

Complete List of Publications*

- Please note that it has been 3 years I have switched to the translational research which implies that all my current works are under patent consideration (two patents are being considered).

42. Aurélien Haustrate, Aline Hantute-Ghesquier, Natalia Prevarskaya and **V'yacheslav Lehen'kyi**. Monoclonal Antibodies Targeting Ion Channels and Their Therapeutic Potential. **Frontiers in Pharmacology**, 2019 published: 05 June **2019**, doi: 10.3389/fphar.2019.00606.
41. Haustrate A, Hantute-Ghesquier A, Prevarskaya N, **Lehen'kyi V**. TRPV6 calcium channel regulation, downstream pathways, and therapeutic targeting in cancer. **Cell Calcium**. 2019 Jun;80:117-124. doi: 10.1016/j.ceca.2019.04.006. Epub **2019** Apr 22. Review. PubMed PMID: 31055179.
40. Mohammadi, Fakhrossadat; Sahraei, Amin; Li, Chengnan; Haustrate, Aurélien; **Lehen'kyi, V'yacheslav** ; Barras, Alexandre; Boukherroub, Rabah; Szunerits, Sabine. Interaction of Human α -1-Acid Glycoprotein (AGP) with Citrate-Stabilized Gold Nanoparticles: Formation of Unexpectedly Strong Binding Events. **The Journal of Physical Chemistry**. **2019**. 12, 38, 5073-5083.
39. Aline Hantute-Ghesquier, Aurélien Haustrate, Natalia Prevarskaya, and V'yacheslav Lehen'kyi. TRPM Family Channels in Cancer. **Pharmaceuticals** **2018**, 11, 58; doi:10.3390/ph11020058.
38. Alexandre Barras, Nadia Skandrani, Mariano Gonzalez Pisfil, Solomiya Paryzhak, Tetiana Dumych, Aurelien Haustrate, Laurent Heliot, Tijani Gharbi, Hatem Boulahdour, **V'yacheslav Lehen'kyi**, Rostyslav Bilyy, Sabine Szunerits, Gabriel Bidaux, and Rabah Boukherroub. Improved Photodynamic Effect through Encapsulation of Two Photosensitizers in Lipid Nanocapsules. **J. Mater. Chem. B**, 2018, 6, 5949-5963.
37. Dubois C, **Lehenkyi V**, Prevarskaya N. CRAC Channel Components Quantitative Expression (In **Tissues and Cell Lines**) Using qPCR. **Methods Mol Biol**. **2018**;1843:95-106. doi: 10.1007/978-1-4939-8704-7_8. PubMed PMID: 30203280.
36. Iamshanova O, Mariot P, **Lehen'kyi V**, Prevarskaya N. Comparison of fluorescence probes for intracellular sodium imaging in prostate cancer cell lines. **Eur Biophys J**. **2016** Oct;45(7):765-777. PubMed PMID: 27660079.
35. Gordienko D, Povstyan O, Sukhanova K, Raphaël M, Harhun M, Dyskina Y, **Lehen'kyi V**, Jama A, Lu ZL, Skryma R, Prevarskaya N. Impaired P2X signalling pathways in renal microvascular myocytes in genetic hypertension. **Cardiovasc Res**. **2015** Feb 1;105(2):131-42. doi: 10.1093/cvr/cvu249. Epub 2014 Dec 16. PubMed PMID: 25514930.
34. Raphaël M*, **Lehen'kyi V***, Vandenberghe M*, Beck B, Khalimonchyk S, Vanden Abeele F, Farsetti L, Germain E, Bokhobza A, Mihalache A, Gosset P, Romanin C, Clézardin P, Skryma R,

Prevarskaya N. TRPV6 calcium channel translocates to the plasma membrane via Orail-mediated mechanism and controls cancer cell survival. **Proc Natl Acad Sci U S A.** **2014** Aug 29. pii: 201413409.

33. Dubois C*, Vanden Abeele F*, **Lehen'kyi V**, Gkika D, Guarmit B, Lepage G, Slomianny C, Borowiec AS, Bidaux G, Benahmed M, Shuba Y, Prevarskaya N. Remodeling of channel-forming ORAI proteins determines an oncogenic switch in prostate cancer. **Cancer Cell.** **2014** Jul 14;26(1):19-32. doi: 10.1016/j.ccr.2014.04.025.

32. Kondratskiy A, Yassine M, Slomianny C, Kondratska K, Gordienko D, Dewailly E, **Lehen'kyi V**, Skryma R, Prevarskaya N. Identification of ML-9 as a lysosomotropic agent targeting autophagy and cell death. **Cell Death Dis.** **2014** Apr 24;5:e1193. doi: 10.1038/cddis.2014.156. PubMed PMID: 24763050.

31. Vandenberghe M*, Raphaël M*, **Lehen'kyi V***, Gordienko D, Hastie R, Oddos T, Rao A, Hogan PG, Skryma R, Prevarskaya N. ORAI1 calcium channel orchestrates skin homeostasis. **Proc Natl Acad Sci U S A.** **2013**, Dec 10;110(50):E4839-48.

