

Publication list - 2016

1. Anderud, J., Jimbo, R., Abrahamsson, P., Adolfsson, E., Malmstrom, J. & Wennerberg, A. (2016). The impact of surface roughness and permeability in hydroxyapatite boneregeneration membranes. *Clinical Oral Implants Research*, 27(8), 1047-1054.
2. Aoki, S., Hayashi, M., Seki, K. & Hirahara, F. (2016). Preterm premature rupture of membrane after polypectomy using an Endolooppolydioxanone suture II. *Clinical Case Reports*, 4(4), 331-2.
3. Bjorklund, S. & Kocherbitov, V. (2016). Hydration-Induced Phase Transitions in Surfactant and Lipid Films. *Langmuir*, 32(21), 5223-5232.
4. Bjorklund, S., Quoc Dat Pham , , Jensen, L., Knudsen, N., Nielsen, L., Ekelund, K. . . Sparr, E. (2016). The effects of polar excipients transcutol and dexpanthenol on molecular mobility, permeability, and electrical impedance of the skin barrier. *Journal of Colloid and Interface Science*, 479, 207-220.
5. Braian, M., Jimbo, R. & Wennerberg, A. (2016). Production tolerance of additive manufactured polymeric objects for clinical applications. *Dental Materials*, 32(7), 853-861.
6. Cecchinato, F., Atefyekta, S., Wennerberg, A., Andersson, M., Jimbo, R. & Davies, J. R. (2016). Modulation of the nanometer pore size improves magnesium adsorption into mesoporous titania coatings and promotes bone morphogenic protein 4 expression in adhering osteoblasts. *Dental Materials*, 32(7), E148-E158.
7. Chen, J., Shinde, S., Subedi, P., Wierzbicka, C., Sellergren, B., Helling, S. . . Marcus, K. (2016). Validation of molecularly imprinted polymers for side chain selective phosphopeptide enrichment. *Journal of Chromatography A*, 1471, 45-50.
8. Cheng, L., Sun, X., Zhao, X., Wang, L., Yu, J., Pan, G. . . Cui, W. (2016). Surface biofunctional drug-loaded electrospun fibrous scaffolds for comprehensive repairing hypertrophic scars. *Biomaterials*, 83, 169-81.
9. Chrcanovic, B. R., Albrektsson, T. & Wennerberg, A. (2016). Bisphosphonates and dental implants: A meta-analysis. *Quintessence International*, 47(4), 329-+.
10. Chrcanovic, B. R., Albrektsson, T. & Wennerberg, A. (2016). Dental implants in irradiated versus nonirradiated patients: A meta-analysis. *Head and Neck-Journal for the Sciences and Specialties of the Head and Neck*, 38(3), 448-481.
11. Chrcanovic, B. R., Albrektsson, T. & Wennerberg, A. (2016). Dental Implants in Patients Receiving Chemotherapy: A Meta-Analysis. *Implant Dentistry*, 25(2), 261-271.
12. Chrcanovic, B. R., Kisch, J., Albrektsson, T. & Wennerberg, A. (2016). Bruxism and dental implant treatment complications: a retrospective comparative study of 98 bruxer patients and a matched group. *Clinical Oral Implants Research*
13. Chrcanovic, B. R., Kisch, J., Albrektsson, T. & Wennerberg, A. (2016). Survival of dental implants placed in sites of previously failed implants. *Clinical Oral Implants Research*
14. Chrcanovic, B., Albrektsson, T. & Wennerberg, A. (2016). Survival and Complications of Zygomatic Implants: An Updated Systematic Review. *Journal of Oral and Maxillofacial Surgery*, 74(10), 1949-1964.
15. Chrcanovic, B., Albrektsson, T. & Wennerberg, A. (2016). Turned versus anodised dental implants: a meta-analysis. *Journal of Oral Rehabilitation*, 43(9), 716-728.
16. Chrcanovic, B., Kisch, J., Albrektsson, T. & Wennerberg, A. (2016). Bruxism and dental implant failures: a multilevel mixed effects parametric survival analysis approach. *Journal of Oral Rehabilitation*, 43(11), 813-823.

