

Aho V, Myllys M, Ruokolainen V, Hakanen S, Mäntylä E, Virtanen J, Hukkanen V, Kühn T, Timonen J, Mattila K, Larabell CA, Vihinen-Ranta M. 2017. Chromatin organization regulates viral egress dynamics. *Scientific Reports*. 7(1). <https://doi.org/10.1038/s41598-017-03630-y>

Airaksinen M, Räsänen O, Ilén E, Häyrynen T, Kivi A, Marchi V, Gallen A, Blom S, Varhe A, Kaartinen N, Haataja L, Vanhatalo S. 2020. Automatic Posture and Movement Tracking of Infants with Wearable Movement Sensors. *Scientific Reports*. 10(1). <https://doi.org/10.1038/s41598-019-56862-5>

Akamatsu N, Tashiro W, Saito K, Mamiya JI, Kinoshita M, Ikeda T, Takeya J, Fujikawa S, Priimagi A, Shishido A. 2014. Facile strain analysis of largely bending films by a surface-labelled grating method. *Scientific Reports*. 4. <https://doi.org/10.1038/srep05377>

Akola J, Jones RO. 2017. Speeding up crystallization. *Science*. 358(6369):1386. <https://doi.org/10.1126/science.aag0476>

Allahham MHDS, Al-Sa'd MF, Al-Ali A, Mohamed A, Khattab T, Erbad A. 2019. DroneRF dataset: A dataset of drones for RF-based detection, classification and identification. *Data in Brief*. 26. <https://doi.org/10.1016/j.dib.2019.104313>

Astola H, Tabus I. 2016. On the linear programming bound for linear Lee codes. *SpringerPlus*. 5(1):1-13. <https://doi.org/10.1186/s40064-016-1863-8>

Bainschab M, Martikainen S, Keskinen J, Bergmann A, Karjalainen P. 2019. Aerosol gas exchange system (AGES) for nanoparticle sampling at elevated temperatures: Modeling and experimental characterization. *Scientific Reports*. 9(1). <https://doi.org/10.1038/s41598-019-53113-5>

Baltakys K, Kannianen J, Emmert-Streib F. 2018. Multilayer Aggregation with Statistical Validation: Application to Investor Networks. *Scientific Reports*. 8(1). <https://doi.org/10.1038/s41598-018-26575-2>

Bauer M, Rasmussen ES, Lomholt MA, Metzler R. 2015. Real sequence effects on the search dynamics of transcription factors on DNA. *Scientific Reports*. 5. <https://doi.org/10.1038/srep10072>

Caetano dos Santos FL, Michalek IM, Laurila K, Kaukinen K, Hyttinen J, Lindfors K. 2019. Automatic classification of IgA endomysial antibody test for celiac disease: a new method deploying machine learning. *Scientific Reports*. 9(1). <https://doi.org/10.1038/s41598-019-45679-x>

Curtze SC, Kratz M, Steinert M, Vogt S. 2016. Step down Vascular Calcification Analysis using State-of-the-Art Nanoanalysis Techniques. *Scientific Reports*. 6. <https://doi.org/10.1038/srep23285>

Di Vito D, Mosallaei M, Khorramdel B, Kanerva M, Mäntysalo M. 2020. Mechanically driven strategies to improve electromechanical behaviour of printed stretchable electronic systems. *Scientific Reports*. 10(1). <https://doi.org/10.1038/s41598-020-68871-w>

Du J, Harra J, Virkki M, Mäkelä JM, Leng Y, Kauranen M, Kobayashi T. 2016. Surface-Enhanced Impulsive Coherent Vibrational Spectroscopy. *Scientific Reports*. 6. <https://doi.org/10.1038/srep36471>

Emmert-Streib F, De Matos Simoes R, Tripathi S, Glazko GV, Dehmer M. 2012. A Bayesian analysis of the chromosome architecture of human disorders by integrating reductionist data. *Scientific Reports*. 2. <https://doi.org/10.1038/srep00513>

Erasmus EP, Johnson OT, Sigalas I, Massera J. 2017. Effects of Sintering Temperature on Crystallization and Fabrication of Porous Bioactive Glass Scaffolds for Bone Regeneration. *Scientific Reports*. 7(1). <https://doi.org/10.1038/s41598-017-06337-2>

