

Wang X, Molino BZ, Pitkänen S, Ojansivu M, Xu C, Hannula M et al. **3D Scaffolds of Polycaprolactone/Copper-Doped Bioactive Glass: Architecture Engineering with Additive Manufacturing and Cellular Assessments in a Coculture of Bone Marrow Stem Cells and Endothelial Cells.** ACS Biomaterials Science and Engineering. 2019 heinä 18;5(9):4496-4510. <https://doi.org/10.1021/acsbiomaterials.9b00105>

Zhang D, Pekkanen-Mattila M, Shahsavani M, Falk A, Teixeira AI, Herland A. **A 3D Alzheimer's disease culture model and the induction of P21-activated kinase mediated sensing in iPSC derived neurons.** Biomaterials. 2014 helmi;35(5):1420-1428. <https://doi.org/10.1016/j.biomaterials.2013.11.028>

Hyysalo A, Ristola M, Joki T, Honkanen M, Vippola M, Narkilahti S. **Aligned Poly(ϵ -caprolactone) Nanofibers Guide the Orientation and Migration of Human Pluripotent Stem Cell-Derived Neurons, Astrocytes, and Oligodendrocyte Precursor Cells In Vitro.** MACROMOLECULAR BIOSCIENCE. 2017;17(7). 1600517. <https://doi.org/10.1002/mabi.201600517>

Jackson T, Shenkin A, Moore J, Bunce A, van Emmerik T, Kane B et al. **An architectural understanding of natural sway frequencies in trees.** Journal of the Royal Society. Interface. 2019 kesä 28;16(155). <https://doi.org/10.1098/rsif.2019.0116>

Fedele C, De Gregorio M, Netti PA, Cavalli S, Attanasio C. **Azopolymer photopatterning for directional control of angiogenesis.** Acta Biomaterialia. 2017 marras 1;63:317-325. <https://doi.org/10.1016/j.actbio.2017.09.022>

Ojansivu M, Wang X, Hyväri L, Kellomäki M, Hupa L, Vanhatupa S et al. **Bioactive glass induced osteogenic differentiation of human adipose stem cells is dependent on cell attachment mechanism and mitogen-activated protein kinases.** European Cells and Materials. 2018;35:53-71. <https://doi.org/10.22203/eCM.v035a05>

Ojansivu M, Vanhatupa S, Björkvik L, Häkkinen H, Kellomäki M, Autio R et al. **Bioactive glass ions as strong enhancers of osteogenic differentiation in human adipose stem cells.** Acta Biomaterialia. 2015 heinä 15;21:190-203. <https://doi.org/10.1016/j.actbio.2015.04.017>

Vuornos K, Huhtala H, Kääriäinen M, Kuismanen K, Hupa L, Kellomäki M et al. **Bioactive glass ions for in vitro osteogenesis and microvascularization in gellan gum-collagen hydrogels.** Journal of Biomedical Materials Research - Part B Applied Biomaterials. 2019 elo 31. <https://doi.org/10.1002/jbm.b.34482>

Koivisto JT, Joki T, Parraga JE, Paakkönen R, Ylä-Outinen L, Salonen L et al. **Bioamine-crosslinked gellan gum hydrogel for neural tissue engineering.** Biomedical Materials. 2017 maaliskuu 24;12(2). 025014. <https://doi.org/10.1088/1748-605X/aa62b0>

Sorkio AE, Vuorimaa-Laukkanen EP, Hakola HM, Liang H, Ujula TA, Valle-Delgado JJ et al. **Biomimetic collagen I and IV double layer Langmuir-Schaefer films as microenvironment for human pluripotent stem cell derived retinal pigment epithelial cells.** Biomaterials. 2015 touko 1;51:257-269. <https://doi.org/10.1016/j.biomaterials.2015.02.005>

Halonen HT, Ihalainen TO, Hyväri L, Miettinen S, Hyttinen JAK. **Cell adhesion and culture medium dependent changes in the high frequency mechanical vibration induced proliferation, osteogenesis, and intracellular organization of human adipose stem cells.** Journal of the Mechanical Behavior of Biomedical Materials. 2020 tammi 1;101. 103419. <https://doi.org/10.1016/j.jmbbm.2019.103419>

