

## **1. List of our own publications:**

### **2019:**

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:**

Cassagnes LE, Chhour M, Pério 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.

### **2017 :**

Cassagnes LE, Rakotoarivelo N, Sirigu S, Pério 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.

### **2015:**

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.

Cassagnes LE, Perio 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:**

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.

Elbadawy HM, Gailledrat M, Desseaux C, Salvalaio G, Di Iorio E, Ferrari B, Bertolin M, Barbaro V, Parekh M, Gayon R, Munegato D, Franchin E, Calistri A, Palù G, Parolin C, Ponzin D, Ferrari S. **Gene transfer of integration defective anti-HSV-1 meganuclease to human corneas ex vivo.** Gene Ther. 2014 Jan 16.

### **2013:**

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.

### **2003:**

Baldeschi C, Gache Y, Rattenholl A, Bouillé P, Danos O, Ortonne JP, Bruckner-Tuderman L, Meneguzzi G. **Genetic correction of canine dystrophic epidermolysis bullosa mediated by retroviral vectors.** Hum. Mol. Genet., 2003, **12** (15):1897-1905.

### **2001:**

Martinez-Arca S, Coco S, Mainguy G, Schenk U, Alberts P, Bouillé P, Mezzina M, Prochiantz A, Matteoli M, Louvard D, Galli T. **A common exocytotic mechanism mediates axonal and dendritic outgrowth.** J Neurosci., 2001, **21** (11): 3830-3838.

### **2000:**

Cottard V, Mulleman D, Bouille P, Mezzina M, Boissier MC, Bessis N. **Adeno-associated virus-mediated delivery of IL-4 prevents collagen-induced arthritis.** Gene Ther., 2000, **7** (22):1930-1939.

### **1999:**

Piéroni L, Bouillé P, Auclair C, Guillosson JJ, Nafziger J. **Early steps of replication of moloney murine leukemia virus in resting lymphocytes.** Virology, 1999, **262** (2):408-415.

Bouillé P, Subra F, Mouscadet JF, Auclair C. **Antisense-mediated repression of DNA topoisomerase II expression leads to an impairment of HIV-1 replicative cycle.** J. Mol. Biol., 1999, **285** (3): 945-954.

### **1995:**

Bouillé P, Subra F, Goulaouic H, Carteau S, Auclair C. **Impairment of Moloney murine leukemia virus integration in a cell line underexpressing DNA topoisomerase II.** Cancer Res., 1995, **55** (14): 3211-3217.  
February 2014

## 2. List of publications quoting Vectalys's or Flash Therapeutics' products:

### 2021:

Sacha Salameh, Nicolas Tissot, Kevin Cache, Joaquim Lima , Itaru Suzuki , Paulo André Marinho, Maité Rielland, Jérémie Soeur, Shoji Takeuchi, Stéphane Germain and Lionel Breton. **A perfusable vascularized full-thickness skin model for potential topical and systemic applications.** Biofabrication. 2021 May 14;13(3). doi: 10.1088/1758-5090/abfca8.

Hugo Oliveira, Chantal Médina, Marie-Laure Stachowicz, Bruno Paiva dos Santos, Lise Chagot, Nathalie Dusserre, Jean-Christophe Fricain. **Extracellular matrix (ECM)-derived bioinks designed to foster vasculogenesis and neurite outgrowth: Characterization and bioprinting.** Bioprinting, Volume 22, 2021,e00134,doi.org/10.1016/j.bprint.2021.e00134.

Chhour M, Perio P, Gayon R, Ternet-Fontebasso H, Ferry G, Nepveu F, Boutin JA, Sudor J, Reybier K.Chhour M, et al. **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. eCollection 2021.Front Pharmacol. 2021. PMID: 34040527.

### 2020:

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

Blanca Morales Rodriguez, et al. **Activation of sarcolipin expression and altered calcium cycling in LMNA cardiomyopathy.** Biochemistry and Biophysics Reports, volume 22, 2020, 100767, <https://doi.org/10.1016/j.bbrep.2020.100767>.

