

### **Chromatin organization regulates viral egress dynamics**

Aho, V., Mylly, M., Ruokolainen, V., Hakanen, S., Mäntylä, E., Virtanen, J., Hukkanen, V., Kühn, T., Timonen, J., Mattila, K., Larabell, C. A. & Vihinen-Ranta, M., 1 Dec 2017, In : Scientific Reports. 7, 1, 3692.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Automatic Posture and Movement Tracking of Infants with Wearable Movement Sensors**

Airaksinen, M., Räsänen, O., Ilén, E., Häyrynen, T., Kivi, A., Marchi, V., Gallen, A., Blom, S., Varhe, A., Kaartinen, N., Haataja, L. & Vanhatalo, S., 13 Jan 2020, In : Scientific Reports. 10, 1, 13 p., 169.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Facile strain analysis of largely bending films by a surface-labelled grating method**

Akamatsu, N., Tashiro, W., Saito, K., Mamiya, J. I., Kinoshita, M., Ikeda, T., Takeya, J., Fujikawa, S., Priimagi, A. & Shishido, A., 20 Jun 2014, In : Scientific Reports. 4, 5377.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Speeding up crystallization**

Akola, J. & Jones, R. O., 15 Dec 2017, In : Science. 358, 6369, p. 1386 1 p.

Research output: Contribution to journal > Review Article > Scientific > peer-review

### **DroneRF dataset: A dataset of drones for RF-based detection, classification and identification**

Allahham, MHD. S., Al-Sa'd, M. F., Al-Ali, A., Mohamed, A., Khattab, T. & Erbad, A., 1 Oct 2019, In : Data in Brief. 26, 104313.

Research output: Contribution to journal > Article > Scientific > peer-review

### **On the linear programming bound for linear Lee codes**

Astola, H. & Tabus, I., 1 Mar 2016, In : SpringerPlus. 5, 1, p. 1-13 13 p., 246.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Aerosol gas exchange system (AGES) for nanoparticle sampling at elevated temperatures: Modeling and experimental characterization**

Bainschab, M., Martikainen, S., Keskinen, J., Bergmann, A. & Karjalainen, P., 20 Nov 2019, In : Scientific Reports. 9, 1, 12 p., 17149.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Multilayer Aggregation with Statistical Validation: Application to Investor Networks**

Baltakys, K., Kanninen, J. & Emmert-Streib, F., 1 Dec 2018, In : Scientific Reports. 8, 1, 8198.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Real sequence effects on the search dynamics of transcription factors on DNA**

Bauer, M., Rasmussen, E. S., Lomholt, M. A. & Metzler, R., 8 Jul 2015, In : Scientific Reports. 5, 10072.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Automatic classification of IgA endomysial antibody test for celiac disease: a new method deploying machine learning**

Caetano dos Santos, F. L., Michalek, I. M., Laurila, K., Kaukinen, K., Hyttinen, J. & Lindfors, K., 1 Dec 2019, In : Scientific Reports. 9, 1, 9217.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Step down Vascular Calcification Analysis using State-of-the-Art Nanoanalysis Techniques**

Curtze, S. C., Kratz, M., Steinert, M. & Vogt, S., 16 Mar 2016, In : Scientific Reports. 6, 23285.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Mechanically driven strategies to improve electromechanical behaviour of printed stretchable electronic systems**

Di Vito, D., Mosallaei, M., Khorramdel, B., Kanerva, M. & Mäntysalo, M., 2020, In : Scientific Reports. 10, 1, 11 p., 12037.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Surface-Enhanced Impulsive Coherent Vibrational Spectroscopy**

Du, J., Harra, J., Virkki, M., Mäkelä, J. M., Leng, Y., Kauranen, M. & Kobayashi, T., 4 Nov 2016, In : Scientific Reports. 6, 36471.

Research output: Contribution to journal > Article > Scientific > peer-review

### **A Bayesian analysis of the chromosome architecture of human disorders by integrating reductionist data**

Emmert-Streib, F., De Matos Simoes, R., Tripathi, S., Glazko, G. V. & Dehmer, M., 2012, In : Scientific Reports. 2, 513.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Effects of Sintering Temperature on Crystallization and Fabrication of Porous Bioactive Glass Scaffolds for Bone Regeneration**

Erasmus, E. P., Johnson, O. T., Sigalas, I. & Massera, J., 1 Dec 2017, In : Scientific Reports. 7, 1, 6046.

