

Statistical evaluation of barkhausen noise testing (BNT) for ground samples

Tomkowski, R., Sorsa, A., Santa-Aho, S., Lundin, P. & Vippola, M., 1 Nov 2019, In : Sensors (Switzerland). 19, 21, 4716.
Research output: Contribution to journal > Article > Scientific > peer-review

Improved water services cooperation through clarification of rules and roles

Inha, L. M., Katko, T. S. & Rajala, R. P., 19 Oct 2019, In : Water (Switzerland). 11, 10, 2172.
Research output: Contribution to journal > Article > Scientific > peer-review

Controlled Orientations of Neighboring Tetracene Units by Mixed Self-Assembled Monolayers on Gold Nanoclusters for High-Yield and Long-Lived Triplet Excited States through Singlet Fission

Saegusa, T., Sakai, H., Nagashima, H., Kobori, Y., Tkachenko, N. V. & Hasobe, T., 18 Sep 2019, In : Journal of the American Chemical Society. 141, 37, p. 14720-14727 8 p.
Research output: Contribution to journal > Article > Scientific > peer-review

An efficient auxin-inducible degron system with low basal degradation in human cells

Li, S., Prasanna, X., Salo, V. T., Vattulainen, I. & Ikonen, E., 1 Sep 2019, In : Nature Methods. 16, 9, p. 866-869 4 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Behavior of the DPH fluorescence probe in membranes perturbed by drugs

Poojari, C., Wilkosz, N., Lira, R. B., Dimova, R., Jurkiewicz, P., Petka, R., Kepczynski, M. & Róg, T., 1 Sep 2019, In : Chemistry and Physics of Lipids. 223, 104784.
Research output: Contribution to journal > Article > Scientific > peer-review

Influence of ions to modulate hydrazone and oxime reaction kinetics to obtain dynamically cross-linked hyaluronic acid hydrogels

Wang, S., Nawale, G. N., Oommen, O. P., Hilborn, J. & Varghese, O. P., 21 Aug 2019, In : Polymer Chemistry. 10, 31, p. 4322-4327 6 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Characterisation and in vitro and in vivo evaluation of supercritical-CO₂-foamed β -TCP/PLCL composites for bone applications

Pitkänen, S., Paakinaho, K., Pihlman, H., Ahola, N., Hannula, M., Asikainen, S., Manninen, M., Morelius, M., Keränen, P., Hyttinen, J., Kellomäki, M., Laitinen-Vapaavuori, O. & Miettinen, S., 5 Aug 2019, In : European cells & materials. 38, p. 35-50 16 p.
Research output: Contribution to journal > Article > Scientific > peer-review

An architectural understanding of natural sway frequencies in trees

Jackson, T., Shenkin, A., Moore, J., Bunce, A., van Emmerik, T., Kane, B., Burcham, D., James, K., Selker, J., Calders, K., Origo, N., Disney, M., Burt, A., Wilkes, P., Raunonen, P., Gonzalez de Tanago Menaca, J., Lau, A., Herold, M., Goodman, R. C., Fourcaud, T. & Malhi, Y., 28 Jun 2019, In : Journal of the Royal Society. Interface. 16, 155, 1 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Methods for simultaneous robot-world-hand-eye calibration: A comparative study

Ali, I., Suominen, O., Gotchev, A. & Morales, E. R., 2 Jun 2019, In : Sensors (Switzerland). 19, 12, 2837.
Research output: Contribution to journal > Article > Scientific > peer-review

Connection of Collimation, Asymmetric Beaming, and Independent Transmission-Reflection Processes in Concentric-Groove Gratings Supporting Spoof Surface Plasmons

Habib, M., Serebryannikov, A. E., Caglayan, H., Vandenbosch, G. A. E. & Ozbay, E., Jun 2019, In : Plasmonics. 14, 3, p. 721-729 9 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H₂O₂ Using Low-Intensity Direct Current

Kekonen, A., Bergelin, M., Johansson, M., Kumar Joon, N., Bobacka, J. & Viik, J., 31 May 2019, In : Sensors. 19, 11
Research output: Contribution to journal > Article > Scientific > peer-review

Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution

Kerst, T., Malmbeck, R., Ial Banik, N. L. & Toivonen, J., 1 Apr 2019, In : *Sensors* (Switzerland). 19, 7, 1602.

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

Positioning information privacy in intelligent transportation systems: An overview and future perspective

Ometov, A., Bezzateev, S., Davydov, V., Shchesniak, A., Masek, P., Lohan, E. S. & Koucheryavy, Y., 1 Apr 2019, In : *Sensors*. 19, 7, 1603.

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

Iterative unsupervised domain adaptation for generalized cell detection from brightfield z-stacks

Liimatainen, K., Kananen, L., Latonen, L. & Ruusuvoori, P., 15 Feb 2019, In : *BMC Bioinformatics*. 20, 1, 80.

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

Regulation of asymmetries in the kinetics and protein numbers of bacterial gene expression

Startceva, S., Kandavalli, V. K., Visa, A. & Ribeiro, A. S., 1 Feb 2019, In : *Biochimica et Biophysica Acta - Gene Regulatory Mechanisms*. 1862, 2, p. 119-128 10 p.

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

Advances in Human Stem Cell-Derived Neuronal Cell Culturing and Analysis

Ylä-Outinen, L., Tanskanen, J. M. A., Kapucu, F. E., Hyysalo, A., Hyttinen, J. A. K. & Narkilahti, S., 2019, *In Vitro Neuronal Networks: From Culturing Methods to Neuro-Technological Applications*. Springer New York LLC, p. 299-329 31 p. (Advances in Neurobiology; vol. 22).

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

SCIP: a single-cell image processor toolbox

Martins, L., Neeli-Venkata, R., Oliveira, S. M. D., Häkkinen, A., Ribeiro, A. S. & Fonseca, J. M., 15 Dec 2018, In : *Bioinformatics*. 34, 24, p. 4318-4320 3 p.