Browning, James R et al. **A 3D biofabricated cutaneous squamous cell carcinoma tissue model with multi-channel confocal microscopy imaging biomarkers to quantify antitumor effects of chemotherapeutics in tissue.** Oncotarget vol. 11,27 2587-2596. 7 Jul. 2020, doi:10.18632/oncotarget.27570

Guyon C, Jmari N, Padonou F, et al. **Aire-dependent genes undergo Clp1-mediated 3'UTR shortening associated with higher transcript stability in the thymus.** Under revision; doi: 10.1101/837880

Ho, Y.K., Too, H.P. **Development of a laboratory scalable process for enhancing lentivirus production by transient transfection of HEK293 adherent cultures.** Gene Ther 27, 482–494 (2020). <https://doi.org/10.1038/s41434-020-0152-x>

Richard Proust, et al. **Cord blood-endothelial colony forming cells are immunotolerated and participate at post-ischemic angiogenesis in an original dorsal chamber immunocompetent mouse model.** Stem Cell Res Ther. 2020 May 7;11(1):172. doi: 10.1186/s13287-020-01687-7.

Kosyakova, N., Kao, D.D., Figetakis, M. et al. **Differential functional roles of fibroblasts and pericytes in the formation of tissue-engineered microvascular networks in vitro.** npj Regen Med 5, 1 (2020).  
<https://doi.org/10.1038/s41536-019-0086-3>

Ayan B, Heo DN, et al. **Aspiration-assisted bioprinting for precise positioning of biologics.** Sci Adv. 2020 Mar 6;6(10):eaaw5111. doi: 10.1126/sciadv.aaw5111.

## **2019:**

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.

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

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

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

Le Vée, M, Bacle, A, Bruyere, A, Fardel, O. **Neonicotinoid pesticides poorly interact with human drug transporters.** J Biochem Mol Toxicol. 2019 Jul; 33:e22379 doi :10.1002/jbt.22379

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Paindelli C, Navone N, Logothetis C, Friedl P, Dondossola E. **Engineered bone for probing organotypic growth and therapy response of prostate cancer tumoroids in vitro.** Biomaterials, Volume 197, March 2019, 296-304. doi: 10.1016/j.biomaterials.2019.01.027

Borot F, Wang H, Ma Y, Jafarov T, Raza A, Mahmood Ali A, and Mukherjee S. **Gene-edited stem cells enable CD33-directed immune therapy for myeloid malignancies.** Proceedings of the National Academy of Sciences May 2019, 201819992; DOI:10.1073/pnas.1819992116.

Xi Wen, Xuehua Xu, Wenxiang Sun, et al. **G-protein–coupled formyl peptide receptors play a dual role in neutrophil chemotaxis and bacterial phagocytosis** *Molecular Biology of the Cell* 2019 Jan 30:3, 346-356

## **2018:**

Dyczynskia M., Yuab Y., Otrockac M., Parpal S., et al. **Targeting autophagy by small molecule inhibitors of vacuolar protein sorting 34 (Vps34) improves the sensitivity of breast cancer cells to Sunitinib.** *Science Direct*, 2018 October, Volume 435, Pages 32-43. <https://doi.org/10.1016/j.canlet.2018.07.028>

Quesnot, N., Bucher, S., Gade, C. et al. **Production of chlorzoxazone glucuronides via cytochrome P450E1 dependent and independent pathways in human hepatocytes.** *Arch Toxicol* (2018) 92: 3077. <https://doi.org/10.1007/s00204-018-2300-2>

## **2017:**

Gautron A-S, Juillerat A, Guyot V, Filhol J-M, Dessez E, Duclert A, Duchateau P, Poirot L, **Fine and predictable tuning of TALEN gene editing targeting for improved T-cell adoptive immunotherapy**, *Molecular Therapy: Nucleic Acid* (2017), doi: 10.1016/j.omtn.2017.10.005.

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Esquerré M, Momot M, Goubier A, Gonindard C, Leung-Theung-Long S, Misseri Y, Bissery MC. **GTL001 and bivalent CyaA-based therapeutic vaccine strategies against human papillomavirus and other tumor-associated antigens induce effector and memory T-cell responses that inhibit tumor growth.** *Vaccine*. 2017 Mar 13;35(11):1509-1516. doi: 10.1016/j.vaccine.2017.01.074. Epub 2017 Feb 10.