Research output: Contribution to journal > Article > Scientific > peer-review

### **In vitro Evaluation of Porous borosilicate, borophosphate and phosphate Bioactive Glasses Scaffolds fabricated using Foaming Agent for Bone Regeneration**

Erasmus, E. P., Sule, R., Johnson, O. T., Massera, J. & Sigalas, I., 1 Dec 2018, In : Scientific Reports. 8, 1, 3699.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Subangstrom resolution x-ray structure details aquaporin-water interactions**

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Research output: Contribution to journal > Article > Scientific > peer-review

### **Lower bound for the spatial extent of localized modes in photonic-crystal waveguides with small random imperfections**

Faggiani, R., Baron, A., Zang, X., Lalouat, L., Schulz, S. A., O'Regan, B., Vynck, K., Cluzel, B., De Fornel, F., Krauss, T. F. & Lalanne, P., 1 Jun 2016, In : Scientific Reports. 6, 27037.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Upstream Transcription Factor 1 (USF1) allelic variants regulate lipoprotein metabolism in women and USF1 expression in atherosclerotic plaque**

Fan, Y. M., Hernesniemi, J., Oksala, N., Levula, M., Raitoharju, E., Collings, A., Hutri-Kähönen, N., Juonala, M., Marniemi, J., Lyytikäinen, L. P., Seppälä, I., Mennander, A., Tarkka, M., Kangas, A. J., Soininen, P., Salenius, J. P., Klopp, N., Illig, T., Laitinen, T., Ala-Korpela, M., Laaksonen, R., Viikari, J., Kähönen, M., Raitakari, O. T. & Lehtimäki, T., 11 Apr 2014, In : Scientific Reports. 4, 4650.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Sensitivity enhancement of flexible gas sensors via conversion of inkjet-printed silver electrodes into porous gold counterparts**

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Research output: Contribution to journal > Article > Scientific > peer-review

### **Azobenzene-based sinusoidal surface topography drives focal adhesion confinement and guides collective migration of epithelial cells**

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Research output: Contribution to journal > Article > Scientific > peer-review

### **Highly ductile amorphous oxide at room temperature and high strain rate**

Frankberg, E. J., Kalikka, J., Ferré, F. G., Joly-Pottuz, L., Salminen, T., Hintikka, J., Hokka, M., Koneti, S., Douillard, T., Le Saint, B., Kreiml, P., Cordill, M. J., Epicier, T., Stauffer, D., Vanazzi, M., Roiban, L., Akola, J., Fonzo, F. D., Levänen, E. & Masenelli-Varlot, K., 15 Nov 2019, In : Science. 366, 6467, p. 864-869 6 p.

Research output: Contribution to journal > Article > Scientific > peer-review

### **First passage time distribution in heterogeneity controlled kinetics: Going beyond the mean first passage time**

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Research output: Contribution to journal > Article > Scientific > peer-review

**Membrane omega-3 fatty acids modulate the oligomerisation kinetics of adenosine A<sub>2A</sub> and dopamine D<sub>2</sub> receptors**  
Guixà-González, R., Javanainen, M., Gómez-Soler, M., Cordobilla, B., Domingo, J. C., Sanz, F., Pastor, M., Ciruela, F., Martínez-Seara, H. & Selent, J., 22 Jan 2016, In : Scientific Reports. 6, 19839.  
Research output: Contribution to journal > Article > Scientific > peer-review

**The evolutionary history of lethal metastatic prostate cancer**

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Research output: Contribution to journal > Article > Scientific > peer-review

**Structure-phenotype correlations of human CYP21A2 mutations in congenital adrenal hyperplasia**

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Research output: Contribution to journal > Article > Scientific > peer-review

**Genome-wide modeling of transcription kinetics reveals patterns of RNA production delays**

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Research output: Contribution to journal > Article > Scientific > peer-review

**Genetic similarity of biological samples to counter bio-hacking of DNA-sequencing functionality**

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Research output: Contribution to journal > Article > Scientific > peer-review

**Brain hemodynamic activity during viewing and re-viewing of comedy movies explained by experienced humor**

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**Physical chemistry: Water's wafer-thin surface**

Jungwirth, P., 8 Jun 2011, In : Nature. 474, 7350, p. 168-169 2 p.  
Research output: Contribution to journal > Short survey > Scientific > peer-review