Erasmus EP, Sule R, Johnson OT, Massera J, Sigalas I. 2018. In vitro Evaluation of Porous borosilicate, borophosphate and phosphate Bioactive Glasses Scaffolds fabricated using Foaming Agent for Bone Regeneration. *Scientific Reports*. 8(1). <https://doi.org/10.1038/s41598-018-22032-2>

- Eriksson UK, Fischer G, Friemann R, Enkavi G, Tajkhorshid E, Neutze R. 2013. Subangstrom resolution x-ray structure details aquaporin-water interactions. *Science*. 340(6138):1346-1349. <https://doi.org/10.1126/science.1234306>
- Faggiani R, Baron A, Zang X, Lalouat L, Schulz SA, O'Regan B, Vynck K, Cluzel B, De Fornel F, Krauss TF, Lalanne P. 2016. Lower bound for the spatial extent of localized modes in photonic-crystal waveguides with small random imperfections. *Scientific Reports*. 6. <https://doi.org/10.1038/srep27037>
- Fan YM, Hernesniemi J, Oksala N, Levula M, Raitoharju E, Collings A, Hutri-Kähönen N, Juonala M, Marniemi J, Lyytikäinen LP, Seppälä I, Mennander A, Tarkka M, Kangas AJ, Soininen P, Salenius JP, Klopp N, Illig T, Laitinen T, Ala-Korpela M, Laaksonen R, Viikari J, Kähönen M, Raitakari OT, Lehtimäki T. 2014. Upstream Transcription Factor 1 (USF1) allelic variants regulate lipoprotein metabolism in women and USF1 expression in atherosclerotic plaque. *Scientific Reports*. 4. <https://doi.org/10.1038/srep04650>
- Fang Y, Akbari M, Sydänheimo L, Ukkonen L, Tenzler MM. 2017. Sensitivity enhancement of flexible gas sensors via conversion of inkjet-printed silver electrodes into porous gold counterparts. *Scientific Reports*. 7(1). <https://doi.org/10.1038/s41598-017-09174-5>
- Fedele C, Mäntylä E, Belardi B, Hamkins-Indik T, Cavalli S, Netti PA, Fletcher DA, Nymark S, Priimagi A, Ihalainen TO. 2020. Azobenzene-based sinusoidal surface topography drives focal adhesion confinement and guides collective migration of epithelial cells. *Scientific Reports*. 10(1). <https://doi.org/10.1038/s41598-020-71567-w>
- Frankberg EJ, Kalikka J, Ferré FG, Joly-Pottuz L, Salminen T, Hintikka J, Hokka M, Koneti S, Douillard T, Le Saint B, Kreiml P, Cordill MJ, Epicier T, Stauffer D, Vanazzi M, Roiban L, Akola J, Fonzo FD, Levänen E, Masenelli-Varlot K. 2019. Highly ductile amorphous oxide at room temperature and high strain rate. *Science*. 366(6467):864-869. <https://doi.org/10.1126/science.aav1254>
- Godec A, Metzler R. 2016. First passage time distribution in heterogeneity controlled kinetics: Going beyond the mean first passage time. *Scientific Reports*. 6. <https://doi.org/10.1038/srep20349>
- Guixà-González R, Javanainen M, Gómez-Soler M, Cordobilla B, Domingo JC, Sanz F, Pastor M, Ciruela F, Martínez-Seara H, Selent J. 2016. Membrane omega-3 fatty acids modulate the oligomerisation kinetics of adenosine A<sub>2A</sub> and dopamine D<sub>2</sub> receptors. *Scientific Reports*. 6. <https://doi.org/10.1038/srep19839>
- Gundem G, Van Loo P, Kremeyer B, Alexandrov LB, Tubio JMC, Papaemmanuil E, Brewer DS, Kallio HML, Högnäs G, Annala M, Kivinummi K, Goody V, Latimer C, O'Meara S, Dawson KJ, Isaacs W, Emmert-Buck MR, Nykter M, Foster C, Kote-Jarai Z, Easton D, Whitaker HC, Neal DE, Cooper CS, Eeles RA, Visakorpi T, Campbell PJ, McDermott U, Wedge DC, Bova GS. 2015. The evolutionary history of lethal metastatic prostate cancer. *Nature*. 520(7547):353-357. <https://doi.org/10.1038/nature14347>
- Haider S, Islam B, D'Atri V, Sgobba M, Poojari C, Sun L, Yuen T, Zaidi M, New MI. 2013. Structure-phenotype correlations of human CYP21A2 mutations in congenital adrenal hyperplasia. *Proceedings of the National Academy of Sciences of the United States of America*. 110(7):2605-2610. <https://doi.org/10.1073/pnas.1221133110>
- Honkela A, Peltonen J, Topa H, Charapitsa I, Matarese F, Grote K, Stunnenberg HG, Reid G, Lawrence ND, Rattray M. 2015. Genome-wide modeling of transcription kinetics reveals patterns of RNA production delays. *Proceedings of the National Academy of Sciences of the United States of America*. 112(42):13115-13120. <https://doi.org/10.1073/pnas.1420404112>
- Islam MS, Ivanov S, Robson E, Dooley-Cullinane T, Coffey L, Doolin K, Balasubramaniam S. 2019. Genetic similarity of biological samples to counter bio-hacking of DNA-sequencing functionality. *Scientific Reports*. 9(1). <https://doi.org/10.1038/s41598-019-44995-6>
- Jääskeläinen IP, Pajula J, Tohka J, Lee HJ, Kuo WJ, Lin FH. 2016. Brain hemodynamic activity during viewing and re-viewing of comedy movies explained by experienced humor. *Scientific Reports*. 6. <https://doi.org/10.1038/srep27741>