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

M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components

Rinne, J., Keskinen, J., Berger, P. R., Lupo, D. & Valkama, M., 16 Nov 2018, In : *Sensors* (Basel, Switzerland). 18, 11

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

Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters

Chevrier, D. M., Raich, L., Rovira, C., Das, A., Luo, Z., Yao, Q., Chatt, A., Xie, J., Jin, R., Akola, J. & Zhang, P., 14 Nov 2018, In : *Journal of the American Chemical Society*. 140, 45, p. 15430-15436 7 p.

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

How to minimize dye-induced perturbations while studying biomembrane structure and dynamics: PEG linkers as a rational alternative

Mobarak, E., Javanainen, M., Kulig, W., Honigmann, A., Sezgin, E., Aho, N., Eggeling, C., Rog, T. & Vattulainen, I., Nov 2018, In : *Biochimica et Biophysica Acta - Biomembranes*. 1860, 11, p. 2436-2445

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

Alzheimer's disease and alpha-synuclein pathology in the olfactory bulbs of infants, children, teens and adults ≤40 years in Metropolitan Mexico City. APOE4 carriers at higher risk of suicide accelerate their olfactory bulb pathology

Calderón-Garcidueñas, L., González-Maciél, A., Reynoso-Robles, R., Kulesza, R. J., Mukherjee, P. S., Torres-Jardón, R., Rönkkö, T. & Doty, R. L., 1 Oct 2018, In : *Environmental Research*. 166, p. 348-362 15 p.

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

Comparative analysis of tissue reconstruction algorithms for 3D histology

Kartasalo, K., Latonen, L., Vihinen, J., Visakorpi, T., Nykter, M. & Ruusuvoori, P., 1 Sep 2018, In : *Bioinformatics*. 34, 17, p. 3013-3021 9 p.

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

Physiologically-relevant levels of sphingomyelin, but not GM1, induces a β -sheet-rich structure in the amyloid- β (1-42) monomer

Owen, M. C., Kulig, W., Poojari, C., Rog, T. & Strodel, B., Sep 2018, In : *Biochimica et Biophysica Acta - Biomembranes*. 1860, 9, p. 1709-1720

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

Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra

Pirhonen, M., Peltokangas, M. & Vehkaoja, A., 1 Jun 2018, In : *Sensors*. 18, 6, 1693.

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

Evaluation of dry electrodes in canine heart rate monitoring

Virtanen, J., Somppi, S., Törnqvist, H., Jeyhani, V., Fiedler, P., Gizatdinova, Y., Majaranta, P., Väättäjä, H., Cardó, A. V., Leikkala, J., Tuukkanen, S., Surakka, V., Vainio, O. & Vehkaoja, A., 1 Jun 2018, In : *Sensors*. 18, 6, 1757.

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

Photo-antimicrobial efficacy of zinc complexes of porphyrin and phthalocyanine activated by inexpensive consumer LED lamp

George, L., Hiltunen, A., Santala, V. & Efimov, A., 1 Jun 2018, In : *Journal of Inorganic Biochemistry*. 183, p. 94-100 7 p.

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

Non-intersecting leaf insertion algorithm for tree structure models

Åkerblom, M., Raunonen, P., Casella, E., Disney, M. I., Danson, F. M., Gaulton, R., Schofield, L. A. & Kaasalainen, M., 6 Apr 2018, In : *Interface Focus*. 8, 2, 20170045.

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

Uncertainty in multispectral lidar signals caused by incidence angle effects

Kaasalainen, S., Åkerblom, M., Nevalainen, O., Hakala, T. & Kaasalainen, M., 6 Apr 2018, In : *Interface Focus*. 8, 2, 20170033.

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

Weighing trees with lasers: Advances, challenges and opportunities

Disney, M. I., Boni Vicari, M., Burt, A., Calders, K., Lewis, S. L., Raunonen, P. & Wilkes, P., 6 Apr 2018, In : *Interface Focus*. 8, 2, 20170048.

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

Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells

Karvinen, J., Joki, T., Ylä-Outinen, L., Koivisto, J. T., Narkilahti, S. & Kellomäki, M., 1 Mar 2018, In : *Reactive and Functional Polymers*. 124, p. 29-39 11 p.

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

An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band

Mehrang, S., Pietilä, J. & Korhonen, I., 22 Feb 2018, In : *Sensors*. 18, 2, 613.

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

Molecular mechanism for inhibition of twinfilin by phosphoinositides

Hakala, M., Kalimeri, M., Enkavi, G., Vattulainen, I. & Lappalainen, P., 1 Jan 2018, In : *Journal of Biological Chemistry*. 293, 13, p. 4818-4829 12 p.

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

A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances

Tienaho, J., Poikulainen, E., Sarjala, T., Muilu-Mäkelä, R., Santala, V. & Karp, M., 2018, In : *Photochemistry and Photobiology*. 94, 6, p. 1273-1280

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

Bioactive glass induced osteogenic differentiation of human adipose stem cells is dependent on cell attachment mechanism and mitogen-activated protein kinases

Ojansivu, M., Wang, X., Hyväri, L., Kellomäki, M., Hupa, L., Vanhatupa, S. & Miettinen, S., 2018, In : *European Cells and Materials*. 35, p. 53-71 19 p.

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

Effect of N/S ratio on anoxic thiosulfate oxidation in a fluidized bed reactor: Experimental and artificial neural network model analysis

Khanongnuch, R., Di Capua, F., Lakaniemi, A.-M., Rene, E. R. & Lens, P. N. L., 2018, In : *Process Biochemistry*. 68, p. 171-181

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

Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer

Rokade, S. S., Joshi, K. A., Mahajan, K., Patil, S., Tomar, G., Dubal, D. S., Parihar, V. S., Kitture, R., Bellare, J. R. & Ghosh, S., 2018, In : *Bioinorganic Chemistry and Applications*. 2018, 4924186.

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

Azopolymer photopatterning for directional control of angiogenesis

Fedele, C., De Gregorio, M., Netti, P. A., Cavalli, S. & Attanasio, C., 1 Nov 2017, In : *Acta Biomaterialia*. 63, p. 317-325 9 p.

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

Comparison of different coating techniques on the properties of FucoPol films

Ferreira, A. R. V., Haapanen, J., Mäkelä, J. M., Bratvold, J. E., Nilsen, O., Tuominen, M., Alves, V. D. & Coelho, I. M., 1 Oct 2017, In : *International Journal of Biological Macromolecules*. 103, p. 268-274 7 p.