Pitkänen S, Paakinaho K, Pihlman H, Ahola N, Hannula M, Asikainen S et al. **Characterisation and in vitro and in vivo evaluation of supercritical-CO₂-foamed β -TCP/PLCL composites for bone applications.** European cells & materials. 2019 elo 5;38:35-50. <https://doi.org/10.22203/eCM.v038a04>

Rebelo Calejo T, Vuorenperä H, Vuorimaa-Laukkanen E, Kallio P, Aalto-Setälä K, Miettinen S et al. **Co-culture of human induced pluripotent stem cell-derived retinal pigment epithelial cells and endothelial cells on double collagen-coated honeycomb films.** Acta Biomaterialia. 2020;101:327-343. <https://doi.org/10.1016/j.actbio.2019.11.002>

Vignion-Dewalle AS, Betrouni N, Tylcz JB, Vermandel M, Mortier L, Mordon S. **Comparison of three light doses in the photodynamic treatment of actinic keratosis using mathematical modeling.** JOURNAL OF BIOMEDICAL OPTICS. 2015 touko 1;20(5). 058001. <https://doi.org/10.1117/1.JBO.20.5.058001>

Bansod ND, Kapgate BP, Das C, Das A, Basu D, Debnath SC. **Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method.** JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 2016;80(2):548–559. <https://doi.org/10.1007/s10971-016-4114-0>

Praveenkumar R, Johncy K, MubarakAli D, Vijayan D, Thajuddin N, Gunasekaran M. **Demonstration of increased lipid accumulation potential of stigeoclonium sp., Kütz. BUM11007 under nitrogen starved regime: A new source of lipids for biodiesel production.** Journal of Biobased Materials and Bioenergy. 2012 huhti;6(2):209-213. <https://doi.org/10.1166/jbmb.2012.1200>

Cuyon L, Lesage JC, Betrouni N, Mordon S. **Development of a new illumination procedure for photodynamic therapy of the abdominal cavity.** JOURNAL OF BIOMEDICAL OPTICS. 2012 maaliskuu;17(3). 038001. <https://doi.org/10.1117/1.JBO.17.3.038001>

Turunen S, Käpylä E, Lähteenmäki M, Ylä-Outinen L, Narkilahti S, Kellomäki M. **Direct laser writing of microstructures for the growth guidance of human pluripotent stem cell derived neuronal cells.** Optics and Lasers in Engineering. 2014;55:197-204. <https://doi.org/10.1016/j.optlaseng.2013.11.003>

Ribeiro C, Pärssinen J, Sencadas V, Correia V, Miettinen S, Hytönen VP et al. **Dynamic piezoelectric stimulation enhances osteogenic differentiation of human adipose stem cells.** Journal of Biomedical Materials Research. Part A. 2015 kesä 1;103(6):2172-2175. <https://doi.org/10.1002/jbm.a.35368>

Sharma R, Bhalariao S, Gupta D. **Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells.** Organic Electronics: physics, materials, applications. 2016 kesä 1;33:274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>

Faqhiri H, Hannula M, Kellomäki M, Calejo MT, Massera J. **Effect of melt-derived bioactive glass particles on the properties of chitosan scaffolds.** JOURNAL OF FUNCTIONAL BIOMATERIALS. 2019 syys 1;10(3). 38. <https://doi.org/10.3390/jfb10030038>

Kapgate BP, Das C, Das A, Basu D, Reuter U, Heinrich G. **Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends.** JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 2012 syys;63(3):501-509. <https://doi.org/10.1007/s10971-012-2812-9>

Waselau M, Patrikoski M, Juntunen M, Kujala K, Kääriäinen M, Kuokkanen H et al. **Effects of bioactive glass S53P4 or beta-tricalcium phosphate and bone morphogenetic protein-2 and bone morphogenetic protein-7 on osteogenic differentiation of human adipose stem cells.** Journal of Tissue Engineering. 2012;3(1):1-14. <https://doi.org/10.1177/2041731412467789>

