

- Bartolucci C, Passini E, Hyttinen J, Paci M, Severi S. 2020. Simulation of the Effects of Extracellular Calcium Changes Leads to a Novel Computational Model of Human Ventricular Action Potential With a Revised Calcium Handling. *Frontiers in Physiology*. 11. <https://doi.org/10.3389/fphys.2020.00314>
- Björk S, Ojala EA, Nordström T, Ahola A, Liljeström M, Hyttinen J, Kankuri E, Mervaala E. 2017. Evaluation of optogenetic electrophysiology tools in human stem cell-derived cardiomyocytes. *Frontiers in Physiology*. 8(NOV). <https://doi.org/10.3389/fphys.2017.00884>
- Cervinka T, Sievänen H, Lala D, Cheung AM, Giangregorio L, Hyttinen J. 2015. A new algorithm to improve assessment of cortical bone geometry in pQCT. *Bone*. 81:721-730. <https://doi.org/10.1016/j.bone.2015.09.015>
- Cömert A, Hyttinen J. 2015. A motion artifact generation and assessment system for the rapid testing of surface biopotential electrodes. *Physiological Measurement*. 36(1):1-25. <https://doi.org/10.1088/0967-3334/36/1/1>
- Gracia-Tabuenca J, Seppä V-P, Jauhiainen M, Paasilta M, Viik J, Karjalainen J. 2020. Tidal breathing flow profiles during sleep in wheezing children measured by impedance pneumography. *Respiratory Physiology and Neurobiology*. 271. <https://doi.org/10.1016/j.resp.2019.103312>
- Harju J, Tarniceriu A, Parak J, Vehkaoja A, Yli-Hankala A, Korhonen I. 2018. Monitoring of heart rate and inter-beat intervals with wrist plethysmography in patients with atrial fibrillation. *Physiological Measurement*. 39(6). <https://doi.org/10.1088/1361-6579/aac9a9>
- Heikkinen H, Vinberg F, Nymark S, Koskelainen A. 2011. Mesopic background lights enhance dark-adapted cone ERG flash responses in the intact mouse retina: A possible role for gap junctional decoupling. *Journal of Neurophysiology*. 105(5):2309-2318. <https://doi.org/10.1152/jn.00536.2010>
- Hosin AA, Prasad A, Viiri LE, Davies AH, Shalhoub J. 2014. MicroRNAs in atherosclerosis. *Journal of Vascular Research*. 51(5):338-349. <https://doi.org/10.1159/000368193>
- Järvinen PM, Myllärniemi M, Liu H, Moore HM, Leppäranta O, Salmenkivi K, Koli K, Latonen L, Band AM, Laiho M. 2012. Cysteine-rich protein 1 is regulated by transforming growth factor- $\beta$ 1 and expressed in lung fibrosis. *Journal of Cellular Physiology*. 227(6):2605-2612. <https://doi.org/10.1002/jcp.23000>
- Johansson JK, Karema-Jokinen VI, Hakanen S, Jylhä A, Uusitalo H, Vihinen-Ranta M, Skottman H, Ihalainen TO, Nymark S. 2019. Sodium channels enable fast electrical signaling and regulate phagocytosis in the retinal pigment epithelium. *BMC BIOLOGY*. 17(1). <https://doi.org/10.1186/s12915-019-0681-1>
- Juchheim J, Annighöfer P, Ammer C, Calders K, Raumonon P, Seidel D. 2017. How management intensity and neighborhood composition affect the structure of beech (*Fagus sylvatica* L.) trees. *TREES-STRUCTURE AND FUNCTION*. 31(5):1723-1735. <https://doi.org/10.1007/s00468-017-1581-z>
- Kalli AC, Rog T, Vattulainen I, Campbell ID, Sansom MSP. 2017. The Integrin Receptor in Biologically Relevant Bilayers: Insights from Molecular Dynamics Simulations. *Journal of Membrane Biology*. 250:337-351. <https://doi.org/10.1007/s00232-016-9908-z>
- Kangas P, Tikkakoski A, Uitto M, Viik J, Bouquin H, Niemelä O, Mustonen J, Pörsti I. 2019. Metabolic syndrome is associated with decreased heart rate variability in a sex-dependent manner: a comparison between 252 men and 249 women. *Clinical Physiology and Functional Imaging*. 39(2):160-167. <https://doi.org/10.1111/cpf.12551>
- Korpinen L, Kuisti H, Elovaara J. 2016. Current densities and total contact currents during forest clearing tasks under 400kV power lines. *Bioelectromagnetics*. 37(6):423-428. <https://doi.org/10.1002/bem.21980>

Lau A, Bentley LP, Martius C, Shenkin A, Bartholomeus H, Raunonen P, Malhi Y, Jackson T, Herold M. 2018. Quantifying branch architecture of tropical trees using terrestrial LiDAR and 3D modelling. *Trees - Structure and Function*. 32(5):1219-1231. <https://doi.org/10.1007/s00468-018-1704-1>

Lolicato F, Juhola H, Zak A, Postila PA, Saukko A, Rissanen S, Enkavi G, Vattulainen I, Kepczynski M, Róg T. 2020. Membrane-Dependent Binding and Entry Mechanism of Dopamine into Its Receptor. *ACS Chemical Neuroscience*. 11(13):1914-1924. <https://doi.org/10.1021/acscchemneuro.9b00656>