**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**

Juutinen, M., Wang, C., Zhu, J., Haladjian, J., Ruokolainen, J., Puustinen, J. & Vehkaoja, A., 2020, In : PLoS ONE. 15, 7, 19 p., e0236258.  
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**Entropy analysis of word-length series of natural language texts: Effects of text language and genre**

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**Automatization and stress analysis data of CoCr laser weld fatigue tests**

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**Changes in hemodynamics associated with metabolic syndrome are more pronounced in women than in men**

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### **N-Glycosylation as determinant of epidermal growth factor receptor conformation in membranes**

Kaszuba, K., Grzybek, M., Orłowski, A., Danne, R., Róg, T., Simons, K., Coskun, Ü. & Vattulainen, I., 7 Apr 2015, In : Proceedings of the National Academy of Sciences of the United States of America. 112, 14, p. 4334-4339 6 p.

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### **Väitöstilaisuus yliopiston imagonluojana**

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### **Optimized dispersion quality of aqueous carbon nanotube colloids as a function of sonochemical yield and surfactant/CNT ratio**

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Research output: Contribution to journal › Article › Scientific › peer-review

### **Scaling and correlation properties of RR and QT intervals at the cellular level**

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### **Personalized Monitoring and Advance Warning System for Cardiac Arrhythmias**

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### **Gaussian Light Model in Brightfield Optical Projection Tomography**

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### **Real-time characterization of spectral instabilities in a mode-locked fibre laser exhibiting soliton-similariton dynamics**

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### **Quasi two-dimensional astigmatic solitons in soft chiral metastructures**

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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### **Structure and permeation mechanism of a mammalian urea transporter**

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### **Human iPSC derived disease model of MERTK-associated retinitis pigmentosa**

Lukovic, D., Castro, A. A., Delgado, A. B. G., Bernal, M. D. L. A. M., Pelaez, N. L., Lloret, A. D., Espejo, R. P., Kamenarova, K., Sánchez, L. F., Cuenca, N., Cortón, M., Fernandez, A. A., Sorkio, A., Skottman, H., Ayuso, C., Erceg, S. & Bhattacharya, S. S., 11 Aug 2015, In : Scientific Reports. 5, 12910.

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Research output: Contribution to journal › Article › Scientific › peer-review

### **Caustics and rogue waves in an optical sea**

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### **Comparative proteomics reveals human pluripotent stem cell-derived limbal epithelial stem cells are similar to native ocular surface epithelial cells**

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### **Glucosylceramide modifies the LPS-induced inflammatory response in macrophages and the orientation of the LPS/TLR4 complex in silico**

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### **Dynamical heart beat correlations during running**

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### **Ricci-flow based conformal mapping of the proximal femur to identify exercise loading effects**

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### **1700 nm dispersion managed mode-locked bismuth fiber laser**

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### **An ensemble of classifiers based on different texture descriptors for texture classification**

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### **Interleukin-6 and microRNA profiles induced by oral bacteria in human atheroma derived and healthy smooth muscle cells**

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Postila, P. A., Vattulainen, I. & Róg, T., 19 Jan 2016, In : Scientific Reports. 6, 19345.  
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### **Atomistic determinants of co-enzyme Q reduction at the Q<sub>1</sub>-site of the cytochrome bc<sub>1</sub> complex**

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### **Variance-corrected Michaelis-Menten equation predicts transient rates of single-enzyme reactions and response times in bacterial gene-regulation**

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Railanmaa, A., Soltani, A., Lehtimäki, S., Pournoori, N., Keskinen, J., Hokka, M. & Lupo, D., 2020, In : Scientific Reports. 10, 1, 9 p., 15194.  
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### **A Highly Efficient Sensor Platform Using Simply Manufactured Nanodot Patterned Substrates**

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### **Highly-Sensitive Refractive Index Sensing by Near-infrared Metatronic Nanocircuits**

Rashed, A. R., Gudulluoglu, B., Yun, H. W., Habib, M., Boyaci, I. H., Hong, S. H., Ozbay, E. & Caglayan, H., 1 Dec 2018, In : Scientific Reports. 8, 1, 11457.  
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### **Superdiffusion dominates intracellular particle motion in the supercrowded cytoplasm of pathogenic *Acanthamoeba castellanii***