17. Chrcanovic, B., Kisch, J., Albrektsson, T. & Wennerberg, A. (2016). Factors Influencing Early Dental Implant Failures. *Journal of Dental Research*, 95(9), 995-1002.
18. Coelho, P., Zavanelli, R. A., Salles, M. B., Yenyol, S., Tovar, N. & Jimbo, R. (2016). Enhanced Bone Bonding to Nanotextured Implant Surfaces at a Short Healing Period: A Biomechanical Tensile Testing in the Rat Femur. *Implant Dentistry*, 25(3), 322-327.
19. Conghaile, P., Falk, M., MacAodha, D., Yakovleva, M. E., Gonaus, C., Peterbauer, C. K. . . . Leech, D. (2016). Fully Enzymatic Membraneless Glucose/Oxygen Fuel Cell That Provides 0.275 mA cm⁻² in 5 mM Glucose, Operates in Human Physiological Solutions, and Powers Transmission of Sensing Data. *Analytical Chemistry*, 88(4), 2156-2163.
20. Czolkos, I., Dock, E., Tønning, E., Christensen, J., Winther-Nielsen, M., Carlsson, C. . . . Emneus, J. (2016). Prediction of wastewater quality using amperometric bioelectronic tongues. *Biosensors & Bioelectronics*, 75, 375-382.
21. Davies, J., Perry, N. & Richardson, D. (2016). Exploring the experiences of medical students learning sexual history taking: a qualitative study. *Sexually Transmitted Infections*, 92(5), 352-352.
22. Di Bari, C., Goni-Urtiaga, A., Pita, M., Shleev, S., Toscano, M. D., Sainz, R. . . . De Lacey, A. L. (2016). Fabrication of high surface area graphene electrodes with high performance towards enzymatic oxygen reduction. *Electrochimica Acta*, 191, 500-509.
23. Di Bari, C., Shleev, S., De Lacey, A. L. & Pita, M. (2016). Laccase-modified gold nanorods for electrocatalytic reduction of oxygen. *Bioelectrochemistry*, 107, 30-36.
24. El-Schich, Z., Abdullah, M., Shinde, S., Dizeyi, N., Rosen, A., Sellergren, B. . . . Wingren, A. G. (2016). Different expression levels of glycans on leukemic cells—a novel screening method with molecularly imprinted polymers (MIP) targeting sialic acid. *Tumor Biology*, 37(10), 13763-13768.
25. Galli, S., Andersson, M., Jinno, Y., Karlsson, J., He, W., Xue, Y. . . . Jimbo, R. (2016). Magnesium release from mesoporous carriers on endosseous implants does not influence bone maturation at 6 weeks in rabbit bone. *Journal of Biomedical Materials Research. Part B, Applied Biomaterials*
26. Galli, S., Hammel, J., Herzen, J., Damm, T., Jimbo, R., Beckmann, F. . . . Willumeit-Roemer, R. (2016). Evaluation of the degradation behavior of resorbable metal implants for in vivo osteosynthesis by synchrotron radiation based x-ray tomography and histology. In *Developments in X-Ray Tomography X*
27. Galli, S., Jimbo, R., Naito, Y., Berner, S., Dard, M. & Wennerberg, A. (2016). Chemically modified titanium-zirconium implants in comparison with commercially pure titanium controls stimulate the early molecular pathways of bone healing. *Clinical Oral Implants Research*
28. Ghariani, L., Segaan, L., Rayyan, M. M., Galli, S., Jimbo, R. & Ibrahim, A. (2016). Does crown/implant ratio influence the survival and marginal bone level of short single implants in the mandibular molar? A preliminary investigation consisting of 12 patients. *Journal of Oral Rehabilitation*, 43(2), 127-135.
29. Gonzalez-Arribas, E., Pankratov, D., Gounel, S., Mano, N., Blum, Z. & Shleev, S. (2016). Transparent and Capacitive Bioanode Based on Specifically Engineered Glucose Oxidase. *Electroanalysis*, 28(6), 1290-1297.
