

**Assessment of PIV performance in validating CFD models from nasal cavity CBCT scans**

Ormiskangas, J., Valtonen, O., Kivekäs, I., Dean, M., Poe, D., Järnstedt, J., Lekkala, J., Harju, T., Saarenrinne, P. & Rautiainen, M., 1 Nov 2020, In : *Respiratory Physiology and Neurobiology*. 282, 9 p., 103508.

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

**Simulation of the Effects of Extracellular Calcium Changes Leads to a Novel Computational Model of Human Ventricular Action Potential With a Revised Calcium Handling**

Bartolucci, C., Passini, E., Hyttinen, J., Paci, M. & Severi, S., 15 Apr 2020, In : *Frontiers in Physiology*. 11, 20 p., 314.

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

**Tidal breathing flow profiles during sleep in wheezing children measured by impedance pneumography**

Gracia-Tabuenca, J., Seppä, V-P., Jauhiainen, M., Paasilta, M., Viik, J. & Karjalainen, J., 2020, In : *Respiratory Physiology and Neurobiology*. 271, 103312.

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

**Membrane-Dependent Binding and Entry Mechanism of Dopamine into Its Receptor**

Lolicato, F., Juhola, H., Zak, A., Postila, P. A., Saukko, A., Rissanen, S., Enkavi, G., Vattulainen, I., Kepczynski, M. & Róg, T., 2020, In : *ACS Chemical Neuroscience*. 11, 13, p. 1914–1924 11 p.

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

**Sodium channels enable fast electrical signaling and regulate phagocytosis in the retinal pigment epithelium**

Johansson, J. K., Karema-Jokinen, V. I., Hakanen, S., Jylhä, A., Uusitalo, H., Vihinen-Ranta, M., Skottman, H., Ihalainen, T. O. & Nymark, S., 15 Aug 2019, In : *BMC BIOLOGY*. 17, 1, 63.

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

**Metabolic syndrome is associated with decreased heart rate variability in a sex-dependent manner: a comparison between 252 men and 249 women**

Kangas, P., Tikkakoski, A., Uitto, M., Viik, J., Bouquin, H., Niemelä, O., Mustonen, J. & Pörsti, I., Mar 2019, In : *Clinical Physiology and Functional Imaging*. 39, 2, p. 160-167 8 p.

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

**Normalization of force to muscle cross-sectional area: A helpful attempt to reduce data scattering in contractility studies?**

Pecha, S., Koivumäki, J., Geelhoed, B., Kempe, R., Berk, E., Engel, A., Reichensperner, H., Eschenhagen, T., Ravens, U., Kaumann, A. & Christ, T., 1 Dec 2018, In : *Acta Physiologica*. 224, 4, 4 p., e13202.

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

**Quantifying branch architecture of tropical trees using terrestrial LiDAR and 3D modelling**

Lau, A., Bentley, L. P., Martius, C., Shenkin, A., Bartholomeus, H., Raunonen, P., Malhi, Y., Jackson, T. & Herold, M., Oct 2018, In : *Trees - Structure and Function*. 32, 5, p. 1219-1231 13 p.

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

**Automatic optimization of an in silico model of human iPSC derived cardiomyocytes recapitulating calcium handling abnormalities**

Paci, M., Pölonen, R-P., Cori, D., Penttinen, K., Aalto-Setälä, K., Severi, S. & Hyttinen, J., 26 Jun 2018, In : *Frontiers in Physiology*. 9, JUN, 709.

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

**Monitoring of heart rate and inter-beat intervals with wrist plethysmography in patients with atrial fibrillation**

Harju, J., Tarniceriu, A., Parak, J., Vehkaoja, A., Yli-Hankala, A. & Korhonen, I., 26 Jun 2018, In : *Physiological Measurement*. 39, 6, 065007.

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

**Cholesterol Protects the Oxidized Lipid Bilayer from Water Injury: An All-Atom Molecular Dynamics Study**

Owen, M. C., Kulig, W., Rog, T., Vattulainen, I. & Strodel, B., Jun 2018, In : *Journal of Membrane Biology*. 251, 3, p. 521-534 14 p.

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

#### **Differential processing in modality-specific Mauthner cell dendrites**

Medan, V., Mäki-Marttunen, T., Sztarker, J. & Preuss, T., 2018, In : *Journal of Physiology*. 596, 4, p. 667-689

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

#### **Evaluation of optogenetic electrophysiology tools in human stem cell-derived cardiomyocytes**

Björk, S., Ojala, E. A., Nordström, T., Ahola, A., Liljeström, M., Hyttinen, J., Kankuri, E. & Mervaala, E., 2 Nov 2017, In : *Frontiers in Physiology*. 8, NOV, 884.

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

#### **Inhibition of A $\beta$ 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., Diomede, L., Salmona, 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

#### **How management intensity and neighborhood composition affect the structure of beech (*Fagus sylvatica* L.) trees**

Juchheim, J., Annighöfer, P., Ammer, C., Calders, K., Raunonen, P. & Seidel, D., 14 Jul 2017, In : *TREES-STRUCTURE AND FUNCTION*. 31, 5, p. 1723–1735 13 p.