Medan V, Mäki-Marttunen T, Sztarker J, Preuss T. 2018. Differential processing in modality-specific Mauthner cell dendrites. *Journal of Physiology*. 596(4):667-689. <https://doi.org/10.1113/JP274861>

Mokkila S, Postila PA, Rissanen S, Juhola H, Vattulainen I, Róg T. 2017. Calcium Assists Dopamine Release by Preventing Aggregation on the Inner Leaflet of Presynaptic Vesicles. *ACS Chemical Neuroscience*. 8(6):1242-1250. <https://doi.org/10.1021/acscchemneuro.6b00395>

Narra N, Blanquer SBG, Haimi SP, Grijpma DW, Hyttinen J. 2015.  $\mu$ CT based assessment of mechanical deformation of designed PTMC scaffolds. *Clinical Hemorheology and Microcirculation*. 60(1):99-108. <https://doi.org/10.3233/CH-151931>

Nikander R, Sievänen H, Ojala K, Kellokumpu-Lehtinen PL, Palva T, Blomqvist C, Luoto R, Saarto T. 2012. Effect of exercise on bone structural traits, physical performance and body composition in breast cancer patients - A 12-month RCT. *Journal of Musculoskeletal and Neuronal Interactions*. 12(3):127-135.

Ormiskangas J, Valtonen O, Kivekäs I, Dean M, Poe D, Järnstedt J, Lekkala J, Harju T, Saarenrinne P, Rautiainen M. 2020. Assessment of PIV performance in validating CFD models from nasal cavity CBCT scans. *Respiratory Physiology and Neurobiology*. 282. <https://doi.org/10.1016/j.resp.2020.103508>

Owen MC, Kulig W, Rog T, Vattulainen I, Strodel B. 2018. Cholesterol Protects the Oxidized Lipid Bilayer from Water Injury: An All-Atom Molecular Dynamics Study. *Journal of Membrane Biology*. 251(3):521-534. <https://doi.org/10.1007/s00232-018-0028-9>

Paci M, Pölonen R-P, Cori D, Penttinen K, Aalto-Setälä K, Severi S, Hyttinen J. 2018. Automatic optimization of an in silico model of human iPSC derived cardiomyocytes recapitulating calcium handling abnormalities. *Frontiers in Physiology*. 9(JUN). <https://doi.org/10.3389/fphys.2018.00709>

Pecha S, Koivumäki J, Geelhoed B, Kempe R, Berk E, Engel A, Reichenspurner H, Eschenhagen T, Ravens U, Kaumann A, Christ T. 2018. Normalization of force to muscle cross-sectional area: A helpful attempt to reduce data scattering in contractility studies?. *Acta Physiologica*. 224(4). <https://doi.org/10.1111/apha.13202>

Rantanen T, Udd M, Honkanen T, Miettinen P, Kärjä V, Rantanen L, Julkunen R, Mustonen H, Paavonen T, Oksala N. 2014. Effect of Omeprazole Dose, Nonsteroidal Anti-inflammatory Agents, and Smoking on Repair Mechanisms in Acute Peptic Ulcer Bleeding. *Digestive Diseases and Sciences*. 59(11):2666-2674. <https://doi.org/10.1007/s10620-014-3242-z>

Repacholi MH, Lerchl A, Rösli M, Sienkiewicz Z, Auvinen A, Breckenkamp J, D'Inzeo G, Elliott P, Frei P, Heinrich S, Lagroye I, Lahkola A, McCormick DL, Thomas S, Vecchia P. 2012. Systematic review of wireless phone use and brain cancer and other head tumors. *Bioelectromagnetics*. 33(3):187-206. <https://doi.org/10.1002/bem.20716>

Rissanen S, Grzybek M, Orlowski A, Róg T, Cramariuc O, Levental I, Eggeling C, Sezgin E, Vattulainen I. 2017. Phase partitioning of GM1 and its bodipy-labeled analog determine their different binding to Cholera Toxin. *Frontiers in Physiology*. 8(MAY). <https://doi.org/10.3389/fphys.2017.00252>

Ryan Geyer R, Musa-Aziz R, Enkavi G, Mahinthichaichan P, Tajkhorshid E, Boron WF. 2013. Movement of NH<sub>3</sub> through the human urea transporter B: A new gas channel. *AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY*. 304(12):1447-1457. <https://doi.org/10.1152/ajprenal.00609.2012>

Sciacca MFM, 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. 2017. Inhibition of A $\beta$  Amyloid Growth and Toxicity by Silybins: The Crucial Role of Stereochemistry. *ACS Chemical Neuroscience*. 8(8):1767-1778. <https://doi.org/10.1021/acscemneuro.7b00110>

Vagos MRSS, van Herck IGM, Sundnes J, Arevalo HJ, Edwards AG, Koivumäki JT. 2018. Computational modeling of electrophysiology and pharmacotherapy of atrial fibrillation: Recent advances and future challenges. *Frontiers in Physiology*. 9(SEP). <https://doi.org/10.3389/fphys.2018.01221>

Wnętrzak A, Makyła-Juzak K, Filiczowska A, Kulig W, Dynarowicz-Łątka P. 2017. Oxysterols Versus Cholesterol in Model Neuronal Membrane. I. The Case of 7-Ketocholesterol. The Langmuir Monolayer Study. *Journal of Membrane Biology*. 250(5):553–564. <https://doi.org/10.1007/s00232-017-9984-8>