30. Halldin, A., Jimbo, R., Johansson, C. B., Gretzer, C. & Jacobsson, M. (2016). Improved osseointegration and interlocking capacity with dual acid-treated implants: a rabbit study. *Clinical Oral Implants Research*, 27(1), 22-30.
31. Halldin, A., Jinno, Y., Galli, S., Ander, M., Jacobsson, M. & Jimbo, R. (2016). Implant stability and bone remodeling up to 84 days of implantation with an initial static strain. An in vivo and theoretical investigation. *Clinical Oral Implants Research*, 27(10), 1310-1316.

32. Han, B., Zhou, K., Li, Z., Sun, B., Ni, Q., Meng, X. . . . Zhou, Z. (2016). Characterization of the First Fungal Glycosyl Hydrolase Family 19 Chitinase(NbchiA) from *Nosema bombycis* (Nb). *The Journal of Eukaryotic Microbiology*, 63(1), 37-45.
33. Hedegaard, S., Cardenas, M., Barker, R., Jorgensen, L. & van de Weert, M. (2016). Lipidation Effect on Surface Adsorption and Associated Fibrillation of the Model Protein Insulin. *Langmuir*, 32(28), 7241-7249.
34. Jagadeesan, K. K., Wierzbicka, C., Laurell, T., Sellergren, B., Shinde, S. & Ekstrom, S. (2016). Multiplexed MALDI-MS arrays for screening of MIP solid phase extraction materials. *Journal of Chromatography B-Analytical Technologies in the Biomedical and Life Sciences*, 1021, 213-220.
35. Jagalski, V., Barker, R., Topgaard, D., Guenther-Pomorski, T., Hamberger, B. & Cardenas, M. (2016). Biophysical study of resin acid effects on phospholipid membrane structure and properties. *Biochimica Et Biophysica Acta-Biomembranes*, 1858(11), 2827-2838.
36. Jimbo, R., Nakano, T. & Sawase, T. (2016). Alignment of Biological Apatite c-Axis Under Functional Loading: A Preliminary Report. *Implant Dentistry*, 25(5), 594-598.
37. Johansson, P., Jimbo, R., Naito, Y., Kjellin, P., Currie, F. & Wennerberg, A. (2016). Polyether ether ketone implants achieve increased bone fusion when coated with nano-sized hydroxyapatite: a histomorphometric study in rabbit bone. *International Journal of Nanomedicine*, 11, 1435-1442.
38. Jokstad, A., Sanz, M., Ogawa, T., Bassi, F., Levin, L., Wennerberg, A. . . . Romanos, G. E. (2016). A Systematic Review of the Role of Implant Design in the Rehabilitation of the Edentulous Maxilla. *International Journal of Oral & Maxillofacial Implants*, 31, S43-S99.
39. Kinnby, B. & de Paz, L. E. (2016). Plasminogen coating increases initial adhesion of oral bacteria in vitro. *Microbial Pathogenesis*, 100, 10-16.
40. Kocherbitov, V. & Soderman, O. (2016). Effect of Oligomerization of Counterions on Water Activity in Aqueous Cationic Surfactant Systems. *Journal of Physical Chemistry B*, 120(28), 6961-6968.
41. Kocherbitov, V. (2016). The nature of nonfreezing water in carbohydrate polymers. *Carbohydrate Polymers*, 150, 353-358.
42. Lahens, B., Neiva, R., Tovar, N., Alifarag, A., Jimbo, R., Bonfante, E. A. . . . Coelho, P. G. (2016). Biomechanical and histologic basis of osseodensification drilling for endosteal implant placement in low density bone. An experimental study in sheep. *Journal of the Mechanical Behavior of Biomedical Materials*, 63, 56-65.
43. Lind, T. & Cardenas, M. (2016). Understanding the formation of supported lipid bilayers via vesicle fusion-A case that exemplifies the need for the complementary method approach (Review. *Biointerphases*, 11(2), 020801-020801.