Jungwirth P. 2011. Physical chemistry: Water's wafer-thin surface. *Nature*. 474(7350):168-169. <https://doi.org/10.1038/474168a>

Juutinen M, Wang C, Zhu J, Haladjian J, Ruokolainen J, Puustinen J, Vehkaoja A. 2020. Parkinson's disease detection from 20-step walking tests using inertial sensors of a smartphone: Machine learning approach based on an observational case-control study. *PLoS ONE*. 15(7). <https://doi.org/10.1371/journal.pone.0236258>

Kalimeri M, Constantoudis V, Papadimitriou C, Karamanos K, Diakonos FK, Papageorgiou H. 2012. Entropy analysis of word-length series of natural language texts: Effects of text language and genre. *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*. 22(9). <https://doi.org/10.1142/S0218127412502239>

Kanerva M, Besharat Z, Pärnänen T, Jokinen J, Honkanen M, Sarlin E, Göthelid M, Schlenzka D. 2019. Automatization and stress analysis data of CoCr laser weld fatigue tests. *Data in Brief*. 26. <https://doi.org/10.1016/j.dib.2019.104374>

Kangas P, Tikkakoski A, Kettunen J, Eräranta A, Huhtala H, Kähönen M, Sipilä K, Mustonen J, Pörsti I. 2019. Changes in hemodynamics associated with metabolic syndrome are more pronounced in women than in men. *Scientific Reports*. 9(1). <https://doi.org/10.1038/s41598-019-54926-0>

Kaszuba K, Grzybek M, Orłowski A, Danne R, Róg T, Simons K, Coskun Ü, Vattulainen I. 2015. N-Glycosylation as determinant of epidermal growth factor receptor conformation in membranes. *Proceedings of the National Academy of Sciences of the United States of America*. 112(14):4334-4339. <https://doi.org/10.1073/pnas.1503262112>

Katko TS. 2017. Väitöstilaisuus yliopiston imagonluojana. *Tiedepolitiikka*. 42(1):63-64.

Keinänen P, Siljander S, Koivula M, Sethi J, Sarlin E, Vuorinen J, Kanerva M. 2018. Optimized dispersion quality of aqueous carbon nanotube colloids as a function of sonochemical yield and surfactant/CNT ratio. *Heliyon*. 4(9). <https://doi.org/10.1016/j.heliyon.2018.e00787>

Kim J, Shah D, Potapov I, Latukka J, Aalto-Setälä K, Räsänen E. 2019. Scaling and correlation properties of RR and QT intervals at the cellular level. *Scientific Reports*. 9(1). <https://doi.org/10.1038/s41598-019-40247-9>

Kiranyaz S, Ince T, Gabbouj M. 2017. Personalized Monitoring and Advance Warning System for Cardiac Arrhythmias. *Scientific Reports*. 7(1). <https://doi.org/10.1038/s41598-017-09544-z>

Koskela O, Montonen T, Belay B, Figueiras E, Pursiainen S, Hyttinen J. 2019. Gaussian Light Model in Brightfield Optical Projection Tomography. *Scientific Reports*. 9(1). <https://doi.org/10.1038/s41598-019-50469-6>