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

Inhibition of A β Amyloid Growth and Toxicity by Silybins: The Crucial Role of Stereochemistry

Sciacca, M. F. M., Romanucci, V., Zarrelli, A., Monaco, I., Lolicato, F., Spinella, N., Galati, C., Grasso, G., D'Urso, L., Romeo, M., Diomedea, L., Salmons, M., Bongiorno, C., Di Fabio, G., La Rosa, C. & Milardi, D., 16 Aug 2017, In : *ACS Chemical Neuroscience*. 8, 8, p. 1767-1778 12 p.

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

sgnesR: An R package for simulating gene expression data from an underlying real gene network structure considering delay parameters

Tripathi, S., Lloyd-Price, J., Ribeiro, A., Yli-Harja, O., Dehmer, M. & Emmert-Streib, F., 4 Jul 2017, In : *BMC Bioinformatics*. 18, 1, 325.

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

Dynamics of a True Moving Bed separation process: Linear model identification and advanced process control

Nogueira, I. B. R., Ribeiro, A. M., Martins, M. A. F., Rodrigues, A. E., Koivisto, H. & Loureiro, J. M., 30 Jun 2017, In : *Journal of Chromatography A*. 1504

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

Calcium Assists Dopamine Release by Preventing Aggregation on the Inner Leaflet of Presynaptic Vesicles

Mokkila, S., Postila, P. A., Rissanen, S., Juhola, H., Vattulainen, I. & Róg, T., 21 Jun 2017, In : *ACS Chemical Neuroscience*. 8, 6, p. 1242-1250 9 p.

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

Long-chain GM1 gangliosides alter transmembrane domain registration through interdigitation

Manna, M., Javanainen, M., Martinez-Seara Monne, H., Gabius, H.-J., Rog, T. & Vattulainen, I., 1 May 2017, In : *Biochimica et Biophysica Acta: Biomembranes*. 1859, 5, p. 870-878 9 p.

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

Tunable Plasmonic Silver Nanodomains for Surface-Enhanced Raman Scattering

Kahraman, M., Ozbay, A., Yuksel, H., Solmaz, R., Demir, B. & Caglayan, H., 5 Apr 2017, (Accepted/In press) In : *Plasmonics*. p. 1-11 11 p.

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

Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and ¹⁹F Magnetic Resonance Imaging

Higashino, T., Nakatsuji, H., Fukuda, R., Okamoto, H., Imai, H., Matsuda, T., Tochio, H., Shirakawa, M., Tkachenko, N. V., Hashida, M., Murakami, T. & Imahori, H., 24 Mar 2017, In : *ChemBioChem*. 18, 10, p. 951-959 9 p.

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

Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition

Bilkova, E., Pleskot, R., Rissanen, S., Sun, S., Czogalla, A., Cwiklik, L., Róg, T., Vattulainen, I., Cremer, P. S., Jungwirth, P. & Coskun, Ü., 22 Mar 2017, In : *Journal of the American Chemical Society*. 139, 11, p. 4019-4024 6 p.

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

Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains

Milani, R., Houbenov, N., Fernandez-Palacio, F., Cavallo, G., Luzio, A., Haataja, J., Giancane, G., Saccone, M., Priimägi, A., Metrangolo, P. & Ikkala, O., 9 Mar 2017, In : *CheM*. 2, 3, p. 417-426 10 p.

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

Atomistic Molecular Dynamics Simulations of Mitochondrial DNA Polymerase γ : Novel Mechanisms of Function and Pathogenesis

Euro, L., Haapanen, O., Róg, T., Vattulainen, I., Suomalainen, A. & Sharma, V., 7 Mar 2017, In : *Biochemistry*. 56, 9, p. 1227-1238 12 p.

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

Polarization resolved photoluminescence in GaAs_{1-x}Bi_x/GaAs quantum wells

Balanta, M. A. G., Orsi Gordo, V., Carvalho, A. R. H., Püustinen, J., Alghamdi, H. M., Henini, M., Galeti, H. V. A., Guina, M. & Galvão Gobato, Y., Feb 2017, In : *Journal of Luminescence*. 182, p. 49-52 4 p.

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

GSAR: Bioconductor package for Gene Set analysis in R

Rahmatallah, Y., Zybailov, B., Emmert-Streib, F. & Glazko, G., 24 Jan 2017, In : *BMC Bioinformatics*. 18, 1, 61.

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

Dynamics and energetics of the mammalian phosphatidylinositol transfer protein phospholipid exchange cycle

Grabon, A., Orłowski, A., Tripathi, A., Vuorio, J., Javanainen, M., Róg, T., Lönnfors, M., McDermott, M. I., Siebert, G., Somerharju, P., Vattulainen, I. & Bankaitis, V. A., 2017, In : *Journal of Biological Chemistry*. 292, 35, p. 14438-14455 18 p.

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

Synthesis, Structural Characterization, Hirshfeld Surface and Antioxidant Activity Analysis of a Novel Organic Cation Antimonate Complex

Lahbib, I., Valkonen, A., Rzaigui, M. & Smirani, W., 2017, In : *Journal of Cluster Science*. 28, 4, p. 2239-2252 14 p.

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

SamExploreR: Exploring reproducibility and robustness of RNA-seq results based on SAM files

Stupnikov, A., Tripathi, S., De Matos Simoes, R., McArt, D., Salto-Tellez, M., Glazko, G., Dehmer, M. & Emmert-Streib, F., 1 Nov 2016, In : *Bioinformatics*. 32, 21, p. 3345-3347 3 p.

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

Effects of σ factor competition are promoter initiation kinetics dependent

Kandavalli, V. K., Tran, H. & Ribeiro, A. S., 1 Oct 2016, In : *Biochimica et Biophysica Acta: Gene Regulatory Mechanisms*. 1859, 10, p. 1281-1288 8 p.

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

Identifying involvement of Lys251/Asp252 pair in electron transfer and associated proton transfer at the quinone reduction site of Rhodobacter capsulatus cytochrome bc₁

Kuleta, P., Sarewicz, M., Postila, P., Róg, T. & Osyczka, A., 1 Oct 2016, In : Biochimica et Biophysica Acta: Bioenergetics. 1857, 10, p. 1661-1668 8 p.

