, 2012, San Francisco, CA, USA, p.1107.
78. C. Knabe, G. Berger, R. Gildenhaar**, P. Ducheyne, M. Stiller. Rapidly resorbable bioactive ceramic grafting materials for craniofacial bone regeneration – translational research in regenerative medicine and implant dentistry. E-MRS (European Materials Research Society) 2012 SPRING MEETING, invited presentation. May 14-18, 2012.
79. C. Knabe, G. Berger, R. Gildenhaar, F. Dombrowski, K. Reiter, J. Heggemann, M. Stiller. Novel putty-like resorbable calcium alkali orthophosphate bone substitute cements for restoring contours in craniofacial surgery. Proceedings 9th World Biomaterials Congress. June 1-5, 2012, Chengdu, China, p.776.
80. M.A. Lopez-Heredia, J.J.P. van der Beucken, M. Kersten, J. Wolke, C. Knabe and J.A. Jansen**.** Calcium phosphate cements loaded with mesenchymal stem cells encapsulated in sodium alginate spheres. Proceedings 9th World Biomaterials Congres. June 1-5, 2012, Chengdu, China, p. 461.

2013

81. C. Knabe, D. Barnemitz, A. Genzel, F. Peters, W.-D. Hübner. Effect of Silicon-Doped Calcium Phosphate Bone Grafting Materials On Bone Formation And Osteoblastic Phenotype Expression In Vivo. Transactions 59th Annual Meeting of the Orthopaedic Research Society, Jan 26-29, 2013, San Antonio, TX, USA, p.777.
82. M. A. Lopez-Heredia, R. Gildenhaar, G. Berger, U. Linow, C. Gomes, J. Günster, A. Houshmand, M. Stiller, C. Knabe. Dynamic cell culture on calcium alkali orthophosphates scaffolds. Annual Meeting of the GRIBOI ("Groupe de Recherche Interdisciplinaire sur les Biomatériaux Ostéo-articulaires Injectables" or "Interdisciplinary Research Society for Bone and Joint Injectable Biomaterials") April 7-10, 2013, Boston, U.S.A.
83. C. Knabe, G. Berger, R. Gildenhaar, F. Dombrowski, K. Reiter, A. Houshmand, M. Stiller. Effect of novel putty-like resorbable calcium alkali orthophosphate bone substitute cements designed for restoring contours in craniofacial surgery on bone formation and osteoblastic phenotype expression in vivo. Transactions 39th Annual Meeting of the Society for Biomaterials U.S.A., April 10-13, 2013, Boston, MA, USA, p. 875.
84. M. A. Lopez-Heredia, R. Gildenhaar, G. Berger, U. Linow, C. Gomes, J. Günster, A. Houshmand, M. Stiller, C. Knabe. Effect of stressed and unstressed cell culture environments on the survival of MC3T3 cells cultured on calcium phosphates. 6th International Symposium on Apatite and Correlative Biomaterials ISACB6, June 6-8, 2013, Nantes, France.
85. C. Knabe, M.A. Lopez Heredia, D. Barnemitz, A. Genzel, F. Peters, W.-D. Hübner. Effect of silicon-doped calcium phosphate bone substitute materials on bone formation and osteoblastic phenotype expression in vivo. Proceedings 25th Symposium an Annual Meeting of the International Society for Ceramics in Medicine (Bioceramics 25), November 7-10, 2013, Bucharest, Romania, p. 74.

2014

86. C. Knabe, E. Kluk, M. Bohner, M.A. Lopez Heredia, C. Müller-Mai, M. Stiller. "Effect of particulate and putty-like tricalcium phosphate-based bone grafting materials on bone formation, volume stability and osteogenic marker expression after bilateral sinus floor augmentation in humans." Transactions of the 40th Annual Meeting of the Society for Biomaterials U.S.A., April 16-19, 2014, Denver, Colorado, USA, p. 34.
87. T. Mann-Gow, J. Blaivas , B. King , C. Sikavi, A. El-Ghannam, C. Knabe, M. Kida, M. Plante, P. Zvara. Testing alumina ceramic beads as a bulking agent for treatment of stress urinary incontinence in a rat. Proceedings of the International Continence Society 2014 Annual Meeting; October 20-24, 2014, Rio de Janeiro, Brazil, p. 789.
88. M. A. Lopez-Heredia, D. Barnewitz, A. Genzel, M. Stiller, F. Peters, W.-D. Huebner, B. Stang, A. Kuhr, C. Knabe. In vivo osteogenesis assessment of a tricalcium phosphate paste and a tricalcium phosphate foam bone grafting material. Proceedings of the 26th International Symposium on Ceramics in Medicine, the 2014

Annual Meeting of the International Society for Ceramics in Medicine (ISCM), Nov. 6-8 2014, Barcelona, Spain, p. 54.