Lapre C, Billet C, Meng F, Ryczkowski P, Sylvestre T, Finot C, Genty G, Dudley JM. 2019. Real-time characterization of spectral instabilities in a mode-locked fibre laser exhibiting soliton-similariton dynamics. *Scientific Reports*. 9(1). <https://doi.org/10.1038/s41598-019-50022-5>

Larjo A, Lähdesmäki H. 2015. Using multi-step proposal distribution for improved MCMC convergence in Bayesian network structure learning. *Eurasip Journal on Bioinformatics and Systems Biology*. 2015(1). <https://doi.org/10.1186/s13637-015-0024-7>

Laudyn UA, Jung PS, Karpierz MA, Assanto G. 2016. Quasi two-dimensional astigmatic solitons in soft chiral metastructures. *Scientific Reports*. 6. <https://doi.org/10.1038/srep22923>

Laudyn UA, Kwaśny M, Sala FA, Karpierz MA, Smyth NF, Assanto G. 2017. Curved optical solitons subject to transverse acceleration in reorientational soft matter. *Scientific Reports*. 7(1). <https://doi.org/10.1038/s41598-017-12242-5>

Lehtipalo K, Yan C, Dada L, Bianchi F, Xiao M, Wagner R, Stolzenburg D, Ahonen LR, Amorim A, Baccarini A, Bauer PS, Baumgartner B, Bergen A, Bernhammer AK, Breitenlechner M, Brilke S, Buchholz A, Mazon SB, Chen D, Chen X, Dias A, Dommen J, Draper DC, Duplissy J, Ehn M, Finkenzeller H, Fischer L, Frege C, Fuchs C, Garmash O, Gordon H, Hakala J, He X, Heikkinen L, Heinritzi M, Helm JC, Hofbauer V, Hoyle CR, Jokinen T, Kangasluoma J, Kerminen VM, Kim C, Kirkby J, Kontkanen J, Kürten A, Lawler MJ, Mai H, Mathot S, Nieminen T, Virtanen A. 2018. Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. *Science Advances*. 4(12). <https://doi.org/10.1126/sciadv.aau5363>

Levin EJ, Cao Y, Enkavi G, Quick M, Pan Y, Tajkhorshid E, Zhou M. 2012. Structure and permeation mechanism of a mammalian urea transporter. *Proceedings of the National Academy of Sciences of the United States of America*. 109(28):11194-11199. <https://doi.org/10.1073/pnas.1207362109>

Li J, Shaikh SA, Enkavi G, Wen PC, Huang Z, Tajkhorshid E. 2013. Transient formation of water-conducting states in membrane transporters. *Proceedings of the National Academy of Sciences of the United States of America*. 110(19):7696-7701. <https://doi.org/10.1073/pnas.1218986110>

Lukovic D, Castro AA, Delgado ABG, Bernal MDL, Pelaez NL, Lloret AD, Espejo RP, Kamenarova K, Sánchez LF, Cuenca N, Cortón M, Fernandez AA, Sorkio A, Skottman H, Ayuso C, Erceg S, Bhattacharya SS. 2015. Human iPSC derived disease model of MERTK-associated retinitis pigmentosa. *Scientific Reports*. 5. <https://doi.org/10.1038/srep12910>

Mäkelä J, Kandavalli V, Ribeiro AS. 2017. Rate-limiting steps in transcription dictate sensitivity to variability in cellular components. *Scientific Reports*. 7(1). <https://doi.org/10.1038/s41598-017-11257-2>

Margvelashvili A, Zollkofer CPE, Lordkipanidze D, Peltomäki T, De León MSP. 2013. Tooth wear and dentoalveolar remodeling are key factors of morphological variation in the Dmanisi mandibles. *Proceedings of the National Academy of Sciences of the United States of America*. 110(43):17278-17283. <https://doi.org/10.1073/pnas.1316052110>

Mathis A, Froehly L, Toenger S, Dias F, Genty G, Dudley JM. 2015. Caustics and rogue waves in an optical sea. *Scientific Reports*. 5. <https://doi.org/10.1038/srep12822>

Mikhailova A, Jylhä A, Rieck J, Nättinen J, Ilmarinen T, Veréb Z, Aapola U, Beuerman R, Petrovski G, Uusitalo H, Skottman H. 2015. Comparative proteomics reveals human pluripotent stem cell-derived limbal epithelial stem cells are similar to native ocular surface epithelial cells. *Scientific Reports*. 5. <https://doi.org/10.1038/srep14684>