44. Lisak, G., Arnebrant, T., Lewenstam, A., Bobacka, J. & Ruzgas, T. (2016). In Situ Potentiometry and Ellipsometry: A Promising Tool to Study Biofouling of Potentiometric Sensors. *Analytical Chemistry*, 88(6), 3009-3014.
45. Liu, S., Pan, J., Zhu, H., Pan, G., Qiu, F., Meng, M. . . . Yuan, D. (2016). Graphene oxide based molecularly imprinted polymers with double recognition abilities: The combination of covalent boronic acid and traditional non-covalent monomers. *Chemical Engineering Journal*, 290, 220-231.
46. Liu, X., Zhou, L., Chen, X., Liu, T., Pan, G., Cui, W. . . . He, F. (2016). Culturing on decellularized extracellular matrix enhances antioxidant properties of human umbilical cord-derived mesenchymal stem cells. *Materials Science & Engineering. C, Materials for Biological Applications*, 61, 437-48.
47. Madsen, J., Sotres, J., Pakkanen, K., Efler, P., Svensson, B., Abou Hachem, M. . . . Lee, S. (2016). Structural and Mechanical Properties of Thin Films of Bovine Submaxillary Mucin versus Porcine Gastric Mucin on a Hydrophobic Surface in Aqueous Solutions. *Langmuir*, 32(38), 9687-9696.

48. Mahmood, D., Linderoth, E., Wennerberg, A. & Von Steyern, P. V. (2016). Influence of core design, production technique, and material selection on fracture behavior of yttria-stabilized tetragonal zirconia polycrystal fixed dental prostheses produced using different multilayer techniques: split-file, over-pressing, and manually built-up veneers. *Clinical Cosmetic and Investigational Dentistry*, 8, 15-27.
49. Maimaitiyili, T., Steuwer, A., Blomqvist, J., Bjerken, C., Blackmur, M., Zanellato, O. . . . Ribeiro, F. (2016). Observation of the delta to epsilon Zr-hydride transition by in-situ synchrotron X-ray diffraction. *Crystal Research and Technology*, 51(11), 663-670.
50. Neilands, J., Bikker, F. & Kinnby, B. (2016). PAI-2/SerpinB2 inhibits proteolytic activity in a *P.gingivalis*-dominated multispecies bacterial consortium. *Archives of Oral Biology*, 70, 1-8.
51. Neiva, R., Tovar, N., Jimbo, R., Gil, L., Goldberg, P., Barbosa, J. P. . . . Coelho, P. G. (2016). Guidelines for Clinical Management of Laser-Etched (Laser-Lok) Abutments in Two Different Clinical Scenarios: A Preclinical Laboratory Soft Tissue Assessment Study. *International Journal of Periodontics & Restorative Dentistry*, 36(3), 339-345.
52. Neiva, R., Tovar, N., Jimbo, R., Gil, L., Goldberg, P., Barbosa, J. P. . . . Coelho, P. G. (2016). The Effect of Laser-Etched Surface Design on Soft Tissue Healing of Two Different Implant Abutment Systems: An Experimental Study in Dogs. *International Journal of Periodontics & Restorative Dentistry*, 36(5), 673-679.
53. Pan, G., Sun, S., Zhang, W., Zhao, R., Cui, W., He, F. . . . Yang, H. (2016). Biomimetic Design of Mussel-Derived Bioactive Peptides for Dual-Functionalization of Titanium-Based Biomaterials. *Journal of the American Chemical Society*, 138(45), 15078-15086.
54. Pankratov, D., Conzuelo, F., Pinyou, P., Alsaoub, S., Schuhmann, W. & Shleev, S. (2016). A Nernstian Biosupercapacitor. *Angewandte Chemie-International Edition*, 55(49), 15434-15438.
55. Pankratov, D., Gonzalez-Arribas, E., Blum, Z. & Shleev, S. (2016). Tear Based Bioelectronics. *Electroanalysis*, 28(6), 1250-1266.