Ahtiainen K, Sippola L, Nurminen M, Mannerström B, Haimi S, Suuronen R et al. **Effects of chitosan and bioactive glass modifications of knitted and rolled polylactide-based 96/4L/D scaffolds on chondrogenic differentiation of adipose stem cells.** Journal of Tissue Engineering and Regenerative Medicine. 2015 tammi 1;9(1):55-65. <https://doi.org/10.1002/term.1614>

Parssinen J, Hammarén H, Rahikainen R, Sencadas V, Ribeiro C, Vanhatupa S et al. **Enhancement of adhesion and promotion of osteogenic differentiation of human adipose stem cells by poled electroactive poly(vinylidene fluoride).** Journal of Biomedical Materials Research. Part A. 2015 maaliskuu 1;103(3):919-928. <https://doi.org/10.1002/jbm.a.35234>

Palmroth A, Pitkänen S, Hannula M, Paakinaho K, Hyttinen J, Miettinen S et al. **Evaluation of scaffold microstructure and comparison of cell seeding methods using micro-computed tomography-based tools.** Journal of the Royal Society. Interface. 2020 huhti 1;17(165). 20200102. <https://doi.org/10.1098/rsif.2020.0102>

Kulju S, Riegger L, Koltay P, Mattila K, Hyväluoma J. **Fluid flow simulations meet high-speed video: Computer vision comparison of droplet dynamics.** Journal of Colloid and Interface Science. 2018 heinä 15;522:48-56. <https://doi.org/10.1016/j.jcis.2018.03.053>

Marqa MF, Colin P, Nevoux P, Mordon SR, Betrouni N. **Focal Laser Ablation of Prostate Cancer: Numerical Simulation of Temperature and Damage Distribution.** BioMedical Engineering Online. 2011 kesä 2;10. 45. <https://doi.org/10.1186/1475-925X-10-45>

Salonius E, Muhonen V, Lehto K, Järvinen E, Pyhältö T, Hannula M et al. **Gas-foamed poly(lactide-co-glycolide) and poly(lactide-co-glycolide) with bioactive glass fibres demonstrate insufficient bone repair in lapine osteochondral defects.** Journal of Tissue Engineering and Regenerative Medicine. 2019;13(3):406-415. <https://doi.org/10.1002/term.2801>

Priimagi A, Cavallo G, Forni A, Gorynsztejn-Leben M, Kaivola M, Metrangolo P et al. **Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers.** Advanced Functional Materials. 2012 kesä 20;22(12):2572-2579. <https://doi.org/10.1002/adfm.201200135>

Diban N, Haimi S, Bolhuis-Versteeg L, Teixeira S, Miettinen S, Poot A et al. **Hollow fibers of poly(lactide-co-glycolide) and poly(ϵ -caprolactone) blends for vascular tissue engineering applications.** Acta Biomaterialia. 2013;9(5):6450-6458. <https://doi.org/10.1016/j.actbio.2013.01.005>

Calejo MT, Ilmarinen T, Jongprasitkul H, Skottman H, Kellomäki M. **Honeycomb porous films as permeable scaffold materials for human embryonic stem cell-derived retinal pigment epithelium.** Journal of Biomedical Materials Research. Part A. 2016 heinä 1;104(7):1646-1656. <https://doi.org/10.1002/jbm.a.35690>

Vuornos K, Björninen M, Talvitie E, Paakinaho K, Kellomäki M, Huhtala H et al. **Human Adipose Stem Cells Differentiated on Braided Polylactide Scaffolds is a Potential Approach for Tendon Tissue Engineering.** Tissue Engineering Part A. 2016 maaliskuu 1;22(5-6):513-523. <https://doi.org/10.1089/ten.tea.2015.0276>

Sarkanen JR, Kaila V, Mannerström B, Rätty S, Kuokkanen H, Miettinen S et al. **Human adipose tissue extract induces angiogenesis and adipogenesis in vitro.** Tissue Engineering Part A. 2012 tammi 1;18(1-2):17-25. <https://doi.org/10.1089/ten.tea.2010.0712>