Mobarak E, Håversen L, Manna M, Rutberg M, Levin M, Perkins R, Rog T, Vattulainen I, Borén J. 2018. Glucosylceramide modifies the LPS-induced inflammatory response in macrophages and the orientation of the LPS/TLR4 complex in silico. *Scientific Reports*. 8(1). <https://doi.org/10.1038/s41598-018-31926-0>

Molkkari M, Angelotti G, Emig T, Räsänen E. 2020. Dynamical heart beat correlations during running. *Scientific Reports*. 10(1). <https://doi.org/10.1038/s41598-020-70358-7>

Narra N, Abe S, Dimitrov V, Nikander R, Kouhia R, Sievänen H, Hyttinen J. 2018. Ricci-flow based conformal mapping of the proximal femur to identify exercise loading effects. *Scientific Reports*. 8(1). <https://doi.org/10.1038/s41598-018-23248-y>

Noronen T, Firstov S, Dianov E, Okhotnikov OG. 2016. 1700 nm dispersion managed mode-locked bismuth fiber laser. *Scientific Reports*. 6. <https://doi.org/10.1038/srep24876>

Paci M, Nanni L, Severi S. 2013. An ensemble of classifiers based on different texture descriptors for texture classification. *Journal of King Saud University - Science*. 25(3):235-244. <https://doi.org/10.1016/j.jksus.2012.12.001>

Pessi T, Viiri LE, Raitoharju E, Astola N, Seppälä I, Waldenberger M, Lounatmaa K, Davies AH, Lehtimäki T, Karhunen PJ, Monaco C. 2015. Interleukin-6 and microRNA profiles induced by oral bacteria in human atheroma derived and healthy smooth muscle cells. *SpringerPlus*. 4(1). <https://doi.org/10.1186/s40064-015-0993-8>

- Postila PA, Vattulainen I, Róg T. 2016. Selective effect of cell membrane on synaptic neurotransmission. *Scientific Reports*. 6. <https://doi.org/10.1038/srep19345>
- Postila PA, Kaszuba K, Kuleta P, Vattulainen I, Sarewicz M, Osyczka A, Róg T. 2016. Atomistic determinants of co-enzyme Q reduction at the Q<sub>i</sub>-site of the cytochrome bc<sub>1</sub> complex. *Scientific Reports*. 6. <https://doi.org/10.1038/srep33607>
- Potapov I, Latukka J, Kim J, Luukko P, Aalto-Setälä K, Räsänen E. 2018. Information transfer in QT-RR dynamics: Application to QT-correction. *Scientific Reports*. 8(1). <https://doi.org/10.1038/s41598-018-33359-1>
- Prajapat MK, Ribeiro AS. 2018. Added value of autoregulation and multi-step kinetics of transcription initiation. *Royal Society Open Science*. 5(11). <https://doi.org/10.1098/rsos.181170>
- Pulkkinen O, Metzler R. 2015. Variance-corrected Michaelis-Menten equation predicts transient rates of single-enzyme reactions and response times in bacterial gene-regulation. *Scientific Reports*. 5. <https://doi.org/10.1038/srep17820>
- Railanmaa A, Lehtimäki S, Keskinen J, Lupo D. 2019. Non-toxic printed supercapacitors operating in sub-zero conditions. *Scientific Reports*. 9(1). <https://doi.org/10.1038/s41598-019-50570-w>
- Railanmaa A, Soltani A, Lehtimäki S, Pournoori N, Keskinen J, Hokka M, Lupo D. 2020. Skin-conformable printed supercapacitors and their performance in wear. *Scientific Reports*. 10(1). <https://doi.org/10.1038/s41598-020-72244-8>
- Rasappa S, Ghoshal T, Borah D, Senthamaraikannan R, Holmes JD, Morris MA. 2015. A Highly Efficient Sensor Platform Using Simply Manufactured Nanodot Patterned Substrates. *Scientific Reports*. 5. <https://doi.org/10.1038/srep13270>
- Rashed AR, Gudulluoglu B, Yun HW, Habib M, Boyaci IH, Hong SH, Ozbay E, Caglayan H. 2018. Highly-Sensitive Refractive Index Sensing by Near-infrared Metatronic Nanocircuits. *Scientific Reports*. 8(1). <https://doi.org/10.1038/s41598-018-29623-z>
- Reverey JF, Jeon J-H, Bao H, Leippe M, Metzler R, Selhuber-Unkel C. 2015. Superdiffusion dominates intracellular particle motion in the supercrowded cytoplasm of pathogenic *Acanthamoeba castellanii*. *Scientific Reports*. 5. <https://doi.org/10.1038/srep11690>
- Rissanen J, Korobko DA, Zolotovskiy IO, Melkumov M, Khopin VF, Gumenyuk R. 2017. Infiltrated bunch of solitons in Bi-doped frequency-shifted feedback fibre laser operated at 1450 nm. *Scientific Reports*. 7. <https://doi.org/10.1038/srep44194>
- Rönkkö T, Kuuluvainen H, Karjalainen P, Keskinen J, Hillamo R, Niemi JV, Pirjola L, Timonen HJ, Saarikoski S, Saukko E, Järvinen A, Silvennoinen H, Rostedt A, Olin M, Yli-Ojanperä J, Nousiainen P, Kousa A, Dal Maso M. 2017. Traffic is a major source of atmospheric nanocluster aerosol. *Proceedings of the National Academy of Sciences of the United States of America*. 114(29):7549-7554. <https://doi.org/10.1073/pnas.1700830114>
- Ropo M, Blum V, Baldauf C. 2016. Trends for isolated amino acids and dipeptides: Conformation, divalent ion binding, and remarkable similarity of binding to calcium and lead. *Scientific Reports*. 6. <https://doi.org/10.1038/srep35772>
- Ruskamo S, Nieminen T, Kristiansen CK, Vatne GH, Baumann A, Hallin EI, Raasakka A, Joensuu P, Bergmann U, Vattulainen I, Kursula P. 2017. Molecular mechanisms of Charcot-Marie-Tooth neuropathy linked to mutations in human myelin protein P2. *Scientific Reports*. 7(1). <https://doi.org/10.1038/s41598-017-06781-0>
- Salmela L, Lapre C, Dudley JM, Genty G. 2020. Machine learning analysis of rogue solitons in supercontinuum generation. *Scientific Reports*. 10. <https://doi.org/10.1038/s41598-020-66308-y>