Lisa Chedik, Arnaud Bruyere, Marc Le Vee, Bruno Stieger, Claire Denizot, Yannick Parmentier, Sophie Potin, Olivier Fardel (2017). **Inhibition of Human Drug Transporter Activities by the Pyrethroid Pesticides Allethrin and Tetramethrin.** January 18, 2017 doi.10.1371/journal.pone.0169480

Francesca Stillitano, Jens Hansen, Chi-Wing Kong, Ioannis Karakikes, Christian Funck-Brentano, Lin Geng, Stuart Scott, Stephan Reynier, Ma Wu, Yannick Valogne, Carole Desseaux, Joe-Elie Salem, Dorota Jeziorowska, Noel Zahr, Ronald Li, Ravi Iyengar, Roger J Hajjar, Jean-Se´ bastien Hulot (2017). **Modeling susceptibility to drug-induced long QT with a panel of subject-specific induced pluripotent stem cells.** *eLife* 2017;6:e19406

Cassagnes, L.-E.; Rakotoarivelo, N.; Sirigu, S.; Pério, P.; Najahi, E.; Chavas, L.M.G.; Thompson, A.; Gayon, R.; Ferry, G.; Boutin, J.A.; Valentin, A.; Reybier, K.; Nepveu, F. **Role of Quinone Reductase 2 in the Antimalarial Properties of Indolone-Type Derivatives.** *Molecules* 2017, 22, 210.

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.

## **2016:**

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Massart, R., Mignon, V., Stanic, J., Munoz-Tello, P., Becker, J. A., Kieffer, B. L., ... & Diaz, J. (2016). **Developmental and adult expression patterns of the G protein-coupled receptor GPR88 in the rat: Establishment of a dual nuclear-cytoplasmic localization**. Journal of Comparative Neurology.

Rossi, M., Massai, L., Diamanti, D., Fiengo, P., De Rosa, A., Magrini, R., ... & Pilli, E. (2016). **Multimodal molecular imaging system for pathway-specific reporter gene expression**. European Journal of Pharmaceutical Sciences

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Rouhani FJ, Nik-Zainal S, Wuster A, Li Y, Conte N, et al. (2016) **Mutational History of a Human Cell Lineage from Somatic to Induced Pluripotent Stem Cells**. PLoS Genet 12(4): e1005932. doi: 10.1371/journal.pgen.1005932

## **2015:**

Prel A, Caval V, Gayon R, Ravassard P, Duthoit C, Payen E, Maouche-Chretien L, Crenequy A, Nguyen TH, Martin N, Piver E, Sevrain R, Lamouroux L, Leboulch P, Deschaseaux F, Bouillé P, Sensébé L, Pagès JC (2015). **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.

Tolosa L, Caron J, Hannoun Z, Antoni M, López S, Burks D, Castell JV, Weber A, Gomez-Lechon MJ, Dubart-Kupperschmitt A. **Transplantation of hESC-derived hepatocytes protects mice from liver injury**. Stem Cell Res Ther. 2015 Dec 12;6:246. doi: 10.1186/s13287-015-0227-6.

Mayati, A., Bruyere, A., Moreau, A., Jouan, E., Denizot, C., Parmentier, Y., & Fardel, O. (2015). **Protein Kinase C-Independent Inhibition of Organic Cation Transporter 1 Activity by the Bisindolylmaleimide Ro 31-8220**. PloS one, 10(12).

Laurent Poirot, Brian Philip, Cécile Schiffer Mannioui, Diane Le Clerre, Isabelle Chion-Sotinel, Sophie Derniame, Pierrick Potrel, Cécile Bas, Laetitia Lemaire, Roman Galetto, Céline Lebuhotel, Justin Eyquem, Gordon Weng-Kit Cheung, Aymeric Duclert, Agnès Gouble, Sylvain Arnould, Karl Peggs, Martin Pule, Andrew M. Scharenberg, and Julianne Smith **Multiplex genome edited T-cell manufacturing platform for “off-the-shelf” adoptive T-cell immunotherapies**. July 16, 2015; Article number: DOI: 10.1158/0008-5472.CAN-14-3321