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#### **Infiltrated bunch of solitons in Bi-doped frequency-shifted feedback fibre laser operated at 1450 nm**

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#### **Traffic is a major source of atmospheric nanocluster aerosol**

Rönkkö, T., Kuuluvainen, H., Karjalainen, P., Keskinen, J., Hillamo, R., Niemi, J. V., Pirjola, L., Timonen, H. J., Saarikoski, S., Saukko, E., Järvinen, A., Silvennoinen, H., Rostedt, A., Olin, M., Yli-Ojanperä, J., Nousiainen, P., Kousa, A. & Dal Maso, M., 18 Jul 2017, In : Proceedings of the National Academy of Sciences of the United States of America. 114, 29, p. 7549-7554 6 p.

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#### **Trends for isolated amino acids and dipeptides: Conformation, divalent ion binding, and remarkable similarity of binding to calcium and lead**

Ropo, M., Blum, V. & Baldauf, C., 3 Nov 2016, In : Scientific Reports. 6, 35772.

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#### **Molecular mechanisms of Charcot-Marie-Tooth neuropathy linked to mutations in human myelin protein P2**

Ruskamo, S., Nieminen, T., Kristiansen, C. K., Vatne, G. H., Baumann, A., Hallin, E. I., Raasakka, A., Joensuu, P., Bergmann, U., Vattulainen, I. & Kursula, P., 1 Dec 2017, In : Scientific Reports. 7, 1, 6510.

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#### **Machine learning analysis of rogue solitons in supercontinuum generation**

Salmela, L., Lapre, C., Dudley, J. M. & Genty, G., 2020, In : Scientific Reports. 10, 9596.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Optical detection of radon decay in air**

Sand, J., Ihtola, S., Peräjärvi, K., Toivonen, H. & Toivonen, J., 12 Feb 2016, In : Scientific Reports. 6, 21532.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Segmented molecular design of self-healing proteinaceous materials**

Sariola, V., Pena-Francesch, A., Jung, H., Çetinkaya, M., Pacheco, C., Sitti, M. & Demirel, M. C., 1 Sep 2015, In : Scientific Reports. 5, 13482.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Porous poly-L-lactide-co-1-caprolactone scaffold: A novel biomaterial for vaginal tissue engineering**

Sartoneva, R., Kuismanen, K., Juntunen, M., Karjalainen, S., Hannula, M., Kyllönen, L., Hyttinen, J., Huhtala, H., Paakinaho, K. & Miettinen, S., 1 Aug 2018, In : Royal Society Open Science. 5, 8, 180811.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Mechanistic principles underlying regulation of the actin cytoskeleton by phosphoinositides**

Senju, Y., Kalimeri, M., Koskela, E. V., Somerharju, P., Zhao, H., Vattulainen, I. & Lappalainen, P., 24 Oct 2017, In : Proceedings of the National Academy of Sciences of the United States of America. 114, 43, p. E8977-E8986

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Bioinspired underwater locomotion of light-driven liquid crystal gels**

Shahsavan, H., Aghakhani, A., Zeng, H., Guo, Y., Davidson, Z. S., Priimägi, A. & Sitti, M., 10 Mar 2020, In : Proceedings of the National Academy of Sciences of the United States of America. 117, 10, p. 5125-5133 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **Proton-coupled electron transfer and the role of water molecules in proton pumping by cytochrome c oxidase**

Sharma, V., Enkavi, G., Vattulainen, I., Róg, T. & Wikström, M., 17 Feb 2015, In : Proceedings of the National Academy of Sciences of the United States of America. 112, 7, p. 2040-2045 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Redox-induced activation of the proton pump in the respiratory complex I**

Sharma, V., Belevich, G., Gamiz-Hernandez, A. P., Róg, T., Vattulainen, I., Verkhovskaya, M. L., Wikström, M., Hummer, G. & Kaila, V. R. I., 15 Sep 2015, In : Proceedings of the National Academy of Sciences of the United States of America. 112, 37, p. 11571-11576 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

### **An Optical Method for the In-Vivo Characterization of the Biomechanical Response of the Right Ventricle**

Soltani, A., Lahti, J., Järvelä, K., Curtze, S., Laurikka, J., Hokka, M. & Kuokkala, V. T., 1 Dec 2018, In : Scientific Reports. 8, 1, 6831.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Automatic knee osteoarthritis diagnosis from plain radiographs: A deep learning-based approach**