Sand J, Ihantola S, Peräjärvi K, Toivonen H, Toivonen J. 2016. Optical detection of radon decay in air. *Scientific Reports*. 6. <https://doi.org/10.1038/srep21532>

Sariola V, Pena-Francesch A, Jung H, Çetinkaya M, Pacheco C, Sitti M, Demirel MC. 2015. Segmented molecular design of self-healing proteinaceous materials. *Scientific Reports*. 5. <https://doi.org/10.1038/srep13482>

Sartoneva R, Kuismanen K, Juntunen M, Karjalainen S, Hannula M, Kyllönen L, Hyttinen J, Huhtala H, Paakinaho K, Miettinen S. 2018. Porous poly-L-lactide-co-1-caprolactone scaffold: A novel biomaterial for vaginal tissue engineering. *Royal Society Open Science*. 5(8). <https://doi.org/10.1098/rsos.180811>

Senju Y, Kalimeri M, Koskela EV, Somerharju P, Zhao H, Vattulainen I, Lappalainen P. 2017. Mechanistic principles underlying regulation of the actin cytoskeleton by phosphoinositides. *Proceedings of the National Academy of Sciences of the United States of America*. 114(43):E8977-E8986. <https://doi.org/10.1073/pnas.1705032114>

Shahsavani H, Aghakhani A, Zeng H, Guo Y, Davidson ZS, Priimägi A, Sitti M. 2020. Bioinspired underwater locomotion of light-driven liquid crystal gels. *Proceedings of the National Academy of Sciences of the United States of America*. 117(10):5125-5133. <https://doi.org/10.1073/pnas.1917952117>

Sharma V, Enkavi G, Vattulainen I, Róg T, Wikström M. 2015. Proton-coupled electron transfer and the role of water molecules in proton pumping by cytochrome c oxidase. *Proceedings of the National Academy of Sciences of the United States of America*. 112(7):2040-2045. <https://doi.org/10.1073/pnas.1409543112>