Chiara Bonfanti, Giuliana Rossi, Francesco Saverio Tedesco, Monica Giannotta, Sara Benedetti, Rossana Tonlorenzi, Stefania Antonini, Giovanna Marazzi, Elisabetta Dejana, David Sassoon, Giulio Cossu & Graziella Messina. **PW1/Peg3 expression regulates key properties that determine mesoangioblast stem cell competence**. Nature Communications, 2015, Article number: 6364 doi:10.1038/ncomms7364

Anna-Claire Devlin, Karen Burr, Shyamanga Borooah, Joshua D. Foster, Elaine M. Cleary, Imbisaat Geti, Ludovic Vallier, Christopher E. Shaw, Siddharthan Chandran & Gareth B. Miles. **Human iPSC-derived motoneurons harbouring TARDBP or C9ORF72 ALS mutations are dysfunctional despite maintaining viability**. Nature communications, Nature Communications 2015, Article number: 5999 doi:10.1038/ncomms/6999

Christine Barrault, Julien Garnier, Nathalie Pedretti, Sevda Cordier-Dirikoc, Emeline Ratineau, Alain Deguercy, François-Xavier Bernard. **Androgens induce sebaceous differentiation in sebocyte cells expressing a stable functional androgen receptor**. The Journal of Steroid Biochemistry and Molecular Biology doi:10.1016/j.jsbmb.2015.04.005

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William E. Dowdle, Jane Nagel, Shanming Liu, Ellen Triantafellow, Suchithra Menon, Zuncai Wang, Ayako Honda, Ivan Cornella-Taracido, Edmund Harrington, Peter Fekkes, Hong Lei, Qing Fang, Mary Ellen Digan, Debra Burdick, Andrew F. Powers, Henry Wang, Dmitri Wiederschain, Jenny Kuerth, Philip Bergman, David Schwalb, Jason Thomas, Savuth Ugwonal, Fred Harbinski, John Tallarico, Christopher J. Wilson, Vic E. Myer, Jeffery A. Porter, Peter M. Finan, Mark A. Labow, Xiaohong Mao, Lawrence G. Hamann, Reginald A. Valdez, Thomas Nicholson, Markus Schirle, Erin P. Keaney & Leon O. Murphy. **Selective VPS34 inhibitor blocks autophagy and uncovers a role for NCOA4 in ferritin degradation and iron homeostasis in vivo**. Nature Cell Biology 16, 1069–1079 (2014) doi:10.1038/ncb3053

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R Suspène, V Caval, M Henry, M S Bouzidi, S Wain-Hobson and J-P Vartanian. **Erroneous identification of APOBEC3-edited chromosomal DNA in cancer**. genomics British Journal of Cancer 110, 2615-2622 (13 May 2014) | doi:10.1038/bjc.2014.176

Alessandra De Robertis, Federica Mennillo, Marco Rossi, Silvia Valensin, Patrizia Tunici, Elisa Mori, Nicola Caradonna, Maurizio Varrone, Massimiliano Salerno. **Human Sarcoma Growth Is Sensitive to Small-Molecule Mediated AXIN Stabilization.** Published : May 19, 2014 DOI: 10.1371/journal.pone.0097847

H M Elbadawy, M Gailledrat, C Desseaux, G Salvalaio, E Di Iorio, B Ferrari, M Bertoli, V Barbaro, M Parekh, R Gayon, D Munegato, E Franchin, A Calistri, G Palù, C Parolin, D Ponzin and S Ferrari. **Gene transfer of integration defective anti-HSV-1 meganuclease to human corneas ex vivo.** Gene Therapy (2014) 21, 272–281; doi:10.1038/gt.2013.82; published online 16 January 2014.

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Bianka Mussil, Rodolphe Suspène, Marie-Ming Aynaud, Anne Gauvrit, Jean-Pierre Vartanian, Simon Wain-Hobson. **Human APOBEC3A Isoforms Translocate to the Nucleus and Induce DNA Double Strand Breaks Leading to Cell Stress and Death.** 2013, DOI: 10.1371/journal.pone.0073641

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