Tiulpin, A., Thevenot, J., Rahtu, E., Lehenkari, P. & Saarakkala, S., 1 Dec 2018, In : Scientific Reports. 8, 1, 1727.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Multimodal Machine Learning-based Knee Osteoarthritis Progression Prediction from Plain Radiographs and Clinical Data**

Tiulpin, A., Klein, S., Bierma-Zeinstra, S. M. A., Thevenot, J., Rahtu, E., Meurs, J. V., Oei, E. H. G. & Saarakkala, S., 1 Dec 2019, In : Scientific Reports. 9, 1, 20038.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Emergent rogue wave structures and statistics in spontaneous modulation instability**

Toenger, S., Godin, T., Billet, C., Dias, F., Erkintalo, M., Genty, G. & Dudley, J. M., 20 May 2015, In : Scientific Reports. 5, 10380.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Sub-parts-per-trillion level sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy**

Tomberg, T., Vainio, M., Hietä, T. & Halonen, L., 2018, In : Scientific Reports. 8, 1, 1848.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Extensive transduction of nonrepetitive DNA mediated by L1 retrotransposition in cancer genomes**

Tubio, J. M. C., Li, Y., Ju, Y. S., Martincorena, I., Cooke, S. L., Tojo, M., Gundem, G., Pipinikas, C. P., Zamora, J., Raine, K., Menzies, A., Roman-Garcia, P., Fullam, A., Gerstung, M., Shlien, A., Tarpey, P. S., Papaemmanuil, E., Knappskog, S., Van Loo, P., Ramakrishna, M., Davies, H. R., Marshall, J., Wedge, D. C., Teague, J. W., Butler, A. P., Nik-Zainal, S., Alexandrov, L., Behjati, S., Yates, L. R., Bolli, N., Mudie, L., Hardy, C., Martin, S., McLaren, S., O'Meara, S., Anderson, E., Maddison, M., Gamble, S., Foster, C., Warren, A. Y., Whitaker, H., Brewer, D., Eeles, R., Cooper, C., Neal, D., Lynch, A. G., Visakorpi, T., Isaacs, W. B., Van't Veer, L., Caldas, C., Desmedt, C., Sotiriou, C., Aparicio, S., Foekens, J. A., Eyfjörd, J. E., Lakhani, S. R., Thomas, G., Myklebost, O., Span, P. N., Børresen-Dale, A. L., Richardson, A. L., Van De Vijver, M., Vincent-Salomon, A., Van Den Eynden, G. G., Flanagan, A. M., Futreal, P. A., Janes, S. M., Bova, G. S., Stratton, M. R., McDermott, U. & Campbell, P. J., 1 Aug 2014, In : Science. 345, 6196, 1251343.

Research output: Contribution to journal › Review Article › Scientific › peer-review

### **Genomically amplified Akt3 activates DNA repair pathway and promotes glioma progression**

Turner, K. M., Sun, Y., Ji, P., Granberg, K. J., Bernard, B., Hu, L., Cogdell, D. E., Zhou, X., Yli-Harja, O., Nykter, M., Shmulevich, I., Yung, W. K. A., Fuller, G. N. & Zhang, W., 17 Mar 2015, In : Proceedings of the National Academy of Sciences of the United States of America. 112, 11, p. 3421-3426 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Behaviour of one-step spray-coated carbon nanotube supercapacitor in ambient light harvester circuit with printed organic solar cell and electrochromic display**

Tuukkanen, S., Välimäki, M., Lehtimäki, S., Vuorinen, T. & Lupo, D., 9 Mar 2016, In : Scientific Reports. 6, 22967.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Analysis of spatial heterogeneity in normal epithelium and preneoplastic alterations in mouse prostate tumor models**

Valkonen, M., Ruusuvaori, P., Kartasalo, K., Nykter, M., Visakorpi, T. & Latonen, L., 20 Mar 2017, In : Scientific Reports. 7, 44831.