Sharma V, Belevich G, Gamiz-Hernandez AP, Róg T, Vattulainen I, Verkhovskaya ML, Wikström M, Hummer G, Kaila VRI. 2015. Redox-induced activation of the proton pump in the respiratory complex I. *Proceedings of the National Academy of Sciences of the United States of America*. 112(37):11571-11576. <https://doi.org/10.1073/pnas.1503761112>

Soltani A, Lahti J, Järvelä K, Curtze S, Laurikka J, Hokka M, Kuokkala VT. 2018. An Optical Method for the In-Vivo Characterization of the Biomechanical Response of the Right Ventricle. *Scientific Reports*. 8(1). <https://doi.org/10.1038/s41598-018-25223-z>

Tiulpin A, Thevenot J, Rahtu E, Lehenkari P, Saarakkala S. 2018. Automatic knee osteoarthritis diagnosis from plain radiographs: A deep learning-based approach. *Scientific Reports*. 8(1). <https://doi.org/10.1038/s41598-018-20132-7>

Tiulpin A, Klein S, Bierma-Zeinstra SMA, Thevenot J, Rahtu E, Meurs JV, Oei EHG, Saarakkala S. 2019. Multimodal Machine Learning-based Knee Osteoarthritis Progression Prediction from Plain Radiographs and Clinical Data. *Scientific Reports*. 9(1). <https://doi.org/10.1038/s41598-019-56527-3>

Toenger S, Godin T, Billet C, Dias F, Erkintalo M, Genty G, Dudley JM. 2015. Emergent rogue wave structures and statistics in spontaneous modulation instability. *Scientific Reports*. 5. <https://doi.org/10.1038/srep10380>

Tomberg T, Vainio M, Hieta T, Halonen L. 2018. Sub-parts-per-trillion level sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy. *Scientific Reports*. 8(1). <https://doi.org/10.1038/s41598-018-20087-9>

Tubio JMC, Li Y, Ju YS, Martincorena I, Cooke SL, Tojo M, Gundem G, Pipinikas CP, Zamora J, Raine K, Menzies A, Roman-Garcia P, Fullam A, Gerstung M, Shlien A, Tarpey PS, Papaemmanuil E, Knappskog S, Van Loo P, Ramakrishna M, Davies HR, Marshall J, Wedge DC, Teague JW, Butler AP, Nik-Zainal S, Alexandrov L, Behjati S, Yates LR, Bolli N, Mudie L, Hardy C, Martin S, McLaren S, O'Meara S, Anderson E, Maddison M, Gamble S, Foster C, Warren AY, Whitaker H, Brewer D, Eeles R, Cooper C, Neal D, Lynch AG, Visakorpi T, Isaacs WB, Van't Veer L, Caldas C, Desmedt C, Sotiriou C, Aparicio S, Foekens JA, Eyfjörd JE, Lakhani SR, Thomas G, Myklebost O, Span PN, Børresen-Dale AL, Richardson AL, Van De Vijver M, Vincent-Salomon A, Van Den Eynden GG, Flanagan AM, Futreal PA, Janes SM, Bova GS, Stratton MR, McDermott U, Campbell PJ. 2014. Extensive transduction of nonrepetitive DNA mediated by L1 retrotransposition in cancer genomes. *Science*. 345(6196). <https://doi.org/10.1126/science.1251343>

Turner KM, Sun Y, Ji P, Granberg KJ, Bernard B, Hu L, Cogdell DE, Zhou X, Yli-Harja O, Nykter M, Shmulevich I, Yung WKA, Fuller GN, Zhang W. 2015. Genomically amplified Akt3 activates DNA repair pathway and promotes glioma progression. *Proceedings of the National Academy of Sciences of the United States of America*. 112(11):3421-3426.

<https://doi.org/10.1073/pnas.1414573112>

Tuukkanen S, Välimäki M, Lehtimäki S, Vuorinen T, Lupo D. 2016. Behaviour of one-step spray-coated carbon nanotube supercapacitor in ambient light harvester circuit with printed organic solar cell and electrochromic display. *Scientific Reports*. 6. <https://doi.org/10.1038/srep22967>

Valkonen M, Ruusuvaori P, Kartasalo K, Nykter M, Visakorpi T, Latonen L. 2017. Analysis of spatial heterogeneity in normal epithelium and preneoplastic alterations in mouse prostate tumor models. *Scientific Reports*. 7. <https://doi.org/10.1038/srep44831>

