

## LIST OF PUBLICATIONS JEROME GOUTTENOIRE

### Original articles

1. Valcourt U, **Gouttenoire J**, Moustakas A, Herbage D, Mallein-Gerin F. Functions of TGF- $\beta$  family Type I receptors and Smad proteins in the hypertrophic maturation and osteoblastic differentiation of chondrocytes. *J Biol Chem* 2002;277:33545-33558.
2. Bluteau G, **Gouttenoire J**, Conrozier T, Mathieu P, Vignon E, Richard M, Herbage D, Mallein-Gerin F. Differential gene expression analysis in a rabbit model of osteoarthritis induced by anterior cruciate ligament section. *Biorheology* 2002;39:247-258.
3. Ronzière M-C, Roche S, **Gouttenoire J**, Herbage D, Freyria A-M. Ascorbate modulation of bovine chondrocyte growth, matrix protein gene expression and synthesis in three-dimensional collagen sponges. *Biomaterials* 2003;24:851-861.
4. Valcourt U\*, **Gouttenoire J\***, Aubert-Foucher E, Herbage D, Mallein-Gerin F. Alternative splicing of type II procollagen pre-mRNA in chondrocytes is oppositely regulated by BMP-2 and TGF- $\beta$ 1. *FEBS Lett.* 2003;545:115-119. (\* authors contributed equally)
5. **Gouttenoire J**, Valcourt U, Ronziere M-C, Aubert-Foucher E, Mallein-Gerin F, Herbage D. Modulation of collagen synthesis in normal and osteoarthritic cartilage. *Biorheology* 2004;41:535-542.
6. Ronziere M-C, Aubert-Foucher E, **Gouttenoire J**, Bernaud J, Herbage D, Mallein- Gerin F. Integrin alpha1beta1 mediates collagen induction of MMP-13 expression in MC615 chondrocytes. *Biochim Biophys Acta* 2005;1746:55-64.
7. Cortial D, **Gouttenoire J**, Rousseau C-F, Ronziere M-C, Piccardi N, Msika P, Herbage D, Mallein-Gerin F, Freyria A-M. Activation by IL-1 of bovine articular chondrocytes in culture within a 3D collagen-based scaffold - an *in vitro* model to address the effect of compounds with therapeutic potential in osteoarthritis. *Osteoarthritis Cartilage* 2006;14:631-640.
8. **Gouttenoire J**, Valcourt U, Bougault C, Aubert-Foucher E, Arnaud E, Giraud L, Mallein-Gerin F. Knockdown of the intraflagellar transport protein IFT46 stimulates selective gene expression in mouse chondrocytes and affects early development in zebrafish. *J Biol Chem* 2007;282:30960-30973.
9. Bellecave P, **Gouttenoire J**, Gajer M, Brass V, Koutsoudakis G, Blum HE, Bartenschlager R, Nassal M, Moradpour D. Hepatitis B and C virus coinfection: A novel model system reveals the absence of direct viral interference. *Hepatology* 2009;50:46-55.
10. **Gouttenoire J**, Castet V, Montserret R, Arora N, Raussens V, Ruyschaert JM, Diesis E, Blum HE, Penin F, Moradpour D. Identification of a novel determinant for membrane association in hepatitis C virus nonstructural protein 4B. *J Virol* 2009;83:6257-6268.
11. **Gouttenoire J**, Montserret R, Kennel A, Penin F, Moradpour D. An Amphipathic  $\alpha$ -helix at the C terminus of hepatitis C virus nonstructural protein 4B mediates membrane association. *J Virol* 2009;83:11378-11384.
12. Ripoli M, D'Aprile A, Quarato G, Sarasin-Filipowicz M, **Gouttenoire J**, Scrima R, Cela O, Boffoli D, Heim MH, Moradpour D, Capitanio N, Piccoli C. Hepatitis C virus-linked mitochondrial dysfunction promotes hypoxia-inducible factor 1  $\alpha$ -mediated glycolytic adaptation. *J Virol* 2010;84:647-660.