89. A. Zocca, H. Elsayed, E. Bernardo, J. Guenster, C. Gomes, M.A. Lopez, C. Knabe, P. Colombo. Synthesis and 3D-printing of silicate bioceramics from preceramic polymers and fillers. Proceedings of the 38th International Conference on Advanced Ceramics and Composites. January 26-31, 2014, Daytona, USA, p. 87.
90. A. Zocca, H. Elsayed, E. Bernardo, J. Guenster, C. Gomes, M.A. Lopez, C. Knabe, P. Colombo. Three dimensional printing of preceramic polymers. 89th Annual Meeting of the German Society for Ceramic Materials, March 14-17, 2014, Clausthal-Zellerfeld, Germany.

2015

91. C. Knabe, M. Lopez-Heredia, D. Barnewitz, A. Genzel, F. Peters, A. Kuhr, B. Stang, W.-D. Huebner. Effect of Tricalcium Phosphate-based Paste- and Foam-like Bone Grafting Materials on Bone Regeneration and Osteogenic Marker Expression in vivo. Transactions of the 41th Annual Meeting of the Society for Biomaterials U.S.A., April 15-18, 2015, Charlotte, North Carolina, USA, p. 34.
92. T. Briggs, S. Bhattacharyya, H. Qu, N. Sheth, C. Knabe, P. Ducheyne. Mitigation of MRSA infection in vivo by dual local controlled delivery of anti-infective agents. Transactions of the 41th Annual Meeting of the Society for Biomaterials U.S.A., April 15-18, 2015, Charlotte, North Carolina, USA, p. 79.
93. D. Adel-Khattab, K.A. Ghaffar, A. Gamal, **C. Knabe,** M. EL-Mofty**.** Autogenous Bone Ring with and without Simultaneous Implant Placement for localized Alveolar Ridge Augmentation. ICOI (International Congress of Oral Implantologists) World Congress XXXII. Berlin, Germany, October 15-17, 2015.
94. J Krhut, T Mann-Gow, **C Knabe**, A El-Ghannam, B King, P Zvara. Silica calcium phosphate bioceramic as new bulking agent–initial animal study. Annual Meeting of the European Association of Urology, Madrid, Spain, March 20-24, 2015.

2016

95. H. Qu, **C. Knabe**, Z. Zawacki, T. Schaer, U. Wölfle, P Ducheyne. Micron-Thin Bactericidal Sol-Gel Films for the Treatment of Periprosthetic Infection–A 3-month Ovine Study, Transactions of the 2016 Annual Meeting of the Orthopedic Research Society, March 4-8, 2016, Orlando.Florida, USA, p. 1226
96. **Knabe C**, Knauf T, Peleska B, Adel D, Berger G, Gildenhaar R, Wirth C, Rack A, Huebner W-D, Peters F, Stiller M. Effect of a rapidly resorbable calcium alkali phosphate bone grafting material on bone formation and osteogenic marker expression after sinus floor augmentation in humans. Proceedings 10th World Biomaterials Congress, May17-22, 2016, Montreal, Canada p. 506.5
97. H. Qu, **C. Knabe**, Z. Zawacki, T. Schaer, U. Wölfle, P. Ducheyne. Micron-Thin Bactericidal Sol-Gel Coated Intramedullary Nails for the Prevention and Treatment of Infection. Proceedings 10th World Biomaterials Congress, May17-22, 2016, Montreal, Canada p. P.0482
98. D. Adel-Khattab, F.Giacomini, B.Peleska, R.Gildenhaar, G.Berger, C. Gomes, U. Linow, M. Hardt, J. Günster, A. Houshmand, M. Stiller, K.A. Ghaffar, A.Gamal, M. EL-Mofty, **C. Knabe.** An intrinsic angiogenesis approach and varying bioceramic scaffold architecture affect blood vessel formation in bone tissue engineering in vivo. 28th Annual Meeting of the International Society for Ceramics in Medicine, 18-22.2016, Charlotte, North Carolina, USA
99. D. Adel-Khattab, F. Giacomini, B.Peleska, R.Gildenhaar, G.Berger, C. Gomes, U.Linow, M.Hardt, J.Günster, A.Houshmand, M.Stiller, K.A. Ghaffar, A.Gamal, M. EL-Mofty, **C. Knabe.** Development of a synthetic tissue engineered 3D printed bioceramic-based bone graft with homogenously distributed osteoblasts and mineralizing bone matrix in vitro. 28th Annual Meeting of the International Society for Ceramics in Medicine, 18-22.2016, Charlotte, North Carolina, USA
100. D. Adel-Khattab, K.A. Ghaffar, A.Gamal, M. EL-Mofty, **C. Knabe.** Autogenous bone ring with and without simultaneous implant placement for localoized alveolar ridge augmentation (Case series). Deutscher Zahnärztetag 2016, 11.-12. November 2016.