Tomaskovic-Crook E, Zhang P, Ahtiainen A, Kaisvuo H, Lee CY, Beirne S et al. **Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation.** ADVANCED HEALTHCARE MATERIALS. 2019. 1900425. <https://doi.org/10.1002/adhm.201900425>

Zorzi GK, Párraga JE, Seijo B, Sánchez A. **Hybrid nanoparticle design based on cationized gelatin and the polyanions dextran sulfate and chondroitin sulfate for ocular gene therapy.** MACROMOLECULAR BIOSCIENCE. 2011 heinä 7;11(7):905-913. <https://doi.org/10.1002/mabi.201100005>

Will OM, Purcz N, Chalaris A, Heneweer C, Boretius S, Purcz L et al. **Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma.** International Journal of Nanomedicine. 2016 loka 12;11:5311-5321. <https://doi.org/10.2147/IJN.S109199>

Moilanen C, Björkqvist T, Ovaska M, Koivisto J, Miksic A, Engberg BA et al. **Influence of strain rate, temperature and fatigue on the radial compression behaviour of Norway spruce.** Holzforschung. 2017 kesä 27;71(6):505-514. <https://doi.org/10.1515/hf-2016-0144>

Mishra A, Ojansivu M, Autio R, Vanhatupa S, Miettinen S, Massera J. **In-vitro dissolution characteristics and human adipose stem cell response to novel borophosphate glasses.** Journal of Biomedical Materials Research - Part A. 2019. <https://doi.org/10.1002/jbm.a.36722>

Böttrich M, Tanskanen JMA, Hyttinen JAK. **Lead field theory provides a powerful tool for designing microelectrode array impedance measurements for biological cell detection and observation.** BioMedical Engineering Online. 2017 kesä 26;16(1). 85. <https://doi.org/10.1186/s12938-017-0372-5>

Paci M, Sartiani L, Del Lungo M, Jaconi M, Mugelli A, Cerbai E et al. **Mathematical modelling of the action potential of human embryonic stem cell derived cardiomyocytes**. *BioMedical Engineering Online*. 2012 elo 28;11. 61. <https://doi.org/10.1186/1475-925X-11-61>

Isoniemi T, Tuukkanen S, Cameron DC, Simonen J, Toppari JJ. **Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene**. *Organic Electronics*. 2015 heinä 9;25:317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>

Kanerva M, Besharat Z, Pärnänen T, Jokinen J, Honkanen M, Sarlin E et al. **Miniature CoCr laser welds under cyclic shear: Fatigue evolution and crack growth**. *Journal of the Mechanical Behavior of Biomedical Materials*. 2019 marras 1;99:93-103. <https://doi.org/10.1016/j.jmbbm.2019.07.004>

Potapov I, Zhurov B, Volkov E. **Multi-stable dynamics of the non-adiabatic repressilator**. *Journal of the Royal Society. Interface*. 2015 maalis 6;12(104). 20141315. <https://doi.org/10.1098/rsif.2014.1315>

Åkerblom M, Raunonen P, Casella E, Disney MI, Danson FM, Gaulton R et al. **Non-intersecting leaf insertion algorithm for tree structure models**. *Interface Focus*. 2018 huhti 6;8(2). 20170045. <https://doi.org/10.1098/rsfs.2017.0045>

Pihlman H, Keränen P, Paakinaho K, Linden J, Hannula M, Manninen IK et al. **Novel osteoconductive β -tricalcium phosphate/poly(L-lactide-co- ϵ -caprolactone) scaffold for bone regeneration: a study in a rabbit calvarial defect**. *Journal of Materials Science: Materials in Medicine*. 2018 loka 1;29(10). 156. <https://doi.org/10.1007/s10856-018-6159-9>

Haapanen J, Aromaa M, Teisala H, Juuti P, Tuominen M, Sillanpää M et al. **On the limit of superhydrophobicity: Defining the minimum amount of TiO₂ nanoparticle coating**. *Materials Research Express*. 2019;6(3). 035004. <https://doi.org/10.1088/2053-1591/aaf2ee>

