

- Ormiskangas, J., Valtonen, O., Kivekäs, I., Dean, M., Poe, D., Järnstedt, J., ... Rautiainen, M. (2020). Assessment of PIV performance in validating CFD models from nasal cavity CBCT scans. *Respiratory Physiology and Neurobiology*, *282*, [103508]. <https://doi.org/10.1016/j.resp.2020.103508>
- 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*, [314]. <https://doi.org/10.3389/fphys.2020.00314>
- Lolicato, F., Juhola, H., Zak, A., Postila, P. A., Saukko, A., Rissanen, S., ... 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/acscemneuro.9b00656>
- Gracia-Tabuenca, J., Seppä, V.-P., Jauhiainen, M., Paassilta, M., Viik, J., & Karjalainen, J. (2020). Tidal breathing flow profiles during sleep in wheezing children measured by impedance pneumography. *Respiratory Physiology and Neurobiology*, *271*, [103312]. <https://doi.org/10.1016/j.resp.2019.103312>
- Johansson, J. K., Karema-Jokinen, V. I., Hakanen, S., Jylhä, A., Uusitalo, H., Vihinen-Ranta, M., ... Nymark, S. (2019). Sodium channels enable fast electrical signaling and regulate phagocytosis in the retinal pigment epithelium. *BMC BIOLOGY*, *17*(1), [63]. <https://doi.org/10.1186/s12915-019-0681-1>
- Kangas, P., Tikkakoski, A., Uitto, M., Viik, J., Bouquin, H., Niemelä, O., ... 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>
- Pecha, S., Koivumäki, J., Geelhoed, B., Kempe, R., Berk, E., Engel, 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), [e13202]. <https://doi.org/10.1111/apha.13202>
- Lau, A., Bentley, L. P., Martius, C., Shenkin, A., Bartholomeus, H., Raunonen, P., ... 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>
- Vagos, M. R. S. S., van Herck, I. G. M., Sundnes, J., Arevalo, H. J., Edwards, A. G., & Koivumäki, J. T. (2018). Computational modeling of electrophysiology and pharmacotherapy of atrial fibrillation: Recent advances and future challenges. *Frontiers in Physiology*, *9*(SEP), [1221]. <https://doi.org/10.3389/fphys.2018.01221>
- 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), [709]. <https://doi.org/10.3389/fphys.2018.00709>
- 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), [065007]. <https://doi.org/10.1088/1361-6579/aac9a9>
- Owen, M. C., 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>
- 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>
- Björk, S., Ojala, E. A., Nordström, T., Ahola, A., Liljeström, M., Hyttinen, J., ... Mervaala, E. (2017). Evaluation of optogenetic electrophysiology tools in human stem cell-derived cardiomyocytes. *Frontiers in Physiology*, *8*(NOV), [884]. <https://doi.org/10.3389/fphys.2017.00884>

Sciaccia, M. F. M., Romanucci, V., Zarrelli, A., Monaco, I., Lolicato, F., Spinella, N., ... 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>

Juchheim, J., Annighöfer, P., Ammer, C., Calders, K., Raunonen, 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>

Mokkila, S., Postila, P. A., 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/acscemneuro.6b00395>

Rissanen, S., Grzybek, M., Orłowski, A., Róg, T., Cramariuc, O., Levental, I., ... Vattulainen, I. (2017). Phase partitioning of GM1 and its bodipy-labeled analog determine their different binding to Cholera Toxin. *Frontiers in Physiology*, *8*(MAY), [252]. <https://doi.org/10.3389/fphys.2017.00252>

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>

Kalli, A. C., Rog, T., Vattulainen, I., Campbell, I. D., & Sansom, M. S. P. (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>

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>

Cervinka, T., Sievänen, H., Lala, D., Cheung, A. M., 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>

Narra, N., Blanquer, S. B. G., Haimi, S. P., Grijpma, D. W., & 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>

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. [1]. <https://doi.org/10.1088/0967-3334/36/1/1>

Rantanen, T., Udd, M., Honkanen, T., Miettinen, P., Kärjä, V., Rantanen, L., ... 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>

Hosin, A. A., Prasad, A., Viiri, L. E., Davies, A. H., & Shalhoub, J. (2014). MicroRNAs in atherosclerosis. *Journal of Vascular Research*, *51*(5), 338-349. <https://doi.org/10.1159/000368193>

Ryan Geyer, R., Musa-Aziz, R., Enkavi, G., Mahinthichaichan, P., Tajkhorshid, E., & Boron, W. F. (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>

Nikander, R., Sievänen, H., Ojala, K., Kellokumpu-Lehtinen, P. L., Palva, T., Blomqvist, C., ... 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.

Järvinen, P. M., Myllärmiemi, M., Liu, H., Moore, H. M., Leppäranta, O., Salmenkivi, K., ... 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>

Repacholi, M. H., Lerchl, A., Rösli, M., Sienkiewicz, Z., Auvinen, A., Breckenkamp, J., ... 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>

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>