56. Pankratov, D., Ohlsson, L., Gudmundsson, P., Halak, S., Ljunggren, L., Blum, Z. . . . Shleev, S. (2016). Ex vivo electric power generation in human blood using an enzymatic fuel cell in a vein replica. *Rsc Advances*, 6(74), 70215-70220.
57. Partiyani, A., Osman, E., Rayyan, M. M., Aboushelib, M., Ibrahim, A. & Jimbo, R. (2016). Fracture resistance of three-unit zirconia fixed partial denture with modified framework. *Odontology*, 105(1), 62-67.
- 58.
59. Pham QD, Björklund S, Engblom J, Topgaard D, Sparr E. (2016) Chemical penetration enhancers in stratum corneum - Relation between molecular effects and barrier function. *J Control Release*. 2016 Jun 28;232:175-87.
60. Prananingrum, W., Naito, Y., Galli, S., Bae, J., Sekine, K., Hamada, K. . . . Ichikawa, T. (2016). Bone ingrowth of various porous titanium scaffolds produced by a moldless and space holder technique: an in vivo study in rabbits. *Biomedical Materials*, 11(1), 015012-015012.
61. Pranskunas, M., Poskevicius, L., Juodzbalys, G., Kubilius, R. & Jimbo, R. (2016). Influence of Peri-Implant Soft Tissue Condition and Plaque Accumulation on Peri-Implantitis: a Systematic Review. *Journal of Oral & Maxillofacial Research*, 7(3), e2-e2.
62. Quoc Dat Pham, , Björklund, S., Engblom, J., Topgaard, D. & Sparr, E. (2016). Chemical penetration enhancers in stratum corneum - Relation between molecular effects and barrier function. *Journal of Controlled Release*, 232, 175-187.
63. Raphel, J., Karlsson, J., Galli, S., Wennerberg, A., Lindsay, C., Haugh, M. G. . . . Heilshorn, S. C. (2016). Engineered protein coatings to improve the osseointegration of dental and orthopaedic implants. *Biomaterials*, 83, 269-282.

64. Runnsjö, A., Dabkowska, A. P., Sparr, E., Kocherbitov, V., Arnebrant, T. & Engblom, J. (2016). Diffusion through Pig Gastric Mucin: Effect of Relative Humidity. *Plos One*, 11(6), e0157596-e0157596.
65. Sarwar M, Semenas J, Miftakhova R, Simoulis A, Robinson B, Gjörlöf Wingren A, Mongan NP, Heery DM, Johnsson H, Abrahamsson PA, Dizayi N, Luo J, Persson JL. (2016) Targeted suppression of AR-V7 using PIP5K1 α inhibitor overcomes enzalutamide resistance in prostate cancer cells. *Oncotarget*. 27;7(39):63065-63081.
66. Sendyk, D. I., da Silva Rovai, E., Pannuti, C. M., Deboni, M. C., Sendyk, W. R. & Wennerberg, A. (2016). Dental implant loss in older versus younger patients: a systematic review and meta-analysis of prospective studies. *Journal of Oral Rehabilitation*
67. Sendyk, D., Deboni, M., Pannuti, C., Naclerio-Homem, M. & Wennerberg, A. (2016). The influence of statins on osseointegration: a systematic review of animal model studies. *Journal of Oral Rehabilitation*, 43(11), 873-882.
68. Shen, X., Huang, C., Shinde, S., Jagadeesan, K., Ekstrom, S., Fritz, E. . . . Sellergren, B. (2016). Catalytic Formation of Disulfide Bonds in Peptides by Molecularly Imprinted Microgels at Oil/Water Interfaces. *Acs Applied Materials & Interfaces*, 8(44), 30484-30491.
69. Shen, X., Huang, C., Shinde, S., Switnicka-Plak, M., Cormack, P. & Sellergren, B. (2016). Reflux precipitation polymerization: a new synthetic insight in molecular imprinting at high temperature. *Rsc Advances*, 6(85), 81491-81499.