Daculsi G, Goyenvalle E, Cagnet R, Aguado E, Suokas EO. **Osteoconductive properties of poly(96L/4D-lactide)/beta-tricalcium phosphate in long term animal model**. *Biomaterials*. 2011 huhti;32(12):3166-3177. <https://doi.org/10.1016/j.biomaterials.2011.01.033>

Tirkkonen L, Haimi S, Huttunen S, Wolff J, Pirhonen E, Sándor GK et al. **Osteogenic medium is superior to growth factors in differentiation of human adipose stem cells towards boneforming cells in 3D culture**. *European Cells and Materials*. 2012;25:144-158.

Kulkova J, Moritz N, Suokas EO, Strandberg N, Leino KA, Laitio TT et al. **Osteointegration of PLGA implants with nanostructured or micro-sized β -TCP particles in a minipig model**. *Journal of the Mechanical Behavior of Biomedical Materials*. 2014 joulu 1;40:190-200. <https://doi.org/10.1016/j.jmbbm.2014.08.028>

Le Xuan L, Zhou C, Slablab A, Chauvat D, Tard C, Perruchas S et al. **Photostable second-harmonic generation from a single KTiOPO₄ nanocrystal for nonlinear microscopy**. *Small*. 2008 syys;4(9):1332-1336. <https://doi.org/10.1002/smll.200701093>

Zhao MD, Björninen M, Cao L, Wang HR, Pelto J, Li XQ et al. **Polypyrrole coating on poly-(lactide/glycolide)- β -tricalcium phosphate screws enhances new bone formation in rabbits**. *Biomedical Materials*. 2015 marras 27;10(6). 065016. <https://doi.org/10.1088/1748-6041/10/6/065016>

Kuuliala L, Pippuri T, Hultman J, Auvinen S-M, Kolppo K, Nieminen T et al. **Preparation and antimicrobial characterization of silver-containing packaging materials for meat**. *Food Packaging and Shelf Life*. 2015 joulu 1;6:53-60. 67. <https://doi.org/10.1016/j.fpsl.2015.09.004>

Li Z, Le T, Wu Z, Yao Y, Li L, Tentzeris M et al. **Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas**. *Advanced Functional Materials*. 2015 tammi 21;25(3):464-470. <https://doi.org/10.1002/adfm.201403275>

Lenk K, Priwitzer B, Ylä-Outinen L, Tietz LHB, Narkilahti S, Hyttinen JAK. **Simulation of developing human neuronal cell networks**. BioMedical Engineering Online. 2016 elo 30;15(1). 105. <https://doi.org/10.1186/s12938-016-0226-6>

Borah D, Rasappa S, Salaun M, Zellsman M, Lorret O, Liontos G et al. **Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned poss substrates fabricated by nanoimprint lithography**. Advanced Functional Materials. 2015 kesä 1;25(22):3425-3432. <https://doi.org/10.1002/adfm.201500100>

Foroutan F, Walters NJ, Owens GJ, Mordan NJ, Kim HW, de Leeuw NH et al. **Sol-gel synthesis of quaternary (P2O5)55-(CaO)25-(Na2O)(20-x)-(TiO2) x bioresorbable glasses for bone tissue engineering applications (x = 0, 5, 10, or 15)**. Biomedical materials (Bristol, England). 2015 elo 1;10(4):45025. <https://doi.org/10.1088/1748-6041/10/4/045025>

Reyes G, Borghei M, King AWT, Lahti J, Rojas OJ. **Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids**. Biomacromolecules. 2019 tammi 14;20(1):502-514. <https://doi.org/10.1021/acs.biomac.8b01554>

Stumpel JE, Gil ER, Spoelstra AB, Bastiaansen CWM, Broer DJ, Schenning APHJ. **Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels**. Advanced Functional Materials. 2015;25(22):3314-3320. <https://doi.org/10.1002/adfm.201500745>

