

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

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

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.

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

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

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

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

Dynamical heart beat correlations during running

Molkkari, M., Angelotti, G., Emig, T. & Räsänen, E., 2020, In : Scientific Reports. 10, 1, 9 p., 13627.

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

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

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

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.

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

Skin-conformable printed supercapacitors and their performance in wear

Railanmaa, A., Soltani, A., Lehtimäki, S., Pournoori, N., Keskinen, J., Hokka, M. & Lupo, D., 2020, In : Scientific Reports. 10, 1, 9 p., 15194.

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

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

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

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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

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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

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

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

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

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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

Automatization and stress analysis data of CoCr laser weld fatigue tests

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

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

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Non-toxic printed supercapacitors operating in sub-zero conditions

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

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Gaussian Light Model in Brightfield Optical Projection Tomography

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

Kim, J., Shah, D., Potapov, I., Latukka, J., Aalto-Setälä, K. & Räsänen, E., 2019, In : Scientific Reports. 9, 1, 3651.

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Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors

Lehtipalo, K., Yan, C., Dada, L., Bianchi, F., Xiao, M., Wagner, R., Stolzenburg, D., Ahonen, L. R., Amorim, A., Baccarini, A., Bauer, P. S., Baumgartner, B., Bergen, A., Bernhammer, A. K., Breitenlechner, M., Brilke, S., Buchholz, A., Mazon, S. B., Chen, D., Chen, X., Dias, A., Dommen, J., Draper, D. C., 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, J. C., Hofbauer, V., Hoyle, C. R., Jokinen, T., Kangasluoma, J., Kerminen, V. M., Kim, C., Kirkby, J., Kontkanen, J., Kürten, A., Lawler, M. J., Mai, H., Mathot, S., Nieminen, T. & Virtanen, A., 12 Dec 2018, In : Science Advances. 4, 12, eaau5363.

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

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

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

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

Mobarak, E., Håversen, L., Manna, M., Rutberg, M., Levin, M., Perkins, R., Rog, T., Vattulainen, I. & Borén, J., 1 Dec 2018, In : Scientific Reports. 8, 1, 13600.

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

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

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

Information transfer in QT-RR dynamics: Application to QT-correction

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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

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

Multilayer Aggregation with Statistical Validation: Application to Investor Networks

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

Added value of autoregulation and multi-step kinetics of transcription initiation

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Redox-coupled quinone dynamics in the respiratory complex I

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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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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

Comparison of electron injection and recombination on TiO₂ nanoparticles and ZnO nanorods photosensitized by phthalocyanine

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

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

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

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Speeding up crystallization

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

Chromatin organization regulates viral egress dynamics

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Curved optical solitons subject to transverse acceleration in reorientational soft matter

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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

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

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

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

Personalized Monitoring and Advance Warning System for Cardiac Arrhythmias

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Rate-limiting steps in transcription dictate sensitivity to variability in cellular components

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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

Mechanistic principles underlying regulation of the actin cytoskeleton by phosphoinositides

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Traffic is a major source of atmospheric nanocluster aerosol

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

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

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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

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

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Atomistic determinants of co-enzyme Q reduction at the Q₁-site of the cytochrome bc₁ complex

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

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

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1700 nm dispersion managed mode-locked bismuth fiber laser

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

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

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

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

Quasi two-dimensional astigmatic solitons in soft chiral metastructures

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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.

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Optical detection of radon decay in air

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Membrane omega-3 fatty acids modulate the oligomerisation kinetics of adenosine A_{2A} and dopamine D₂ receptors

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Selective effect of cell membrane on synaptic neurotransmission

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Using multi-step proposal distribution for improved MCMC convergence in Bayesian network structure learning

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

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

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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

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

Mikhailova, A., Jylhä, A., Rieck, J., Nättinen, J., Ilmarinen, T., Veréb, Z., Aapola, U., Beuerman, R., Petrovski, G., Uusitalo, H. & Skottman, H., 1 Oct 2015, In : Scientific Reports. 5, 14684.

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

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

A Highly Efficient Sensor Platform Using Simply Manufactured Nanodot Patterned Substrates

Rasappa, S., Ghoshal, T., Borah, D., Senthamaraiannan, R., Holmes, J. D. & Morris, M. A., 20 Aug 2015, In : Scientific Reports. 5, 13270.

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

Human iPSC derived disease model of MERTK-associated retinitis pigmentosa

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

Caustics and rogue waves in an optical sea

Mathis, A., Froehly, L., Toenger, S., Dias, F., Genty, G. & Dudley, J. M., 6 Aug 2015, In : Scientific Reports. 5, 12822.

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

Superdiffusion dominates intracellular particle motion in the supercrowded cytoplasm of pathogenic *Acanthamoeba castellanii*

Reverey, J. F., Jeon, J.-H., Bao, H., Leippe, M., Metzler, R. & Selhuber-Unkel, C., 30 Jun 2015, In : Scientific Reports. 5, 11690.

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

The evolutionary history of lethal metastatic prostate cancer

Gundem, G., Van Loo, P., Kremeyer, B., Alexandrov, L. B., Tubio, J. M. C., Papaemmanuil, E., Brewer, D. S., Kallio, H. M. L., Högnäs, G., Annala, M., Kivinummi, K., Goody, V., Latimer, C., O'Meara, S., Dawson, K. J., Isaacs, W., Emmert-Buck, M. R., Nykter, M., Foster, C., Kote-Jarai, Z., Easton, D., Whitaker, H. C., Neal, D. E., Cooper, C. S., Eeles, R. A., Visakorpi, T., Campbell, P. J., McDermott, U., Wedge, D. C. & Bova, G. S., 15 Apr 2015, In : Nature. 520, 7547, p. 353-357 5 p.

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

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.

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

Genomically amplified Akt3 activates DNA repair pathway and promotes glioma progression

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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

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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

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

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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

Tooth wear and dentoalveolar remodeling are key factors of morphological variation in the Dmanisi mandibles

Margvelashvili, A., Zollikofer, C. P. E., Lordkipanidze, D., Peltomäki, T. & De León, M. S. P., 22 Oct 2013, In : Proceedings of the National Academy of Sciences of the United States of America. 110, 43, p. 17278-17283 6 p.

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

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

Paci, M., Nanni, L. & Severi, S., Jul 2013, In : Journal of King Saud University - Science. 25, 3, p. 235-244 10 p.

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

Active optical clock based on four-level quantum system

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Transient formation of water-conducting states in membrane transporters

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

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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

Entropy analysis of word-length series of natural language texts: Effects of text language and genre

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Structure and permeation mechanism of a mammalian urea transporter

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

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

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Research output: Contribution to journal › Short survey › Scientific › peer-review