101. C. Knabe, A. Mele, P.H. Kann, B. Peleska, D. Adel-Khattab, H. Renz, A. Reuss, M. Bohner, M. Stiller. Effect of hormone levels, gender, body mass index, age and life-style parameters on human craniofacial bone regeneration with tricalcium phosphate grafts. Transactions of the 43rd Annual Meeting of the Society for Biomaterials U.S.A., April 4-8, 2017, Minneapolis, Minnesota, USA p.4.
102. D. Adel-Khattab, F. Giacomini, B.Peleska, R.Gildenhaar, G.Berger, C. Gomes, U.Linow, M.Hardt, J.Günster, A.Houshmand, M.Stiller, K.A. Ghaffar, A.Gamal, M. EL-Mofty, **C. Knabe**. Development of a synthetic tissue engineered 3D printed bioceramic-based bone graft with homogenously distributed osteoblasts and mineralizing bone matrix in vitro. Transactions of the 43rd Annual Meeting of the Society for Biomaterials U.S.A., April 4-8, 2017, Minneapolis, Minnesota, USA p.226.
103. **C. Knabe**, Knauf T, Adel-Khattab D, Peleska B, Hübner WD, Peters F, Rack A, Gildenhaar R, Berger G, Günster J, Houshmand A, Stiller M. Effect of a rapidly resorbable calcium alkali phosphate bone grafting material on osteogenesis after sinus floor augmentation in humans. Proceedings of the 29th Annual Meeting of the International Society for Ceramics in Medicine, October 25-27, 2017, Toulouse, France. p. 268.

104. D. Adel-Khattab, **C. Knabe**, E. Kluk, M. Stiller. Effect of a particulate and a putty-like tricalcium phosphate-based bone grafting material on bone formation, volume stability and osteogenic marker expression after bilateral sinus floor augmentation in humans. Proceedings of the 29th Annual Meeting of the International Society for Ceramics in Medicine, October 25-27, 2017, Toulouse, France, p. 267.
105. U. Wölfle, **C. Knabe**, T. Briggs, S. Bhattacharyya, H. Qu, N. Sheth, P. Ducheyne. Mitigation of MRSA infection in vivo by dual local controlled delivery of vancomycin and farnesol. Proceedings of the 29th Annual Meeting of the International Society for Ceramics in Medicine, October 25-27, 2017, Toulouse, France, p.237

2018

106. **C. Knabe**, M Kampschulte, B Peleska, R Gildenhaar, G Berger, C Gomes, U Linow, J Guenster, A Houshmand, M Stiller, K Abdel Ghaffar, A Gamal, L-Mofty, D. Adel-Khattab. An Intrinsic Angiogenesis Approach and Varying Bioceramic Scaffold Architecture Affect Blood Vessel Formation in Bone Tissue Engineering in vivo, Transactions of the 44th Annual Meeting of the Society for Biomaterials U.S.A., April 11-14, 2018, Atlanta, Georgia, USA p.62.
107. H. Ensir, M. Stiller, T. Knauf, D. Adel-Khattab, G. Thomas, W.-D. Hübner, F. Peters, A. Rack, R.Gildenhaar, G. Berger, J. Günster, **C. Knabe**. Effect of a bioactive silica containing calcium alkali phosphate bone grafting material on bone formation, osteogenic and angiogenic marker expression after sinus floor augmentation in humans. Proceeding of the Consensus Conference "Mini Invasivity VS Traditional Approach in Periodontology and Implantology" by SENAME Society, September 19 -22, 2018, Naples, Italy.