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

Lipid membranes: Theory and simulations bridged to experiments

Vattulainen, I. & Róg, T., 1 Oct 2016, In : Biochimica et Biophysica Acta: Biomembranes. 1858, 10, p. 2251-2253 3 p.

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

Efficient preparation and analysis of membrane and membrane protein systems

Javanainen, M. & Martinez-Seara, H., Oct 2016, In : Biochimica et Biophysica Acta: Biomembranes. 1858, 10, p. 2468-2482

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

Functionalized lipids and surfactants for specific applications

Kepczynski, M. & Róg, T., Oct 2016, In : Biochimica et Biophysica Acta: Biomembranes. 1858, 10, p. 2362-2379

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

Distribution and dynamics of quinones in the lipid bilayer mimicking the inner membrane of mitochondria

Kaurola, P., Sharma, V., Vonk, A., Vattulainen, I. & Róg, T., 1 Sep 2016, In : Biochimica et Biophysica Acta: Biomembranes. 1858, 9, p. 2116-2122 7 p.

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

The role of the K-channel and the active-site tyrosine in the catalytic mechanism of cytochrome c oxidase

Sharma, V. & Wikström, M., Aug 2016, In : Biochimica et Biophysica Acta: Bioenergetics. 1857, 8, p. 1111-1115

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

Robust statistical approaches for RSS-based floor detection in indoor localization

Razavi, A., Valkama, M. & Lohan, E. S., 1 Jun 2016, In : Sensors. 16, 6, 793.

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

Characterizing rate limiting steps in transcription from RNA production times in live cells

Häkkinen, A. & Ribeiro, A. S., 1 May 2016, In : Bioinformatics. 32, 9, p. 1346-1352 7 p.

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

Human Adipose Stem Cells Differentiated on Braided Polylactide Scaffolds is a Potential Approach for Tendon Tissue Engineering

Vuornos, K., Björninen, M., Talvitie, E., Paakinaho, K., Kellomäki, M., Huhtala, H., Miettinen, S., Seppänen-Kajjansinkko, R. & Haimi, S., 1 Mar 2016, In : Tissue Engineering Part A. 22, 5-6, p. 513-523 11 p.

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

Cholesterol oxidation products and their biological importance

Kulig, W., Cwiklik, L., Jurkiewicz, P., Rog, T. & Vattulainen, I., 2016, In : Chemistry and Physics of Lipids. 199, p. 144-160 17 p.

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

Morphological Differentiation Towards Neuronal Phenotype of SH-SY5Y Neuroblastoma Cells by Estradiol, Retinoic Acid and Cholesterol

Teppola, H., Sarkanen, J. R., Jalonen, T. O. & Linne, M-L., 2016, In : Neurochemical Research. 41, 4, p. 731-747

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

Non-Brownian diffusion in lipid membranes: Experiments and simulations

Metzler, R., Jeon, J. H. & Cherstvy, A. G., 2016, In : Biochimica et Biophysica Acta: Biomembranes. 215, p. 173-185

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

Role of charged lipids in membrane structures: Insight given by simulations

Pöyry, S. & Vattulainen, I., 2016, In : *Biochimica et Biophysica Acta: Biomembranes*. p. 2322–2333 12 p.

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

The biophysical properties of ethanolamine plasmalogens revealed by atomistic molecular dynamics simulations

Rog, T. & Koivuniemi, A., 2016, In : *Biochimica et Biophysica Acta: Biomembranes*. 1858, 1, p. 97-103 7 p.

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

Gene expression analysis upon lncRNA DDSR1 knockdown in human fibroblasts

Jia, L., Sun, Z., Wu, X., Misteli, T. & Sharma, V., 1 Dec 2015, In : *Genomics Data*. 6, p. 277-279 3 p.

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

Tuning the Plasmonic Extinction Resonances of Hexagonal Arrays of Ag Nanoparticles

Ravi, A., Luthra, A., Teixeira, F. L., Berger, P. R. & Coe, J. V., 1 Dec 2015, In : *Plasmonics*. 10, 6, p. 1505-1512 8 p.

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

A BRCA1-interacting lncRNA regulates homologous recombination

Sharma, V., Khurana, S., Kubben, N., Abdelmohsen, K., Oberdoerffer, P., Gorospe, M. & Misteli, T., 1 Nov 2015, In : *EMBO REPORTS*. 16, 11, p. 1520-1534 15 p.

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

Submolecular Plasticization Induced by Photons in Azobenzene Materials

Vapaavuori, J., Laventure, A., Bazuin, C. G., Lebel, O. & Pellerin, C., 28 Oct 2015, In : *Journal of the American Chemical Society*. 137, 42, p. 13510-13517 8 p.

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

Cancer incidence and mortality in patients treated either with RAI or thyroidectomy for hyperthyroidism

Ryödi, E., Metso, S., Jaatinen, P., Huhtala, H., Saaristo, R., Välimäki, M. & Auvinen, A., 1 Oct 2015, In : *Journal of Clinical Endocrinology and Metabolism*. 100, 10, p. 3710-3717 8 p.

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

Surface Modified Biodegradable Electrospun Membranes as a Carrier for Human Embryonic Stem Cell-Derived Retinal Pigment Epithelial Cells

Sorkio, A., Porter, P. J., Juuti-Uusitalo, K., Meenan, B. J., Skottman, H. & Burke, G. A., 1 Sep 2015, In : *Tissue Engineering Part A*. 21, 17-18, p. 2301-2314 14 p.

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

Bioactive glass ions as strong enhancers of osteogenic differentiation in human adipose stem cells

Ojansivu, M., Vanhatupa, S., Björkvik, L., Häkkänen, H., Kellomäki, M., Autio, R., Ihalainen, J. A., Hupa, L. & Miettinen, S., 15 Jul 2015, In : *Acta Biomaterialia*. 21, p. 190-203 14 p.

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

A robust AMMI model for the analysis of genotype-by-environment data

Rodrigues, P. C., Monteiro, A. & Lourenço, V. M., 1 Jul 2015, In : *Bioinformatics*. 32, 1, p. 58-66 9 p.

