

Most important results/publications

The five most important publications of my entire scientific career:

1. **Zsembery Á.**, W. Jessner, G. Sitter, C. Spirli, M. Strazzabosco, J. Graf. Correction of CFTR malfunction and stimulation of Ca^{2+} -activated Cl^- channels restore HCO_3^- secretion in cystic fibrosis bile ductular cells. *Hepatology* 2002;35:95-104. DOI: 10.1053/jhep.2002.30423. D1/Q1

Independent citations: 52

2. **Zsembery Á.**, A.T Boyce, L Liang, J. Peti-Peterdi, P.D. Bell, E.M. Schwiebert. Sustained calcium entry through P2X nucleotide receptor channels in human airway epithelial cells. *J. Biol. Chem.* 2003;278:13398-13408. DOI: 10.1074/jbc.M212277200. D1/Q1

Independent citations: 74

3. Schwiebert E.M., **Zsembery Á.** Extracellular ATP as a signaling molecule for epithelial cells. *Biochim. Biophys. Acta - Biomembranes* 2003;1615:7-32. DOI: 10.1016/S0005-2736(03)00210-4. Q1

Independent citations: 405

4. Balázs B., Dankó T., Kovács G., Köles L., Hediger MA. and **Zsembery Á.** Investigation of the inhibitory effects of the benzodiazepine derivative, 5-BDBD on P2X₄ purinergic receptors by two complementary methods. *Cell. Physiol. Biochem.* 2013;32:11-24. DOI: 10.1159/000350119. Q2

Independent citations: 62

5. Dobay O., Laub K., Stercz B., Kéri A., Balázs B., Tóthpál A., Kardos S., Jaikumpun P., Ruksakiet K., Quinton P.M. and **Zsembery Á.** Bicarbonate inhibits bacterial growth and biofilm formation of prevalent cystic fibrosis pathogens. *Front. Microbiol.* 9:2245. DOI: 10.3389/fmicb.2018.02245. Q1

Independent citations: 47

The five most important publications in the last five years:

1. Kádár K., Juhász V., Földes A., Rácz R., Zhang Y., Löchli H., Kató E., Köles L., Steward M.C., DenBesten P., Varga G. and **Zsembery Á.** TRPM7-mediated calcium transport in HAT-7 ameloblasts. Int. J. Mol. Sci. 2021, 22, 3992, DOI: 10.3390/ijms22083992. D1/Q1

Independent citations: 9

2. Ruksakiet K., Stercz B., Tóth G., Jaikumpun P., Gróf I., Tengölics R., Lohinai Z., Horváth P., Deli M.A., Steward M.C., Dobay O., and **Zsembery Á.** Bicarbonate Evokes Reciprocal Changes in Intracellular Cyclic di-GMP and Cyclic AMP Levels in *Pseudomonas aeruginosa*. Biology 2021, 10, 519.doi.org/10.3390/biology10060519. Q1

Independent citations: 5

3. Hegedűs T., Kreuter P., Kismarci-Antalffy A.A., Demeter T., Bányai D., Végh A., Géczi Z., Hermann P., Payer M., **Zsembery Á.**, Al-Hassiny A., Mukaddam K., Herber V., Jakse N. and Végh D. User Experience and Sustainability of 3D Printing in Dentistry. International Journal of Environmental Research and Public Health 2022, 19, 1921. DOI: 10.3390/ijerph19041921. Q2

Independent citations: 42

4. Sramkó B., Földes A., Kádár K., Varga G., **Zsembery Á.**, Pircs K. The Wisdom in Teeth: Neuronal Differentiation of Dental Pulp Cells. Cellular Programming 2023 Jan 31. DOI: 10.1089/cell.2022.0102. Q3

Independent citations: 12

5. Köles L., Ribiczey P.; Szebeni A., Kádár K., Zelles T., **Zsembery Á.** The Role of TRPM7 in Oncogenesis Int. J. Mol Sci. 25:2 Paper: 719, 31 p. 2024 DOI: 10.3390/ijms25020719. D1/Q1

Independent citations: 13