

I - LIST OF OUR OWN PUBLICATIONS ABOUT LENTICARE®

2023:

- (1) Totain, E., Lindner, L., Martin, N., Misseri Y., Iché A., Birling MC., Sorg T., Herault Y., Bousquet-Melou A., Bouillé P., Duthoit C., Pavlovic G., Boullier S. **Development of HPV16 mouse and dog models for more accurate prediction of human vaccine efficacy.** Lab Anim Res 39, 14 2023. <https://doi.org/10.1186/s42826-023-00166-3>

2022:

- (2) Mianné J, Nasri A, Nguyen Van C, Bourguignon C, Fieldès M, Ahmed E, Duthoit C, Martin N, Parrinello H, Louis A, Iché A, Gayon R, Samain F, Lamouroux L, Bouillé P, Bourdin A, Assou S, De Vos J. **Efficient CRISPR/Cas9-mediated gene knockout and interallelic gene conversion in human induced pluripotent stem cells using non-integrative bacteriophage-chimeric retrovirus-like particles.** BMC Biol 20, 8. 2022. <https://doi.org/10.1186/s12915-021-01214-x>

2021:

- (3) Chhour M, Perio P, Gayon R, Ternet-Fontebasso H, Ferry G, Nepveu F, Boutin JA, Sudor J, Reybier K. **Association of NQO2 With UDP-Glucuronosyltransferases Reduces Menadione Toxicity in Neuroblastoma Cells.** Front Pharmacol. 2021 May 10;12:660641. doi: 10.3389/fphar.2021.660641.

2019:

- (4) Devaud C, Tilkin-Mariamé AF, Vignolle-Vidoni A, et al. **FAK alternative splice mRNA variants expression pattern in colorectal cancer.** Int J Cancer. 2019;145(2):494-502. doi:10.1002/ijc.32120

2018:

(5) Cassagnes LE, Chhour M, Péro P, Sudor J, Gayon R, Ferry G, Boutin JA, Nepveu F, Reybier K. **Oxidative stress and neurodegeneration: The possible contribution of quinone reductase 2.** Free Radic Biol Med. 2018 Mar 8;120:56-61. doi: 10.1016/j.freeradbiomed.2018.03.002.

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(6) Cassagnes LE, Rakotoarivelo N, Sirigu S, Péro P, Najahi E, Chavas LM, Thompson A, Gayon R, Ferry G, Boutin JA, Valentin A, Reybier K, Nepveu F. **Role of Quinone Reductase 2 in the Antimalarial Properties of Indolone-Type Derivatives.** Molecules. 2017 Jan 30;22(2). pii: E210. doi: 10.3390/molecules22020210.

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(7) Prel A, Caval V, Gayon R, Ravassard P, Duthoit C, Payen E, Maouche-Chretien L, Creneguy A, Nguyen TH, Martin N, Piver E, Sevrain R, Lamouroux L, Leboulch P, Deschaseaux F, Bouillé P, Sensébé L, Pagès JC. **Highly efficient in vitro and in vivo delivery of functional RNAs using new versatile MS2-chimeric retrovirus-like particles.** Mol Ther Methods Clin Dev. 2015 Oct 21;2:15039. doi: 10.1038/mtm.2015.39. eCollection 2015.

(8) Cassagnes LE, Péro P, Ferry G, Moulharat N, Antoine M, Gayon R, Boutin JA, Nepveu F, Reybier K. **In cellulo monitoring of quinone reductase activity and reactive oxygen species production during the redox cycling of 1,2 and 1,4 quinones.** Free Radic Biol Med. 2015 Dec;89:126-34. doi: 10.1016/j.freeradbiomed.2015.07.150. Epub 2015 Sep 18.

2014:

(9) Jung L1, Tropel P, Moal Y, Teletin M, Jeandidier E, Gayon R, Himmelspach C, Bello F, André C, Tosch A, Mansouri A, Bruant-Rodier C, Bouillé P, Viville S. **ONSL and OSKM cocktails act synergistically in reprogramming human somatic cells into induced pluripotent stem cells.** Mol Hum Reprod. 2014 Feb 5.

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2013:

(11) Yang G1, Si-Tayeb K, Corbineau S, Vernet R, Gayon R, Dianat N, Martinet C, Clay D, Goulinet-Mainot S, Tachdjian G, Tachdjian G, Burks D, Vallier L, Bouillé P, Dubart-Kupperschmitt A, Weber A. **Integration-deficient lentivectors: an effective strategy to purify and differentiate human embryonic stem cell-derived hepatic progenitors.** BMC Biol. 2013 Jul 19;11:86.