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

Cholesterol under oxidative stress: How lipid membranes sense oxidation as cholesterol is being replaced by oxysterols

Kulig, W., Olżyńska, A., Jurkiewicz, P., Kantola, A. M., Komulainen, S., Manna, M., Pourmousa, M., Vazdar, M., Cwiklik, L., Rog, T., Khelashvili, G., Harries, D., Telkki, V. V., Hof, M., Vattulainen, I. & Jungwirth, P., 1 Jul 2015, In : *Free Radical Biology and Medicine*. 84, p. 30-41 12 p.

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

Apolipoprotein A-I mimetic peptide 4F blocks sphingomyelinase-induced LDL aggregation

Nguyen, S. D., Javanainen, M., Rissanen, S., Zhao, H., Huusko, J., Kivelä, A. M., Ylä-Herttuala, S., Navab, M., Fogelman, A. M., Vattulainen, I., Kovanen, P. T. & Öörni, K., 1 Jun 2015, In : *Journal of Lipid Research*. 56, 6, p. 1206-1221 16 p.

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

Using shRNA experiments to validate gene regulatory networks

Olsen, C., Fleming, K., Prendergast, N., Rubio, R., Emmert-Streib, F., Bontempi, G., Quackenbush, J. & Haibe-Kains, B., 1 Jun 2015, In : *Genomics Data*. 4, p. 123-126 4 p.

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

Role of subunit III and its lipids in the molecular mechanism of cytochrome c oxidase

Sharma, V., Ala-Vannesuoma, P., Vattulainen, I., Wikström, M. & Róg, T., 17 Apr 2015, In : *Biochimica et Biophysica Acta: Bioenergetics*. 1847, 8, p. 690-697 8 p.

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

Multi-stable dynamics of the non-adiabatic repressilator

Potapov, I., Zhurov, B. & Volkov, E., 6 Mar 2015, In : *Journal of the Royal Society. Interface*. 12, 104, 20141315.

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

Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations

Schroeder, C. A., Pluharová, E., Seidel, R., Schroeder, W. P., Faubel, M., Slavíček, P., Winter, B., Jungwirth, P. & Bradforth, S. E., 14 Jan 2015, In : *Journal of the American Chemical Society*. 137, 1, p. 201-209 9 p.

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

Estimation of GFP-tagged RNA numbers from temporal fluorescence intensity data

Häkkinen, A. & Ribeiro, A. S., 1 Jan 2015, In : *Bioinformatics*. 31, 1, p. 69-75 7 p.

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

Efficient preparation of shuffled DNA libraries through recombination (Gateway) cloning

Lehtonen, S. I., Taskinen, B., Ojala, E., Kukkurainen, S., Rahikainen, R., Riihimäki, T. A., Laitinen, O. H., Kulomaa, M. S. & Hytönen, V. P., 2015, In : *Protein Engineering Design and Selection*. 28, 1, p. 23-28 6 p.

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

Experimental determination and computational interpretation of biophysical properties of lipid bilayers enriched by cholesteryl hemisuccinate

Kulig, W., Jurkiewicz, P., Olżyńska, A., Tynkkynen, J., Javanainen, M., Manna, M., Rog, T., Hof, M., Vattulainen, I. & Jungwirth, P., 2015, In : *Biochimica et Biophysica Acta: Biomembranes*. 1848, 2, p. 422-432 11 p.

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

Interaction with serum albumin as a factor of the photodynamic efficacy of novel bacteriopurpurinimide derivatives

Akimova, A. V., Rychkov, G. N., Grin, M. A., Filippova, N. A., Golovina, G. V., Durandin, N. A., Vinogradov, A. M., Kokrashvili, T. A., Mironov, A. F., Shtil, A. A. & Kuzmin, V. A., 2015, In : *ACTA NATURAE*. 7, 1, p. 109-116 8 p.

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

Comparative evaluation of gene set analysis approaches for RNA-Seq data

Rahmatallah, Y., Emmert-Streib, F. & Glazko, G., 5 Dec 2014, In : *BMC Bioinformatics*. 15, 1, 397.

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

Connection between absorption properties and conformational changes in *Deinococcus radiodurans* phytochrome

Takala, H., Lehtivuori, H., Hammarén, H., Hytönen, V. P. & Ihalainen, J. A., 18 Nov 2014, In : *Biochemistry*. 53, 45, p. 7076-7085 10 p.

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

Global analysis of human nonreceptor tyrosine kinase specificity using high-density peptide microarrays

Deng, Y., Alicea-Velázquez, N. L., Bannwarth, L., Lehtonen, S. I., Boggon, T. J., Cheng, H. C., Hytönen, V. P. & Turk, B. E., 3 Oct 2014, In : *Journal of Proteome Research*. 13, 10, p. 4339-4346 8 p.

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

Calcium transients closely reflect prolonged action potentials in iPSC models of inherited cardiac arrhythmia

Spencer, C. I., Baba, S., Nakamura, K., Hua, E. A., Sears, M. A. F., Fu, C. C., Zhang, J., Balijepalli, S., Tomoda, K., Hayashi, Y., Lizarraga, P., Wojciak, J., Scheinman, M. M., Aalto-Setälä, K., Makielski, J. C., January, C. T., Healy, K. E., Kamp, T. J., Yamanaka, S. & Conklin, B. R., 12 Aug 2014, In : Stem Cell Reports. 3, 2, p. 269-281 13 p.

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

Blood microRNA profile associates with the levels of serum lipids and metabolites associated with glucose metabolism and insulin resistance and pinpoints pathways underlying metabolic syndrome. The cardiovascular risk in Young Finns Study.

Raitoharju, E., Seppälä, I., Oksala, N., Lyytikäinen, L. P., Raitakari, O., Viikari, J., Ala-Korpela, M., Soininen, P., Kangas, A. J., Waldenberger, M., Klopp, N., Illig, T., Leiviskä, J., Loo, B. M., Hutri-Kähönen, N., Kähönen, M., Laaksonen, R. & Lehtimäki, T., 25 Jun 2014, In : Molecular and Cellular Endocrinology. 391, 1-2, p. 41-49 9 p.