70. Shleev, S., Andoralov, V., Pankratov, D., Falk, M., Aleksejeva, O. & Blum, Z. (2016). Oxygen Electroreduction versus Bioelectroreduction: Direct Electron Transfer Approach. *Electroanalysis*, 28(10), 2270-2287.
71. Stacchi, C., Andolsek, F., Astramskaite, I., Berton, F., Di Lenarda, R., Fernandes, M. H. . . . Raustia, A. (2016). The 1st Baltic Osseointegration Academy and Lithuanian University of Health Sciences Consensus Conference 2016. Summary and Consensus Statements: Group I - Peri-Implantitis Aetiology, Risk Factors and Pathogenesis. *Journal of Oral & Maxillofacial Research*, 7(3), e7-e7.
72. Stanezai, S., Sahlén, E., El-Schich, Z., Fridberg, M., Nordin Fredrikson, G., Anagnostaki, L. . . . Gjörlöf Wingren, A. (2016). Higher intensity of low molecular weight protein tyrosine phosphatase/ ACP-1 in survivors of patients diagnosed with diffuse large B cell lymphoma (DLBCL) compared to non-survivors. *Austin Biology*;2, 1, 1009.
73. Stocchero, M., Toia, M., Cecchinato, D., Becktor, J. P., Coelho, P. G. & Jimbo, R. (2016). Biomechanical, Biologic, and Clinical Outcomes of Undersized Implant Surgical Preparation: A Systematic Review. *The International Journal of Oral & Maxillofacial Implants*, 31(6), 1247-1263.
74. Svensson, A. & Eriksson, H. (2016). Tracing aluminium adjuvants in viable cells. *Atlas of Science*; February 29, 1.
75. Takeshita, K., Toia, M., Jinno, Y., Sumi, T., Takahashi, T., Halldin, A. . . . Jimbo, R. (2016). Implant Vertical Fractures Provoked by Laboratory Procedures: A Finite Element Analysis Inspired from Clinical Cases. *Implant Dentistry*, 25(3), 361-366.
76. Trindade, R., Albrektsson, T., Tengvall, P. & Wennerberg, A. (2016). Foreign Body Reaction to Biomaterials: On Mechanisms for Buildup and Breakdown of Osseointegration. *Clinical Implant Dentistry and Related Research*, 18(1), 192-203.
77. Wang, J., Qiu, H., Shen, H., Pan, J., Dai, X., Yan, Y. . . . Sellergren, B. (2016). Molecularly imprinted fluorescent hollow nanoparticles as sensors for rapid and efficient detection of lambda-cyhalothrin in environmental water. *Biosensors & Bioelectronics*, 85, 387-394.
78. Wang, Z., Steuwer, A., Liu, N., Maimaitiyili, T., Avdeev, M., Blomqvist, J. . . . Daniels, J. E. (2016). Observations of temperature stability of gamma-zirconium hydride by high-resolution neutron powder diffraction. *Journal of Alloys and Compounds*, 661, 55-61.
79. Wojtasz, J., Carlstedt, J., Fyhr, P. & Kocherbitov, V. (2016). Hydration and swelling of amorphous cross-linked starch microspheres. *Carbohydrate Polymers*, 135, 225-233.

80. Yang, D., Pan, L., Peng, P., Dang, X., Li, C., Li, T. . . . Pan, G. (2016). Interaction between SWP9 and PTPs of the microsporidian *Nosema bombycis* and SWP9 as a scaffolding protein contributes to the polar tube tethering to spore wall. *Infection and Immunity*
81. Yuan, Z., Pan, Y., Cheng, R., Sheng, L., Wu, W., Pan, G. . . . Cui, W. (2016). Doxorubicin-loaded mesoporous silica nanoparticle composite nanofibers for long-term adjustments of tumor apoptosis. *Nanotechnology*, 27(24), 245101-245101.
82. Znamenskaya, Y., Bjorklund, S., Kocherbitov, V. & Alfredsson, V. (2016). Effect of hydration and dehydration on the properties of SBA-15 layer studied by humidity scanning QCM-D. *Microporous and Mesoporous Materials*, 230, 58-65.