II - LIST OF PUBLICATIONS QUOTING FLASH BIOSOLUTIONS', FLASH THERAPEUTICS' OR VECTALYS' PRODUCTS

2024:

(12) Paindelli C., Parietti V., Barrios S., Shepherd P., Pan T., Wang W.L., Satcher R., Logothetis C.J., Navone N., Campbell M.T., Mikos A.G., Dondossola E., **Bone mimetic environments support engineering, propagation, and analysis of therapeutic response of patient-derived cells, ex vivo and in vivo**, Acta Biomaterialia (2024), doi: <https://doi.org/10.1016/j.actbio.2024.02.025>

(13) Lotz-Jenne C., Lange R., Cren, S. Bourquin G., Goglia L., Kimmerlin T., Wicki M., Müller M., Artico N., Ackerknecht S., Joesch C., Mac Sweeney A. **Discovery and binding mode of a small molecule inhibitor of the apo form of human TDO2**. bioRxiv 2024.01.09.574827; doi: <https://doi.org/10.1101/2024.01.09.574827>

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(14) Norbert ME., Cuffel A., Riou G., Jean L., Blondel C., Dehayes J., Bisson A., Giverne C., Brotin E., Denoyelle C., Poulain L., Boyer O., Martinet J., Latouche JB. **Development of optimized cytotoxicity assays for assessing the antitumor potential of CAR-T cells**. Journal of Immunological Methods, 2023. <https://doi.org/10.1016/j.jim.2023.113603>.

(15) L. Comperat, L. Chagot, S. Massot, M.-L. Stachowicz, N. Dusserre, C. Médina, T. Desigaux, J.-W. Dupuy, J.-C. Fricain, H. Oliveira, **Harnessing Human Placental Membrane-Derived Bioinks: Characterization and Applications in Bioprinting and Vasculogenesis**. Adv. Healthcare Mater. 2023, 2303370. <https://doi.org/10.1002/adhm.202303370>

(16) Wang C., Terrigno M., Li J., Distler T., Pandya NJ., Ebeling M., Tyanova S., Hoozemans JJM., Dijkstra AA., Fuchs L., Xiang S., Bonni A., Grüniger F., Jagasia R. **Increased G3BP2-Tau interaction in tauopathies is a natural defense against Tau aggregation**. Neuron. 2023 Jun 23. <https://doi.org/10.1016/j.neuron.2023.05.033>

(17) Jeremiah N., Ferran H., Antoniadou K., De Azevedo K., Nikolic J., Maurin M., Benaroch P., Manel N. **RELA tunes innate-like interferon I/III responses in human T cells.** *J Exp Med* (2023) ; 220 (5): e20220666. <https://doi.org/10.1084/jem.20220666>

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(18) Kassem S., Diallo BK., El-Murr N., Carrié N., Tang A., Alain Fournier, ... & Martinet L., Virone-Oddos A.; **SAR442085, a novel anti-CD38 antibody with enhanced antitumor activity against multiple myeloma.** *Blood* (2022); 139 (8): 1160–1176. doi: <https://doi.org/10.1182/blood.2021012448>

(19) Sobacki M., Chen J., Krzywinska E., Nagarajan S., Fan Z.,, Stockmann C., **Vaccination-based immunotherapy to target profibrotic cells in liver and lung,** *Cell Stem Cell*, (2022), ISSN 1934-5909, <https://doi.org/10.1016/j.stem.2022.08.012>.

(20) Laplantine, E., Chable-Bessia, C., Oudin, A., Swain, J., Soria, A., Merida, P., Gourdelier, M., Mestiri, S., Besseghe, I., Bremaud, E., Neyret, A., Lyonnais, S., Favard, C., Benaroch, P., Hubert, M., Schwartz, O., Guerin, M., Danckaert, A., Del Nery, E., Muriaux, D., Weil, R., **The FDA approved drug Auranofin has a dual inhibitory effect on SARS-CoV-2 entry and NF-κB signaling,** *ISCIENCE* (2022), doi: <https://doi.org/10.1016/j.isci.2022.105066>.