2019

108. **C. Knabe**, M Stiller, M Kampschulte, B Peleska, R Gildenhaar, G Berger, C Gomes, U Linow, J Guenster, A Houshmand, K Abdel Ghaffar, A Gamal, L-Mofty, D. Adel-Khattab. Bioengineered 3D printed calciumalkaliorthophosphate-based bone graft facilitates repair of critical-size segmental discontinuity bone defects in vivo. Transactions of the 45th Annual Meeting of the Society for Biomaterials U.S.A., April 3-6, 2018, Seattle, Washington, USA p.213.
109. Woelfle U.C., T. Briggs, S. Bhattacharyya, H. Qu, N. Sheth, **C. Knabe**, P. Ducheyne. Coatings on titanium for controlled dual drug delivery in vivo. Proceedings of the Annual Meeting of the International Association of Dental Research 2019, Vancouver, Canada. June 19-22, 2019.
110. Rezk M , Bednarek A, Stiller M, **Knabe C**. Effect of two β-tricalcium phosphate bone grafting materials with varying macro- and micromorphology on bone formation and osteogenic marker expression 6 months after sinus floor augmentation in humans. Proceedings of the Annual Meeting of the European Society for Biomaterials September 9-13, 2019, Dresden, Germany, p. 902.
111. Wölfle U.C., **C. Knabe**, T. Briggs, S. Bhattacharyya, H. Qu, N. Sheth, P. Ducheyne. Mitigation of MRSA infection in vivo by dual local controlled drug delivery. The Göttingen Spirit Summer School: Symposium on mineralization and biometric concepts in dental research, 18.-19.09.2018, Göttingen, Germany.
112. **Knabe C**, Berger, Gildenhaar R, Dombrowski F, Heggemann J, Tolanov M, Reiter K, A. Houshmand A, Meier N, Stiller M. Novel putty-like resorbable calcium alkali orthophosphate bone substitute cements for restoring contours in craniofacial surgery. Proceedings of the 31st Annual Meeting of the International Society for Ceramics in Medicine, November 21-23, 2019, New Orleans, USA.
113. Khattab D, Hardt M, Stiller M, Gildenhaar R, Berger G, Gomes C, Linow U, Peleska B, Günster J, Houshmand A, **Knabe C**. Evaluation of a Synthetic 3-D printed Bioceramic-Based Bone Graft with Terminally Differentiated Osteoblasts and Mineralizing Bone Matrix in vitro. Proceedings of the 31st Annual Meeting of the International Society for Ceramics in Medicine, November 21-23, 2019, New Orleans, USA.

2020

114. Meier N, Müller-Mai B, Jennissen HP, Laub M, Fischer H, **Knabe C**. Effect of BMP-2 carrying β-tricalcium phosphate scaffolds on bone formation and osteogenic marker expression after implantation in the rabbit femur. Proceedings 11th World Biomaterials Congress, Dec 8-11, 2020, Glasgow, UK.

2021

115. **Knabe C**, Mele A, Kann PH, Adel-Khattab D, Renz H, Reuss A, Stiller M. Gender-related host factors modulate human craniofacial bone regeneration with bioactive tricalcium phosphate grafts. Transactions of the 48th Annual Meeting of the Society for Biomaterials U.S.A., April 20-23, 2021, Chicago, Ilinois, USA p.484.

2022

116. **Knabe C**, Barnewitz D, Genzel A, Peters F, Kuhr A, Stang B, Huebner W-D. Effect of Tricalcium Phosphate Paste- and Foam Bone Grafting Materials on Osteogenesis in vivo. Transactions of the 49th Annual Meeting of the Society for Biomaterials U.S.A., April 27-30, 2022, Baltimore, Maryland, USAp.693.

2023

117. **Knabe C**, T Knauf, R Gildenhaar, G Berger, J Günster, J Wilbig, D Adel-Khattab,3, A Rack, M Stiller. Translation of a bioactive calcium alkali orthophosphate (CAOP) bone grafting material from bench to bedside & effect of this Si-CAOP on craniofacial bone regeneration and angiogenesis in humans. Transactions of the 50th Annual Meeting of the Society for Biomaterials U.S.A., April 19 – 22, 2023 in San Diego, USA, p. 486.
118. Neissen N, Müller-Mai C, Jennissen HP, Laub M, Fischer F, **Knabe C**. Effect of pore size and dose of BMP-functionalized β-tricalcium phosphate scaffolds on bone formation and osteogenic marker expression after

implantation in the rabbit femur. Proceedings of the 3rd Annual Meeting of the International Society for Ceramics in Medicine, October 17-20, 2024, Soluthurn, Switzerland, p.127

2024

119. El-Ghannam A, **Knabe C**, Zvara P, Bhattarai N, Shrestha S. Immunomodulatory effect of SCPC bioactive ceramic promotes wound healing and muscle tissue regeneration. Transactions 12th World Biomaterials Congress, May 26-31, 2024, Daegu, Korea, P3-164 O-T03F-0154.

2025

120. Neissen N, Müller-Mai C, Jennissen HP, Laub M, Fischer F, **Knabe C**. Effect of pore size and dose of BMP-functionalized β-tricalcium phosphate scaffolds on osteogenesis and bone regeneration of critical-size femoral defects in rabbits. Transactions of the 50th Annual Meeting of the Society for Biomaterials U.S.A., April 9-12, 2025, Chicago, Illinos, USA p.7.