Research output: Contribution to journal › Article › Scientific › peer-review



### **Three-Dimensional Printing of the Nasal Cavities for Clinical Experiments**

Valtonen, O., Ormiskangas, J., Kivekäs, I., Rantanen, V., Dean, M., Poe, D., Järnstedt, J., Lekkala, J., Saarenrinne, P. & Rautiainen, M., 16 Jan 2020, In : Scientific Reports. 10, 7 p., 502.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Comparison of electron injection and recombination on TiO<sub>2</sub> nanoparticles and ZnO nanorods photosensitized by phthalocyanine**

Virkki, K., Tervola, E., Ince, M., Torres, T. & Tkachenko, N. V., 11 Jul 2018, In : Royal Society Open Science. 5, 7, 180323.

Research output: Contribution to journal › Article › Scientific › peer-review

### **X-ray microtomography is a novel method for accurate evaluation of small-bowel mucosal morphology and surface area**

Virta, J., Hannula, M., Tamminen, I., Lindfors, K., Kaukinen, K., Popp, A., Taavela, J., Saavalainen, P., Hiltunen, P., Hyttinen, J. & Kurppa, K., 2020, In : Scientific Reports. 10, 1, 11 p., 13164.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Rapid growth of new atmospheric particles by nitric acid and ammonia condensation**

Wang, M., Kong, W., Marten, R., He, X. C., Chen, D., Pfeifer, J., Heitto, A., Kontkanen, J., Dada, L., Kürten, A., Yli-Juuti, T., Manninen, H. E., Amanatidis, S., Amorim, A., Baalbaki, R., Baccarini, A., Bell, D. M., Bertozzi, B., Bräkling, S., Brilke, S., Murillo, L. C., Chiu, R., Chu, B., De Menezes, L. P., Duplissy, J., Finkenzeller, H., Carracedo, L. G., Granzin, M., Guida, R., Hansel, A., Hofbauer, V., Krechmer, J., Lehtipalo, K., Lamkaddam, H., Lampimäki, M., Lee, C. P., Makhmutov, V., Marie, G., Mathot, S., Mauldin, R. L., 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, Y. J., Tomé, A., Wagner, A. C., Wang, D. S., Wang, Y., Weber, S. K., Winkler, P. M., Wlasits, P. J., Wu, Y., Xiao, M., Ye, Q., Zauner-Wieczorek, M., Zhou, X., Volkamer, R., Riipinen, I., Dommen, J., Curtius, J., Baltensperger, U., Kulmala, M., Worsnop, D. R., Kirkby, J., Seinfeld, J. H., El-Haddad, I., Flagan, R. C. & Donahue, N. M., 14 May 2020, In : Nature. 581, 7807, p. 184-189 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Redox-coupled quinone dynamics in the respiratory complex I**

Warnau, J., Sharma, V., Gamiz-Hernandez, A. P., Luca, A. D., Haapanen, O., Vattulainen, I., Wikström, M., Hummer, G. & Kaila, V. R. I., 4 Sep 2018, In : Proceedings of the National Academy of Sciences of the United States of America. 115, 36, p. E8413-E8420

Research output: Contribution to journal › Article › Scientific › peer-review

### **Insulin resistance is associated with altered amino acid metabolism and adipose tissue dysfunction in normoglycemic women**

Wiklund, P., Zhang, X., Pekkala, S., Autio, R., Kong, L., Yang, Y., Keinänen-Kiukaanniemi, S., Alen, M. & Cheng, S., 15 Apr 2016, In : Scientific Reports. 6, 24540.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Mechanism of homodimeric cytokine receptor activation and dysregulation by oncogenic mutations**

Wilmes, S., Hafer, M., Vuorio, J., Tucker, J. A., Winkelmann, H., Löchte, S., Stanly, T. A., Pulgar Prieto, K. D., Poojari, C., Sharma, V., Richter, C. P., Kurre, R., Hubbard, S. R., Christopher Garcia, K., Moraga, I., Vattulainen, I., Hitchcock, I. S. & Piehler, J., 7 Feb 2020, In : Science. 367, 6478, p. 643-652 10 p.

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### **Combining deep learning with token selection for patient phenotyping from electronic health records**

Yang, Z., Dehmer, M., Yli-Harja, O. & Emmert-Streib, F., 2020, In : Scientific Reports. 10, 1, 18 p., 1432.

Research output: Contribution to journal › Article › Scientific › peer-review

### **Active optical clock based on four-level quantum system**

Zhang, T. G., Wang, Y. F., Zang, X. R., Zhuang, W. & Chen, J. B., Jun 2013, In : Chinese Science Bulletin. 58, 17, p. 2033-2038 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review