Al Qaysi M, Walters NJ, Foroutan F, Owens GJ, Kim HW, Shah R et al. **Strontium- and calcium-containing, titanium-stabilised phosphate-based glasses with prolonged degradation for orthopaedic tissue engineering**. Journal of Biomaterials Applications. 2015 syys 24;30(3):300-310. <https://doi.org/10.1177/0885328215588898>

Sorkio A, Hongisto H, Kaarniranta K, Uusitalo H, Juuti-Uusitalo K, Skottman H. **Structure and barrier properties of human embryonic stem cell-derived retinal pigment epithelial cells are affected by extracellular matrix protein coating**. Tissue Engineering Part A. 2014 helmi 1;20(3-4):622-634. <https://doi.org/10.1089/ten.tea.2013.0049>

Fliervoet LAL, Lisitsyna ES, Durandin NA, Kotsis I, Maas-Bakker RFM, Yliperttula M et al. **Structure and Dynamics of Thermosensitive pDNA Polyplexes Studied by Time-Resolved Fluorescence Spectroscopy**. Biomacromolecules. 2019. <https://doi.org/10.1021/acs.biomac.9b00896>

Sorkio A, Porter PJ, Juuti-Uusitalo K, Meenan BJ, Skottman H, Burke GA. **Surface Modified Biodegradable Electrospun Membranes as a Carrier for Human Embryonic Stem Cell-Derived Retinal Pigment Epithelial Cells**. Tissue Engineering Part A. 2015 syys 1;21(17-18):2301-2314. <https://doi.org/10.1089/ten.tea.2014.0640>

Kanninen L, Jokinen N, Lahtonen K, Jussila P, Ali-Löytty H, Hirsimäki M et al. **Surface science analysis and surface modification methods for biomaterials research**. European Cells and Materials. 2010 tammi 1;20(SUPPL. 3):133.

Virjula S, Zhao F, Leivo J, Vanhatupa S, Kreutzer J, Vaughan TJ et al. **The effect of equiaxial stretching on the osteogenic differentiation and mechanical properties of human adipose stem cells**. Journal of the Mechanical Behavior of Biomedical Materials. 2017 elo 1;72:38-48. <https://doi.org/10.1016/j.jmbbm.2017.04.016>

Lindgren M, Wallin M, Kakkonen M, Saarela O, Vuorinen J. **The influence of high-temperature sulfuric acid solution ageing on the properties of laminated vinyl-ester joints**. International Journal of Adhesion and Adhesives. 2016 heinä 1;68:298-304. <https://doi.org/10.1016/j.ijadhadh.2016.04.011>

Massera J, Kokkari A, Närhi T, Hupa L. **The influence of SrO and CaO in silicate and phosphate bioactive glasses on human gingival fibroblasts**. Journal of Materials Science: Materials in Medicine. 2015 kesä 25;26(6). 196. <https://doi.org/10.1007/s10856-015-5528-x>

Karvinen J, Koivisto JT, Jönkkäri I, Kellomäki M. **The production of injectable hydrazone crosslinked gellan gum-hyaluronan-hydrogels with tunable mechanical and physical properties**. Journal of the Mechanical Behavior of Biomedical Materials. 2017 heinä 1;71:383-391. <https://doi.org/10.1016/j.jmbbm.2017.04.006>

Lolicato F, Joly L, Martinez-Seara H, Fragneto G, Scoppola E, Baldelli Bombelli F et al. **The Role of Temperature and Lipid Charge on Intake/Uptake of Cationic Gold Nanoparticles into Lipid Bilayers.** *Small*. 2019 kesä 7;15(23). 1805046. <https://doi.org/10.1002/smll.201805046>

Borah D, Rasappa S, Sentharamaikannan R, Shaw MT, Holmes JD, Morris MA. **The sensitivity of random polymer brush-lamellar polystyrene-b-polymethylmethacrylate block copolymer systems to process conditions.** *Journal of Colloid and Interface Science*. 2013 maaliskuu 1;393(1):192-202. <https://doi.org/10.1016/j.jcis.2012.10.070>

