

## Publications

### Imola WILHELM

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1. Mészáros Á, Molnár K, Fazakas C, Nógrádi B, Lüvi A, Dudás T, Tizslavicz L, Farkas AE, Krizbai IA<sup>#</sup>, **Wilhelm I<sup>#</sup>**. Inflammasome activation in peritumoral astrocytes is a key player in breast cancer brain metastasis development. *Acta Neuropathol Commun.* 11:155 (2023) (IF2022: 7.1, ranking: D1). doi: 10.1186/s40478-023-01646-2.
2. **Wilhelm I**, Molnár K, Krizbai IA. Role of cerebral endothelial tight junctions in the formation of brain tumors. In: *Tight Junctions*. (Editor: L. Gonzalez-Mariscal), Springer, Chapter 12, pp. 271-97 (2022) (book chapter). doi: 10.1007/978-3-030-97204-2\_12.
3. **Wilhelm I**, Krizbai IA, Gherghiceanu M, Szoke E, Helyes Z. Editorial: Targeting neuro-immuno-vascular interactions in the brain and the periphery. *Front Pharmacol.* 13: 893384 (2022) (editorial). doi: 10.3389/fphar.2022.893384.
4. Molnár K, Nógrádi B, Kristóf R, Mészáros Á, Pajer K, Siklós L, Nógrádi A, **Wilhelm I<sup>#</sup>**, Krizbai IA<sup>#</sup>. Motoneuronal inflammasome activation triggers excessive neuroinflammation and impedes regeneration after sciatic nerve injury. *J Neuroinflammation.* 19:68 (2022) (IF: 9.3, ranking: D1). doi: 10.1186/s12974-022-02427-9.
5. Kozma M, Mészáros Á, Nyúl-Tóth Á, Molnár K, Costea L, Hernádi Z, Fazakas C, Farkas AE, **Wilhelm I<sup>#</sup>**, Krizbai IA<sup>#</sup>. Cerebral pericytes and endothelial cells communicate through inflammasome-dependent signals. *Int J Mol Sci.* 22:6122 (2021) (IF: 6.208, ranking: D1). doi: 10.3390/ijms22116122.
6. Figueira I, Godinho-Pereira J, Galego S, Maia J, Hasko J, Molnar K, Malho R, Costa-Silva B, **Wilhelm I**, Krizbai IA, Brito MA. MicroRNAs and extracellular vesicles as distinctive biomarkers of precocious and advanced stages of breast cancer brain metastases development. In: *Prime Archives in Molecular Sciences 2<sup>nd</sup> ed.* (Editor: L. Giampietro), Vide Leaf, pp. 1-39 (2021) (book chapter/republication).
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8. Fazakas C, Kozma M, Molnár K, Kincses A, Dér A, Fejér A, Horváth B, **Wilhelm I**, Krizbai IA, Végh AG. Breast adenocarcinoma-derived exosomes lower first-contact de-adhesion strength of adenocarcinoma cells to brain endothelial layer. *Colloids Surf B Biointerfaces.* 204:111810 (2021) (IF: 5.999, ranking: Q1). doi: 10.1016/j.colsurfb.2021.111810.
9. Figueira I, Galego S, Custódio-Santos T, Vicente R, Molnár K, Haskó J, Malhó R, Videira M, **Wilhelm I**, Krizbai I, Brito MA. Picturing breast cancer brain metastasis development to unravel molecular players and cellular crosstalk. *Cancers (Basel).* 13:910 (2021) (IF: 6.575, ranking: Q1). doi: 10.3390/cancers13040910.
10. Nyúl-Tóth Á, Tarantini S, Delfavero J, Yan F, Balasubramanian P, Yabluchanskiy A, Ahire C, Kiss T, Csipo T, Lipecz A, Farkas AE, **Wilhelm I**, Krizbai IA, Tang Q, Csiszar A, Ungvari ZI. Demonstration

- of age-related blood-brain barrier disruption and cerebromicrovascular rarefaction in mice by two-photon microscopy & optical coherence tomography. *Am J Physiol Heart Circ Physiol*. 320:H1370-H1392 (2021) (IF: 5.125, ranking: Q1). doi:10.1152/ajpheart.00709.2020.
11. Molnár K, Lőrinczi B, Fazakas C, Szatmári I, Fülöp F, Kmetykó N, Berkecz R, Ilisz I, Krizbai IA, **Wilhelm I**<sup>#</sup>, Vécsei L<sup>#</sup>. SZR-104, a novel kynurenic acid analogue with high permeability through the blood-brain barrier. *Pharmaceutics*. 13:E61 (2021) (brief report) (IF: 6.525, ranking: Q1). doi: 10.3390/pharmaceutics13010061.
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