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

Light-fuelled transport of large dendrimers and proteins

Koskela, J. E., Liljeström, V., Lim, J., Simanek, E. E., Ras, R. H. A., Priimagi, A. & Kostianen, M. A., 14 May 2014, In : Journal of the American Chemical Society. 136, 19, p. 6850-6853 4 p.

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

AROS has a context-dependent effect on SIRT1

Kokkola, T., Suuronen, T., Molnár, F., Määttä, J., Salminen, A., Jarho, E. M. & Lahtela-Kakkonen, M., 2 May 2014, In : FEBS Letters. 588, 9, p. 1523-1528 6 p.

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

NetBioV: An R package for visualizing large network data in biology and medicine

Tripathi, S., Dehmer, M. & Emmert-Streib, F., 2 Apr 2014, In : Bioinformatics. 30, 19, p. 2834-2836 3 p.

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

Small-molecule induction promotes corneal epithelial cell differentiation from human induced pluripotent stem cells

Mikhailova, A., Ilmarinen, T., Uusitalo, H. & Skottman, H., 11 Feb 2014, In : Stem Cell Reports. 2, 2, p. 219-231 13 p.

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

Gene Sets Net Correlations Analysis (GSNCA): A multivariate differential coexpression test for gene sets

Rahmatallah, Y., Emmert-Streib, F. & Glazko, G., 1 Feb 2014, In : Bioinformatics. 30, 3, p. 360-368 9 p.

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

Structure and barrier properties of human embryonic stem cell-derived retinal pigment epithelial cells are affected by extracellular matrix protein coating

Sorkio, A., Hongisto, H., Kaarniranta, K., Uusitalo, H., Juuti-Uusitalo, K. & Skottman, H., 1 Feb 2014, In : Tissue Engineering Part A. 20, 3-4, p. 622-634 13 p.

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

Antioxidant supplementation reduces genomic aberrations in human induced pluripotent stem cells

Ji, J., Sharma, V., Qi, S., Guarch, M. E., Zhao, P., Luo, Z., Fan, W., Wang, Y., Mbabaali, F., Neculai, D., Esteban, M. A., McPherson, J. D. & Batada, N. N., 14 Jan 2014, In : Stem Cell Reports. 2, 1, p. 44-51 8 p.

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

Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress

Oksala, N. K. J., Ekmekçi, F. G., Özsoy, E., Kirankaya, Ş., Kokkola, T., Emecen, G., Lappalainen, J., Kaarniranta, K. & Atalay, M., 1 Jan 2014, In : REDOX BIOLOGY. 3, p. 25-28 4 p.

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

Shiga-like toxin binds with high avidity to multivalent O-linked blood group P1 determinants on mucin-type fusion proteins

Maria Cherian, R., Gaunitz, S., Nilsson, A., Liu, J., Karlsson, N. G. & Holgersson, J., Jan 2014, In : GLYCOBIOLOGY. 24, 1, p. 26-38 13 p.

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

Electrophoretic mobilities of neutral analytes and electroosmotic flow markers in aqueous solutions of Hofmeister salts

Křížek, T., Kubíčková, A., Hladílková, J., Coufal, P., Heyda, J. & Jungwirth, P., 2014, In : ELECTROPHORESIS. 35, 5, p. 617-624 8 p.

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

Functional and genetic analysis of the colon cancer network.

Emmert-Streib, F., de Matos Simoes, R., Glazko, G., McDade, S., Haibe-Kains, B., Holzinger, A., Dehmer, M. & Campbell, F., 2014, In : BMC Bioinformatics. 15, Suppl 6, S6.

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

Kinetics of bioconjugate nanoparticle label binding in a sandwich-type immunoassay

Näreoja, T., Ebner, A., Gruber, H. J., Taskinen, B., Kienberger, F., Hänninen, P. E., Hytönen, V. P., Hinterdorfer, P. & Härmä, H., 2014, In : Analytical and Bioanalytical Chemistry. 406, 2, p. 493-503 11 p.

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

Novel derivatives of bacteriochlorophyll a: Complex formation with albumin and the mechanism of tumor cell photodamage

Akimova, A. V., Grin, M. A., Golovina, G. V., Kokrashvili, T. A., Vinogradov, A. M., Mironov, A. F., Rychkov, G. N., Shtil, A. A., Kuzmin, V. A. & Durandin, N. A., 2014, In : DOKLADY BIOCHEMISTRY AND BIOPHYSICS. 454, 1, p. 17-20 4 p.

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

Recurrent thyroid cancers have more peritumoural lymphatic vasculature than nonrecurrent thyroid cancers

Hakala, T., Sand, J., Kellokumpu-Lehtinen, P. L., Huhtala, H., Leinonen, R. & Kholová, I., 2014, In : European Journal of Clinical Investigation. 44, 9, p. 825-832 8 p.

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

Report from the 2nd Summer School in Computational Biology organized by the Queen's University of Belfast

Emmert-Streib, F., Zhang, S. D. & Hamilton, P., 2014, In : Genomics Data. 2, p. 37-39 3 p.

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

Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS

Häkkinen, M. R., Roine, A., Auriola, S., Tuokko, A., Veskimäe, E., Keinänen, T. A., Lehtimäki, T., Oksala, N. & Vepsäläinen, J., 15 Dec 2013, In : JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. 941, p. 81-89 9 p.

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

Mechanisms of acceleration and retardation of water dynamics by ions

Stirnemann, G., Wernersson, E., Jungwirth, P. & Laage, D., 14 Aug 2013, In : Journal of the American Chemical Society. 135, 32, p. 11824-11831 8 p.

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

Identification, prioritization, and evaluation of glycoproteins for aggressive prostate cancer using quantitative glycoproteomics and antibody-based assays on tissue specimens

Chen, J., Xi, J., Tian, Y., Bova, G. S. & Zhang, H., Aug 2013, In : Proteomics. 13, 15, p. 2268-2277 10 p.

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

Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering

Diban, N., Haimi, S., Bolhuis-Versteeg, L., Teixeira, S., Miettinen, S., Poot, A., Grijpma, D. & Stamatialis, D., 1 Jul 2013, In : Journal of Membrane Science. 438, p. 29-37 9 p.