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

#### **Phase partitioning of GM1 and its bodipy-labeled analog determine their different binding to Cholera Toxin**

Rissanen, S., Grzybek, M., Orłowski, A., Róg, T., Cramariuc, O., Levental, I., Eggeling, C., Sezgin, E. & Vattulainen, I., 9 May 2017, In : *Frontiers in Physiology*. 8, MAY, 252.

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

#### **The Integrin Receptor in Biologically Relevant Bilayers: Insights from Molecular Dynamics Simulations**

Kalli, A. C., Rog, T., Vattulainen, I., Campbell, I. D. & Sansom, M. S. P., 2017, In : *Journal of Membrane Biology*. 250, p. 337-351 15 p.

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

#### **Oxysterols Versus Cholesterol in Model Neuronal Membrane. I. The Case of 7-Ketocholesterol. The Langmuir Monolayer Study**

Wnętrzak, A., Makyła-Juzak, K., Filiczowska, A., Kulig, W. & Dynarowicz-Łątka, P., 2017, In : *Journal of Membrane Biology*. 250, 5, p. 553–564

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

#### **Current densities and total contact currents during forest clearing tasks under 400kV power lines**

Korpinen, L., Kuisti, H. & Elovaara, J., 1 Sep 2016, In : *Bioelectromagnetics*. 37, 6, p. 423-428

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

#### **A new algorithm to improve assessment of cortical bone geometry in pQCT**

Cervinka, T., Sievänen, H., Lala, D., Cheung, A. M., Giangregorio, L. & Hyttinen, J., 1 Dec 2015, In : *Bone*. 81, p. 721-730 10 p.

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

#### **$\mu$ CT based assessment of mechanical deformation of designed PTMC scaffolds**

Narra, N., Blanquer, S. B. G., Haimi, S. P., Grijpma, D. W. & Hyttinen, J., 2 Jul 2015, In : *Clinical Hemorheology and Microcirculation*. 60, 1, p. 99-108 10 p.

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

**A motion artifact generation and assessment system for the rapid testing of surface biopotential electrodes**

Cömert, A. & Hyttinen, J., 1 Jan 2015, In : *Physiological Measurement*. 36, 1, p. 1-25 25 p., 1.

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

**Effect of Omeprazole Dose, Nonsteroidal Anti-inflammatory Agents, and Smoking on Repair Mechanisms in Acute Peptic Ulcer Bleeding**

Rantanen, T., Udd, M., Honkanen, T., Miettinen, P., Kärjä, V., Rantanen, L., Julkunen, R., Mustonen, H., Paavonen, T. & Oksala, N., 20 Aug 2014, In : *Digestive Diseases and Sciences*. 59, 11, p. 2666-2674 9 p.

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

**Movement of NH<sub>3</sub> through the human urea transporter B: A new gas channel**

Ryan Geyer, R., Musa-Aziz, R., Enkavi, G., Mahinthichaichan, P., Tajkhorshid, E. & Boron, W. F., 15 Jun 2013, In : *AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY*. 304, 12, p. 1447-1457 11 p.

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

**Effect of exercise on bone structural traits, physical performance and body composition in breast cancer patients - A 12-month RCT**

Nikander, R., Sievänen, H., Ojala, K., Kellokumpu-Lehtinen, P. L., Palva, T., Blomqvist, C., Luoto, R. & Saarto, T., Sep 2012, In : *Journal of Musculoskeletal and Neuronal Interactions*. 12, 3, p. 127-135 9 p.

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

**Cysteine-rich protein 1 is regulated by transforming growth factor-β1 and expressed in lung fibrosis**

Järvinen, P. M., Myllärmiemi, M., Liu, H., Moore, H. M., Leppäranta, O., Salmenkivi, K., Koli, K., Latonen, L., Band, A. M. & Laiho, M., Jun 2012, In : *Journal of Cellular Physiology*. 227, 6, p. 2605-2612 8 p.

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

**Mesopic background lights enhance dark-adapted cone ERG flash responses in the intact mouse retina: A possible role for gap junctional decoupling**

Heikkinen, H., Vinberg, F., Nymark, S. & Koskelainen, A., May 2011, In : *Journal of Neurophysiology*. 105, 5, p. 2309-2318 10 p.

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

**Computational modeling of electrophysiology and pharmacotherapy of atrial fibrillation: Recent advances and future challenges**

Vagos, M. R. S. S., van Herck, I. G. M., Sundnes, J., Arevalo, H. J., Edwards, A. G. & Koivumäki, J. T., 4 Sep 2018, In : *Frontiers in Physiology*. 9, SEP, 1221.

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

**MicroRNAs in atherosclerosis**

Hosin, A. A., Prasad, A., Viiri, L. E., Davies, A. H. & Shalhoub, J., 6 Feb 2014, In : *Journal of Vascular Research*. 51, 5, p. 338-349 12 p.

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

**Systematic review of wireless phone use and brain cancer and other head tumors**

Repacholi, M. H., Lerchl, A., Rösli, M., Sienkiewicz, Z., Auvinen, A., Breckenkamp, J., D'Inzeo, G., Elliott, P., Frei, P., Heinrich, S., Lagroye, I., Lahkola, A., McCormick, D. L., Thomas, S. & Vecchia, P., Apr 2012, In : *Bioelectromagnetics*. 33, 3, p. 187-206 20 p.

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