Ylä-Outinen L, Joki T, Varjola M, Skottman H, Narkilahti S. **Three-dimensional growth matrix for human embryonic stem cell-derived neuronal cells.** *Journal of Tissue Engineering and Regenerative Medicine*. 2014;8(3):186-194. <https://doi.org/10.1002/term.1512>

Häkkinen A, Oliveira SMD, Neeli-Venkata R, Ribeiro AS. **Transcription closed and open complex formation coordinate expression of genes with a shared promoter region.** *Journal of the Royal Society Interface*. 2019 joulukuu 1;16(161). 20190507. <https://doi.org/10.1098/rsif.2019.0507>

Kaasalainen S, Åkerblom M, Nevalainen O, Hakala T, Kaasalainen M. **Uncertainty in multispectral lidar signals caused by incidence angle effects.** *Interface Focus*. 2018 huhtikuu 6;8(2). 20170033. <https://doi.org/10.1098/rsfs.2017.0033>

Hiltunen M, Peltto J, Ellä V, Kellomäki M. **Uniform and electrically conductive biopolymer-doped polypyrrole coating for fibrous PLA.** *Journal of Biomedical Materials Research. Part B: Applied Biomaterials*. 2016;104(8):1721-1729. <https://doi.org/10.1002/jbm.b.33514>

Disney MI, Boni Vicari M, Burt A, Calders K, Lewis SL, Raunonen P et al. **Weighing trees with lasers: Advances, challenges and opportunities.** *Interface Focus*. 2018 huhtikuu 6;8(2). 20170048. <https://doi.org/10.1098/rsfs.2017.0048>

Heydari G, Sedighi Moghaddam M, Tuominen M, Fielden M, Haapanen J, Mäkelä JM et al. **Wetting hysteresis induced by temperature changes: Supercooled water on hydrophobic surfaces.** *Journal of Colloid and Interface Science*. 2016 huhtikuu 15;468:21-33. <https://doi.org/10.1016/j.jcis.2016.01.040>

Abu Khamidakh AE, Rodriguez-Martinez A, Kaarniranta K, Kallioniemi A, Skottman H, Hyttinen J et al. **Wound healing of human embryonic stem cell-derived retinal pigment epithelial cells is affected by maturation stage.** *BioMedical Engineering Online*. 2018 heinäkuu 31;17(1). 102. <https://doi.org/10.1186/s12938-018-0535-z>

Aydogan DB, Hannula M, Rajala A, Pälli A, Haimi S, Kellomäki M et al. **Analysis of biomaterial scaffold fiber thickness for assessing cell attachment.** julkaisussa 24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011. 2011

Ukkonen L, Sydänheimo L, Ma S, Björninen T. **Backscattering-based wireless communication and power transfer to small biomedical implants.** julkaisussa Gray BL, Becker H, toimittajat, Microfluidics, BioMEMS, and Medical Microsystems XVIII. SPIE. 2020. 112350A. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE). <https://doi.org/10.1117/12.2552183>

Ahola N, Veiranto M, Männistö N, Kellomäki M. **Composites of poly(L-lactide-co-caprolactone) and tricalcium phosphate containing antibiotics; Degradation and drug release.** julkaisussa 24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011. 2011

Paakinaho K, Heino H, Väisänen J, Törmälä P, Kellomäki M. **Effect of lactide monomer on the hydrolytic degradation and performance of melt processed poly(lactide-co-glycolide) 85L/15G.** julkaisussa 24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011. 2011

Cetina-Diaz SM, Vargas-Coronado RF, Cervantes-Uc JM, Cauch-Rodríguez JV, Ahola N, Paakinaho K et al. **HA composites of segmented polyurethanes prepared with glutamine or ascorbic acid as chain extenders for bone tissue regeneration.** julkaisussa 24th European Conference on Biomaterials - Annual Conference of the European Society for