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

The highly dynamic oligomeric structure of bradavidin II is unique among avidin proteins

Leppiniemi, J., Meir, A., Kahkonen, N., Kukkurainen, S., Maatta, J. A., Ojanen, M., Janis, J., Kulomaa, M. S., Livnah, O. & Hytonen, V. P., Jul 2013, In : PROTEIN SCIENCE. 22, 7, p. 980-994 15 p.

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

Non-coding RNAs in DNA damage and repair

Sharma, V. & Misteli, T., 27 Jun 2013, In : FEBS Letters. 587, 13, p. 1832-1839 8 p.

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

Resonance assignments of the 56 kDa chimeric avidin in the biotin-bound and free forms

Tossavainen, H., Helppolainen, S. H., Määttä, J. A. E., Pihlajamaa, T., Hytönen, V. P., Kulomaa, M. S. & Permi, P., Apr 2013, In : BIOMOLECULAR NMR ASSIGNMENTS. 7, 1, p. 35-38 4 p.

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

How the amyloid- β peptide and membranes affect each other: An extensive simulation study

Poojari, C., Kukol, A. & Strodel, B., Feb 2013, In : Biochimica et Biophysica Acta: Biomembranes. 1828, 2, p. 327-339 13 p.

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

Visualizing functional motions of membrane transporters with molecular dynamics simulations

Shaikh, S. A., Li, J., Enkavi, G., Wen, P. C., Huang, Z. & Tajkhorshid, E., 29 Jan 2013, In : Biochemistry. 52, 4, p. 569-587 19 p.

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

Hollow fibers of poly(lactide-co-glycolide) and poly(ϵ -caprolactone) blends for vascular tissue engineering applications

Diban, N., Haimi, S., Bolhuis-Versteeg, L., Teixeira, S., Miettinen, S., Poot, A., Grijpma, D. & Stamatialis, D., 2013, In : Acta Biomaterialia. 9, 5, p. 6450-6458 9 p.

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

Molecular mechanism of T-cell protein tyrosine phosphatase (TCPTP) activation by mitoxantrone

Ylilauri, M., Mattila, E., Nurminen, E. M., Käpylä, J., Niinivehmas, S. P., Määttä, J. A., Pentikäinen, U., Ivaska, J. & Pentikäinen, O. T., 2013, In : Biochimica et biophysica acta: proteins and proteomics. 1834, 10, p. 1988-1997 10 p.

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

Gene set analysis for self-contained tests: Complex null and specific alternative hypotheses

Rahmatallah, Y., Emmert-Streib, F. & Glazko, G., Dec 2012, In : Bioinformatics. 28, 23, p. 3073-3080 8 p.

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

Biophysics of lipid bilayers containing oxidatively modified phospholipids: Insights from fluorescence and EPR experiments and from MD simulations

Jurkiewicz, P., Olżyńska, A., Cwiklik, L., Conte, E., Jungwirth, P., Megli, F. M. & Hof, M., Oct 2012, In : Biochimica et Biophysica Acta: Biomembranes. 1818, 10, p. 2388-2402 15 p.

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

Endocrine prevention and treatment of prostate cancer

Tammela, T. L. J., 5 Sep 2012, In : Molecular and Cellular Endocrinology. 360, 1-2, p. 59-67 9 p.

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

Molecular mechanisms of ion-specific effects on proteins

Rembert, K. B., Paterová, J., Heyda, J., Hilty, C., Jungwirth, P. & Cremer, P. S., 20 Jun 2012, In : Journal of the American Chemical Society. 134, 24, p. 10039-10046 8 p.

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

Neuroprotective effect of RO-20-1724-a phosphodiesterase4 inhibitor against intracerebroventricular streptozotocin induced cognitive deficit and oxidative stress in rats

Sharma, V., Bala, A., Deshmukh, R., Bedi, K. L. & Sharma, P. L., Apr 2012, In : PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR. 101, 2, p. 239-245 7 p.

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

Histone H2B ubiquitin ligases RNF20 and RNF40 in androgen signaling and prostate cancer cell growth

Jääskeläinen, T., Makkonen, H., Visakorpi, T., Kim, J., Roeder, R. G. & Palvimo, J. J., 5 Mar 2012, In : *Molecular and Cellular Endocrinology*. 350, 1, p. 87-98 12 p.

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

Counterion condensation in short cationic peptides: Limiting mobilities beyond the Onsager-Fuoss theory

Wernersson, E., Heyda, J., Kubíčková, A., Křížek, T., Coufal, P. & Jungwirth, P., Mar 2012, In : *ELECTROPHORESIS*. 33, 6, p. 981-989 9 p.

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

Production of l-xylose from l-xylulose using Escherichia coli l-fucose isomerase

Usvalampi, A., Turunen, O., Valjakka, J., Pastinen, O., Leisola, M. & Nyyssölä, A., 5 Jan 2012, In : *ENZYME AND MICROBIAL TECHNOLOGY*. 50, 1, p. 71-76 6 p.

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

Human adipose tissue extract induces angiogenesis and adipogenesis in vitro

Sarkanen, J. R., Kaila, V., Mannerström, B., Rätty, S., Kuokkanen, H., Miettinen, S. & Ylikomi, T., 1 Jan 2012, In : *Tissue Engineering Part A*. 18, 1-2, p. 17-25 9 p.

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

Lipid hydration and mobility: An interplay between fluorescence solvent relaxation experiments and molecular dynamics simulations

Jurkiewicz, P., Cwiklik, L., Jungwirth, P. & Hof, M., Jan 2012, In : *Biochimie*. 94, 1, p. 26-32 7 p.

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

Osteogenic medium is superior to growth factors in differentiation of human adipose stem cells towards boneforming cells in 3D culture

Tirkkonen, L., Haimi, S., Huttunen, S., Wolff, J., Pirhonen, E., Sándor, G. K. & Miettinen, S., 2012, In : *European Cells and Materials*. 25, p. 144-158 15 p.

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

Structure-function analysis indicates that sumoylation modulates DNA-binding activity of STAT1

Grönholm, J., Vanhatupa, S., Ungureanu, D., Väliaho, J., Laitinen, T., Valjakka, J. & Silvennoinen, O., 2012, In : *BMC BIOCHEMISTRY*. 13, 1, 20.