30. Oulidi A, Bokhobza A, Gkika D, Vanden Abeele F, **Lehen'kyi V**, Ouafik L, Mauroy B, Prevarskaya N. TRPV2 Mediates Adrenomedullin Stimulation of Prostate and Urothelial Cancer Cell Adhesion, Migration and Invasion. **PLoS One.** **2013** May 31;8(5):e64885.

29. **Lehen'kyi V**, Khalimonchyk S, Poutier A, Raphaël M, Prevarskaya N. Tumor Xenograft Models to Study the Role of TRP Channels in Tumorigenesis. Arpad Szallasi and Tamás Bíró (eds.), TRP Channels in Drug Discovery: Volume II, **Methods in Pharmacology and Toxicology**, **2012**, pp 391-399.

28. **Lehen'kyi V***, Vanoverberghe K*, Thébault S*, Raphaël M*, Vanden Abeele F, Slomianny C, Mariot P, Prevarskaya N. Cytoskeleton Reorganization as an Alternative Mechanism of Store-Operated Calcium Entry Control in Neuroendocrine-Differentiated Cells. **PLoS One.** **2012**;7(9):e45615.

27. **Lehen'kyi V**, Prevarskaya N. TRPV2 (transient receptor potential cation channel, subfamily V, member 2). **Atlas Genet Cytogenet Oncol Haematol.** March **2012**.

URL : <http://AtlasGeneticsOncology.org/Genes/TRPV2ID45817ch17p11.html>

26. **Lehen'kyi V**, Raphaël M, Prevarskaya N. The role of the TRPV6 channel in cancer. **J Physiol.** 2012 Mar 15;590(Pt 6):1369-76. Epub **2012** Feb 13. PubMed PMID: 22331416.

25. **Lehen'kyi V**, Prevarskaya N. Study of TRP Channels in Cancer Cells. In: Zhu MX, Editor. **TRP Channels.** Boca Raton (FL): CRC Press; **2011**. Chapter 17. PubMed PMID: 22593971.

24. **Lehen'kyi V** & Prevarskaya N. TRP-channels and Human Prostate Carcinogenesis. Chapter 7 in **Prostate Cancer - From Bench to Bedside.** Published by INTECH (ISBN 978-953-307-331-6). P. 133-142.

23. **Lehen'kyi V**, Shapovalov G, Skryma R, Prevarskaya N. Ion Channels in Control of Cancer and Cell Apoptosis. **Am J Physiol Cell Physiol.** **2011** Sep 21.
22. Shapovalov G, **Lehen'kyi V**, Skryma R, Prevarskaya N. TRP channels in cell survival and cell death in normal and transformed cells. **Cell Calcium.** **2011** May 29.
21. **Lehen'kyi V***, Raphaël M*, Oulidi A*, Flourakis M, Khalimonchik S, Kondratskyi A, Gordienko DV, Mauroy B, Bonnal JL, Skryma R, Prevarskaya N. TRPV6 Determines the Effect of Vitamin D3 on Prostate Cancer Cell Growth. **PLoS One.** **2011** Feb 11;6(2):e16856.
20. **Lehen'kyi V**, Prevarskaya N. Oncogenic TRP Channels. **Adv Exp Med Biol.** **2011**;704:929-45.
19. **Lehen'kyi V***, Vandenberghe M*, Belaubre F, Julié S, Castex-Rizzi N, Skryma R, Prevarskaya N. Acceleration of keratinocyte differentiation by transient receptor potential vanilloid (TRPV6) channel activation. **J Eur Acad Dermatol Venereol.** **2011** Feb;25 Suppl 1:12-8.
18. **Lehen'kyi V***, M Flourakis*, B Beck, M Raphaël, M Vandenberghe, FV Abeele, M Roudbaraki, G Lepage, B Mauroy, C Romanin, Y Shuba, R Skryma and N Prevarskaya. Orail contributes to the establishment of an apoptosis-resistant phenotype in prostate cancer cells. **Cell Death and Disease** **2010** Sep 16;1(9):e75.
17. **Lehen'kyi V***, Monet M*, Gackiere F, Firlej V, Vandenberghe M, Roudbaraki M, Gkika D, Pourtier A, Bidaux G, Slomianny C, Delcourt P, Rassendren F, Bergerat JP, Ceraline J, Cabon F, Humez S, Prevarskaya N. Role of cationic channel TRPV2 in promoting prostate cancer migration and progression to androgen resistance. **Cancer Res.** **2010** Feb 1;70(3):1225-35. Epub 2010 Jan 26.
16. El Hiani Y, Ahidouch A, **Lehen'kyi V**, Hague F, Gouilleux F, Mentaverri R, Kamel S, Lassoued K, Brûlé G, Ouadid-Ahidouch H. Extracellular signal-regulated kinases 1 and 2 and TRPC1 channels are required for calcium-sensing receptor-stimulated MCF-7 breast cancer cell proliferation. **Cell Physiol Biochem** **2009**;23(4-6):335-46.
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8. Thebault S, Flourakis M, Vanoverberghe K, Vandermoere F, Roudbaraki M, **Lehen'kyi V**, Slomianny C, Beck B, Mariot P, Bonnal JL, Mauroy B, Shuba Y, Capiod T, Skryma R, Prevarskaya N. Differential role of transient receptor potential channels in Ca²⁺ entry and proliferation of prostate cancer epithelial cells. **Cancer Res**, **2006** Feb 15;66(4):2038-47.
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