

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

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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

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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., Reichenspurner, 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

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

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

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

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

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

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

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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

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

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

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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

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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

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

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

μ CT based assessment of mechanical deformation of designed PTMC scaffolds

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

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

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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

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

Movement of NH₃ through the human urea transporter B: A new gas channel

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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

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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

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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

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

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

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

MicroRNAs in atherosclerosis

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

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

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