Biomaterials, ESB 2011. 2011

Lahti J, Lavonen J, Lahtinen K, Johansson P, Seppänen T, Cameron DC. **Improved properties for packaging materials by nanoscale surface modification and ALD barrier coating.** julkaisussa TAPPI International Conference on Nanotechnology for Renewable Materials 2016. Vuosikerta 2. TAPPI Press. 2016. s. 684-706

Leroy HA, Vermandel M, Tétard MC, Lejeune JP, Mordon S, Reyns N. **Interstitial photodynamic therapy and glioblastoma: Light fractionation study on a preclinical model: Preliminary results.** julkaisussa Optical Techniques in Neurosurgery, Neurophotonics, and Optogenetics II. Vuosikerta 9305. SPIE. 2015. 93050D <https://doi.org/10.1117/12.2079347>

Wirdatmadja S, Johari P, Balasubramaniam S, Bae Y, Stachowiak MK, Jornet JM. **Light propagation analysis in nervous tissue for wireless optogenetic nanonetworks.** julkaisussa Optogenetics and Optical Manipulation 2018. SPIE. 2018. 104820R <https://doi.org/10.1117/12.2288786>

Vimieiro RB, Borges LR, Caron RF, Barufaldi B, Bakic PR, Maidment ADA et al. **Noise measurements from reconstructed digital breast tomosynthesis.** julkaisussa Schmidt TG, Chen G-H, Bosmans H, toimittajat, Medical Imaging 2019: Physics of Medical Imaging. SPIE, IEEE. 2019. 109480C. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE). <https://doi.org/10.1117/12.2512977>

Käpylä E, Aydogan DB, Turunen S, Hyttinen J, Kellomäki M. **Picosecond laser-induced polymerization of highly porous microscaffolds.** julkaisussa 24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011. 2011

Borges LR, Bakic PR, Foi A, Maidment ADA, Vieira MAC. **Pipeline for effective denoising of digital mammography and digital breast tomosynthesis.** julkaisussa Medical Imaging 2017: Physics of Medical Imaging. SPIE. 2017. 1013206. (Progress in biomedical optics and imaging). <https://doi.org/10.1117/12.2255058>

Lahtinen K, Maydannik P, Kääriäinen T, Seppänen T, Cameron DC, Johansson P et al. **Roll-to-roll atomic layer deposition for flexible substrates.** julkaisussa TAPPI International Conference on Nanotechnology 2013. TAPPI Press. 2013. s. 726-739

Stepien M, Chinga-Carrasco G, Saarinen JJ, Teisala H, Tuominen M, Aromaa M et al. **Wear resistance of nanoparticle coatings on paperboard.** julkaisussa TAPPI International Conference on Nanotechnology 2013. TAPPI Press. 2013. s. 821-829

Kroon M, Talvitie E, Miettinen S, Kellomäki M. **A COMPARATIVE IN VITRO STUDY OF CELL GROWTH ON TEXTILE SCAFFOLDS FOR TISSUE ENGINEERING APPLICATIONS.** 2018. Julkaisun esittämisaika: ESB2018 - 29th Annual Meeting of European Society for Biomaterials, Maastricht, Alankomaat.

Pammo A, Schouten M, Virtanen J, Tuukkanen S. **Biomaterials for Electronics.** 2016.

Kroon M, Talvitie E, Miettinen S, Kellomäki M. **Cell response to round and star-shaped polylactide fibers.** 2018. Julkaisun esittämisaika: BioMediTech Research Day 2018, Tampere, Suomi.

Virtanen J, Tuukkanen S. **Multi-material bio-printing facilities.** 2017. Julkaisun esittämisaika: BMT and MED Research Day 2017, Tampere, Suomi.

Veber A, Lu Z, Vermillac M, Pigeonneau F, Blanc W, Petit L. **Nano-structured optical fibers made of glass-ceramics, and phase separated and metallic particle-containing glasses.** Fibers. 2019;7(12). <https://doi.org/10.3390/fib7120105>

Nymark P, Bakker M, Dekkers S, Franken R, Fransman W, García-Bilbao A et al. **Toward Rigorous Materials Production: New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices.** Small. 2020;16(6). 1904749. <https://doi.org/10.1002/sml.201904749>