Valtonen O, Ormiskangas J, Kivekäs I, Rantanen V, Dean M, Poe D, Järnstedt J, Lekkala J, Saarenrinne P, Rautiainen M. 2020. Three-Dimensional Printing of the Nasal Cavities for Clinical Experiments. *Scientific Reports*. 10. <https://doi.org/10.1038/s41598-020-57537-2>

Virkki K, Tervola E, Ince M, Torres T, Tkachenko NV. 2018. Comparison of electron injection and recombination on TiO<sub>2</sub> nanoparticles and ZnO nanorods photosensitized by phthalocyanine. *Royal Society Open Science*. 5(7). <https://doi.org/10.1098/rsos.180323>

Virta J, Hannula M, Tamminen I, Lindfors K, Kaukinen K, Popp A, Taavela J, Saavalainen P, Hiltunen P, Hyttinen J, Kurppa K. 2020. X-ray microtomography is a novel method for accurate evaluation of small-bowel mucosal morphology and surface area. *Scientific Reports*. 10(1). <https://doi.org/10.1038/s41598-020-69487-w>

Wang M, Kong W, Marten R, He XC, Chen D, Pfeifer J, Heitto A, Kontkanen J, Dada L, Kürten A, Yli-Juuti T, Manninen HE, Amanatidis S, Amorim A, Baalbaki R, Baccarini A, Bell DM, Bertozzi B, Bräkling S, Brilke S, Murillo LC, Chiu R, Chu B, De Menezes LP, Duplissy J, Finkenzeller H, Carracedo LG, Granzin M, Guida R, Hansel A, Hofbauer V, Krechmer J, Lehtipalo K, Lamkaddam H, Lampimäki M, Lee CP, Makhmutov V, Marie G, Mathot S, Mauldin RL, Mentler B, Müller T, Onnela A, Partoll E, Petäjä T, Philippov M, Pospisilova V, Ranjithkumar A, Rissanen M, Rörup B, Scholz W, Shen J, Simon M, Sipilä M, Steiner G, Stolzenburg D, Tham YJ, Tomé A, Wagner AC, Wang DS, Wang Y, Weber SK, Winkler PM, Wlasits PJ, Wu Y, Xiao M, Ye Q, Zauner-Wieczorek M, Zhou X, Volkamer R, Riipinen I, Dommen J, Curtius J, Baltensperger U, Kulmala M, Worsnop DR, Kirkby J, Seinfeld JH, El-Haddad I, Flagan RC, Donahue NM. 2020. Rapid growth of new atmospheric particles by nitric acid and ammonia condensation. *Nature*. 581(7807):184-189. <https://doi.org/10.1038/s41586-020-2270-4>

Warnau J, Sharma V, Gamiz-Hernandez AP, Luca AD, Haapanen O, Vattulainen I, Wikström M, Hummer G, Kaila VRI. 2018. Redox-coupled quinone dynamics in the respiratory complex I. *Proceedings of the National Academy of Sciences of the United States of America*. 115(36):E8413-E8420. <https://doi.org/10.1073/pnas.1805468115>

Wiklund P, Zhang X, Pekkala S, Autio R, Kong L, Yang Y, Keinänen-Kiukaanniemi S, Alen M, Cheng S. 2016. Insulin resistance is associated with altered amino acid metabolism and adipose tissue dysfunction in normoglycemic women. *Scientific Reports*. 6. <https://doi.org/10.1038/srep24540>

Wilmes S, Hafer M, Vuorio J, Tucker JA, Winkelmann H, Löchte S, Stanly TA, Pulgar Prieto KD, Poojari C, Sharma V, Richter CP, Kurre R, Hubbard SR, Christopher Garcia K, Moraga I, Vattulainen I, Hitchcock IS, Piehler J. 2020. Mechanism of homodimeric cytokine receptor activation and dysregulation by oncogenic mutations. *Science*. 367(6478):643-652. <https://doi.org/10.1126/science.aaw3242>

Yang Z, Dehmer M, Yli-Harja O, Emmert-Streib F. 2020. Combining deep learning with token selection for patient phenotyping from electronic health records. *Scientific Reports*. 10(1). <https://doi.org/10.1038/s41598-020-58178-1>

Zhang TG, Wang YF, Zang XR, Zhuang W, Chen JB. 2013. Active optical clock based on four-level quantum system. *Chinese Science Bulletin*. 58(17):2033-2038. <https://doi.org/10.1007/s11434-013-5877-0>