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

Structural Measures for Network Biology Using QuACN

Mueller, L. A. J., Kugler, K. G., Graber, A., Emmert-Streib, F. & Dehmer, M., 24 Dec 2011, In : *BMC Bioinformatics*. 12, 1, 492.

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

Modification of olivomycin A at the side chain of the aglycon yields the derivative with perspective antitumor characteristics

Tevyashova, A. N., Shtil, A. A., Olsufyeva, E. N., Luzikov, Y. N., Reznikova, M. I., Dezhenkova, L. G., Isakova, E. B., Bukhman, V. M., Durandin, N. A., Vinogradov, A. M., Kuzmin, V. A. & Preobrazhenskaya, M. N., 15 Dec 2011, In : *BIOORGANIC AND MEDICINAL CHEMISTRY*. 19, 24, p. 7387-7393 7 p.

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

Laser-induced primary and secondary hemostasis dynamics and mechanisms in relation to selective photothermolysis of port wine stains

Heger, M., Salles, I. I., Bezemer, R., Cloos, M. A., Mordon, S. R., Bégu, S., Deckmyn, H. & Beek, J. F., Sep 2011, In : *JOURNAL OF DERMATOLOGICAL SCIENCE*. 63, 3, p. 139-147 9 p.

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

Stabilization of the peroxy intermediate in the oxygen splitting reaction of cytochrome cbb₃

Sharma, V., Wikström, M. & Kaila, V. R. I., Jul 2011, In : *Biochimica et Biophysica Acta: Bioenergetics*. 1807, 7, p. 813-818 6 p.

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

BACOM: In silico detection of genomic deletion types and correction of normal cell contamination in copy number data
Yu, G., Zhang, B., Bova, G. S., Xu, J., Shih, I. M. & Wang, Y., Jun 2011, In : *Bioinformatics*. 27, 11, p. 1473-1480 8 p., btr183.

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

Trans-interaction of nephrin and Neph1/Neph3 induces cell adhesion that associates with decreased tyrosine phosphorylation of nephrin

Heikkilä, E., Ristola, M., Havana, M., Jones, N., Holthöfer, H. & Lehtonen, S., 1 May 2011, In : *BIOCHEMICAL JOURNAL*. 435, 3, p. 619-628 10 p.

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

Detection of DNA hybridisation in a diluted serum matrix by surface plasmon resonance and film bulk acoustic resonators

Auer, S., Nirschl, M., Schreiter, M. & Vikholm-Lundin, I., May 2011, In : *Analytical and Bioanalytical Chemistry*. 400, 5, p. 1387-1396 10 p.

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

The identity of the transient proton loading site of the proton-pumping mechanism of cytochrome c oxidase

Kaila, V. R. I., Sharma, V. & Wikström, M., Jan 2011, In : *Biochimica et Biophysica Acta: Bioenergetics*. 1807, 1, p. 80-84 5 p.

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

Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation

Dantelle, G., Slablab, A., Rondin, L., Lainé, F., Carrel, F., Bergonzo, P., Perruchas, S., Gacoin, T., Treussart, F. & Roch, J. F., Sep 2010, In : *Journal of Luminescence*. 130, 9, p. 1655-1658 4 p.

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

Revealing differences in gene network inference algorithms on the network level by ensemble methods

Altay, G. & Emmert-Streib, F., 25 May 2010, In : *Bioinformatics*. 26, 14, p. 1738-1744 7 p., btq259.

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

Surface science analysis and surface modification methods for biomaterials research

Kanninen, L., Jokinen, N., Lahtonen, K., Jussila, P., Ali-Löytty, H., Hirsimäki, M., Leppiniemi, J., Hytönen, V., Kulomaa, M., Ahola, N., Paakinaho, K., Kellomäki, M. & Valden, M., 1 Jan 2010, In : *European Cells and Materials*. 20, SUPPL. 3, p. 133 1 p.

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

Unite and conquer: Univariate and multivariate approaches for finding differentially expressed gene sets

Glazko, G. V. & Emmert-Streib, F., Sep 2009, In : *Bioinformatics*. 25, 18, p. 2348-2354 7 p.

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

Structural information content of networks: Graph entropy based on local vertex functionals

Dehmer, M. & Emmert-Streib, F., Apr 2008, In : *Computational Biology and Chemistry*. 32, 2, p. 131-138 8 p.

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

Responses of methane oxidation to temperature and water content in cover soil of a boreal landfill

Einola, J. K. M., Kettunen, R. H. & Rintala, J. A., May 2007, In : *Soil Biology and Biochemistry*. 39, 5, p. 1156-1164 9 p.

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

Modeling of anaerobic degradation of solid slaughterhouse waste: Inhibition effects of long-chain fatty acids or ammonia

Lokshina, L. Y., Vavilin, V. A., Salminen, E. & Rintala, J., Apr 2003, In : *Applied Biochemistry and Biotechnology*. 109, 1-3, p. 15-32 18 p.

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

Preparation of 5-substituted 2-carboxyindoles on solid support

Tois, J., Franzén, R., Aitio, O., Huikko, K. & Taskinen, J., 1 Apr 2000, In : Tetrahedron Letters. 41, 14, p. 2443-2446 4 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Utilization of Grignard reagents in solid-phase synthesis: A review of the literature

Franzén, R. G., 28 Jan 2000, In : Tetrahedron. 56, 5, p. 685-691 7 p.
Research output: Contribution to journal › Review Article › Scientific › peer-review

Solution structure of nodularin: An inhibitor of serine/threonine- specific protein phosphatases

Annala, A., Lehtimäki, J., Mattila, K., Eriksson, J. E., Sivonen, K., Rantala, T. T. & Drakenberg, T., 1996, In : Journal of Biological Chemistry. 271, 28, p. 16695-16702 8 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Synthesis of chlorinated 5-hydroxy 4-methyl-2(5H)-furanones and mucochloric acid

Franzén, R. & Kronberg, L., 29 May 1995, In : Tetrahedron Letters. 36, 22, p. 3905-3908 4 p.
Research output: Contribution to journal › Article › Scientific › peer-review