(21) Coutier J, Auvré F, Lemaître G, Lataillade J-J, Deleuze J-F, Roméo P-H, Martin MT, Fortunel NO, **MXD4/MAD4 regulates human keratinocyte precursor fate,** *The Journal of Investigative Dermatology* (2022). <https://doi.org/10.1016/j.jid.2022.07.020>

(22) Lyu, P, Lu B. **New Advances in Using Virus-like Particles and Related Technologies for Eukaryotic Genome Editing Delivery.** *International Journal of Molecular Sciences* (2022). 23, no. 15: 8750. <https://doi.org/10.3390/ijms23158750>

(23) Whisenant, D., Lim, K., Revêchon, G., Yao, H., Bergo, M. O., Machtel, P., ... & Eriksson, M. **Transient expression of an adenine base editor corrects the Hutchinson-Gilford progeria syndrome mutation and improves the skin phenotype in mice.** *Nat Commun* 13, 3068 (2022). <https://doi.org/10.1038/s41467-022-30800-y>

(24) **Gene therapy at the crossroads.** *Nat Biotechnol* 40, 621 (2022). <https://doi.org/10.1038/s41587-022-01346-7>

(25) Moatti, A., Debesset, A., Pilon, C., Beldi-Ferchiou, A., Leclerc, M., Redjoul, R., ... & Thiolat, A. **TNFR2 blockade of regulatory T cells unleashes an antitumor immune response after hematopoietic stem-cell transplantation.** *Journal for Immunotherapy of Cancer*, 2022. 10(4). doi: 10.1136/jitc-2021-003508

(26) Illiano, S., Poirier, B., Minoletti, C., Pasquier, O., Riva, L., Chenede, X., ... & Janiak, P. **Characterization of a new potent and long-lasting single chain peptide agonist of RXFP1 in**

cells and in vivo translational models.. Research Square; 2022.
<https://doi.org/10.21203/rs.3.rs-1851233/v1>

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(29) Oliveira H, Médina C², Labrunie G, et al. **Cell-assembled extracellular matrix (CAM): a human biopaper for the biofabrication of pre-vascularized tissues able to connect to the host circulation in vivo.** Biofabrication 2022 ; 14 015005

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(30) Luce, E., Steichen, C., Allouche, M., Messina, A., Heslan, J. M., Lambert, T., & Dubart - Kupperschmitt, A. **In vitro recovery of FIX clotting activity as a marker of highly functional hepatocytes in a hemophilia B iPSC model.** Hepatology. 23 October 2021 doi:10.1002/hep.32211

(31) Pizzurro, G.A., Liu, C., Bridges, K. et al. **3D Model of the Early Melanoma Microenvironment Captures Macrophage Transition into a Tumor-Promoting Phenotype.** Cancers 2021, 13, 4579. doi:10.3390/cancers13184579

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(35) El-Khoury, F., Bignon, J. & Martin, JR. **jouvence, a new human snoRNA involved in the control of cell proliferation.** BMC Genomics 21, 817 (2020). Doi:10.1186/s12864-020-07197-3

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2019:

(40) Vasseur L, Cens T, Wagner R, et al. **Importance of the Choice of a Recombinant System to Produce Large Amounts of Functional Membrane Protein hERG.** *Int. J. Mol. Sci.* 2019, 20, 3181.

(41) Arfaoui A, Claire Rioualen C, Azzoni V, et al. **A genome - wide RNAi screen reveals essential therapeutic targets of breast cancer stem cells** *EMBO Mol Med* 2019 Sep 11: e9930

(42) Fortunel NO, Chadli L, Coutier J et al. **KLF4 inhibition promotes the expansion of keratinocyte precursors from adult human skin and of embryonic-stem-cell-derived keratinocytes.** *Nat Biomed Eng* 2019 Oct 21. doi:10.1038/s41551-019-0464-6

(43) Fortunel NO, Bouissou-Cadio E, Coutier, J et al. **Iterative Three-Dimensional Epidermis Bioengineering and Xenografting to Assess Long-Term Regenerative Potential in Human Keratinocyte Precursor Cells.** *Methods in Molecular Biology.* Humana Press 2019 Jul 1-13. doi: [10.1007/7651_2019_250](https://doi.org/10.1007/7651_2019_250)

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(57) Anita Chalasani, Kyungmin Ji, Mansoureh Sameni, Samia H. Mazumder, Yong Xu, Kamiar Moin, Bonnie F. Sloane. **Live-Cell Imaging of Protease Activity: Assays to Screen Therapeutic Approaches**. Springer New York 2017, pp 215-225, DOI 10.1007/978-1-4939-6850-3_16.

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