13. Bellecave P, Sarasin-Filipowicz M, Donzé O, Kennel A, **Gouttenoire J**, Meylan E, Terracciano L, Tschopp J, Sarrazin C, Berg T, Moradpour D, Heim MH. Cleavage of mitochondrial antiviral signaling protein in the liver of patients with chronic hepatitis C correlates with a reduced activation of the endogenous interferon system. *Hepatology* 2010;51:1127-1136.
14. **Gouttenoire J**, Bougault C, Aubert-Foucher E, Perrier E, Ronzière MC, Sandell L, Lundgren-Akerlund E, Mallein-Gerin F. BMP-2 and TGF- $\beta$ 1 differentially control expression of type II procollagen and  $\alpha$ 10 and  $\alpha$ 11 integrins in mouse chondrocytes. *Eur J Cell Biol* 2010;89:307-314.
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17. Jirasko V, Montserret R, Lee JY, **Gouttenoire J**, Moradpour D, Penin F, Bartenschlager R. Structural and Functional Studies of Nonstructural Protein 2 of the Hepatitis C virus reveal its key role as organizer of virion assembly. *PLoS Pathog* 2010;6:e1001233.
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22. Lange CM, Bellecave P, Dao Thi VL, Tran HT, Penin F, Moradpour D, **Gouttenoire J**. Determinants for membrane association of the hepatitis C virus NS2 protease domain. *J Virol* 2014;88:6519-6523.
23. Boukadida C, Marnata C, Montserret R, Cohen L, Blumen B, **Gouttenoire J**, Moradpour D, Penin F, Martin A. NS2 proteins of GB virus B and hepatitis C virus share common protease activities and membrane topologies. *J Virol*. 2014;88:7426-7444.
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  28. Welsch C, Haselow K, **Gouttenoire J**, Schneider M, Morikawa K, Martinez Y, Susser S, Sarrazin C, Zeuzem S, Antes I, Moradpour D, Lange CM. Hepatitis C virus variants resistant to macrocyclic NS3-4A protease inhibitors subvert IFN- $\beta$  induction by efficient MAVS cleavage. *J Hepatol* 2015;62:779-784.
  29. Dao Thi VL, Debing Y, Wu X, Rice CM, Neyts J, Moradpour D\*, **Gouttenoire J**\*. Sofosbuvir inhibits hepatitis E virus replication in vitro and results in an additive effect when combined with ribavirin. *Gastroenterology* 2016;150:82-85. (\* authors contributed equally)
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  32. Farhat R, Ankavay M, Lebsir N, **Gouttenoire J**, Jackson CL, Wychowski C, Moradpour D, Dubuisson J, Rouillé Y, Cocquerel L. Identification of GBF1 as a cellular factor required for hepatitis E virus RNA replication. *Cell Microbiol* 2018;20:e12804.
  33. Wu X\*, Dao Thi VL\*, Liu P, Takacs CN, Xiang K, Andrus L, **Gouttenoire J**, Moradpour D, Rice CM. Pan-genotype hepatitis E virus replication in stem cell-derived hepatocellular systems. *Gastroenterology* 2018;54:663-674.e7. (\* authors contributed equally)
  34. Saleh M\*, Welsch C\*, Cai C, Doehring C, **Gouttenoire J**, Friedrich J, Haselow K, Sarrazin C, Badenhop K, Moradpour D, Zeuzem S, Rueschenbaum S, Lange CM. Differential modulation of hepatocellular innate immune pathways by synthetic calcitriol analogs. *J Steroid Biochem Mol Biol* 2018;183:142-151. (\* authors contributed equally)
  35. Saleh M, Rüschenbaum S, Welsch C, Zeuzem S, Moradpour D, **Gouttenoire J**, Lange CM. Glycogen synthase kinase 3 $\beta$  enhances hepatitis C virus replication by supporting miR-122. *Frontiers in Microbiology* 2018;9:2949.
  36. **Gouttenoire J**\*, Pollán A, Abrami L, Oechslin N, Matter M, Dao Thi VL, Szkolnicka D, Oppliger J, Mauron J, van der Goot G, Moradpour D\*. Palmitoylation mediates membrane association of hepatitis E virus ORF3 protein and is required for infectious particle secretion. *PLoS Pathog* 2018;14:e1007471. (\* corresponding authors)
  37. Sahli R, Fraga M, Semela D, Moradpour D, **Gouttenoire J**. Rabbit HEV in Immunosuppressed Patients with Hepatitis E Acquired in Switzerland. *J Hepatol* 2019;70:1023-1025.

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39. Szkolnicka D, Pollán A, Da Silva N, Oechslin N, **Gouttenoire J\***, Moradpour D\*. Recombinant Hepatitis E Viruses Harboring Tags in the ORF1 Protein. *J Virol* 2019;93:e00459-19. (\* corresponding authors)

### Review articles

1. **Gouttenoire J**, Penin F, Moradpour D. Hepatitis C virus nonstructural protein 4B: a journey into unexplored territory. *Rev Med Virol* 2010;20:117-129.
2. Morikawa K, Lange CM, **Gouttenoire J**, Brass V, Penin F, Moradpour D. Nonstructural protein 3-4A: the Swiss army knife of hepatitis C virus. *J Viral Hepat* 2011;18:305-315.
3. Debing Y, Moradpour D, Neyts J, **Gouttenoire J**. Update on hepatitis E virology: Implications for clinical practice. *J Hepatol.* 2016;65:200-212.
4. Fraga M, **Gouttenoire J**, Sahli R, Moradpour D. Akute und chronische Hepatitis E. *Ther Umsch* 2017;74:109-113.

### Editorials

1. **Gouttenoire J**, Moradpour D, Penin F. Surprises from the crystal structure of the hepatitis C virus NS2-3 protease. *Hepatology* 2006;44:1690-1693.
2. **Gouttenoire J**, Moradpour D. A mouse model for hepatitis E virus infection. *J Hepatol.* 2016;64:1003-1005.
3. **Gouttenoire J**, Szkolnicka D, Moradpour D. Treatment of chronic hepatitis E with ribavirin: lessons from deep sequencing. *Gut* 2016;65:1583-1584.
4. Gilgenkrantz H, **Gouttenoire J**, Mallet V. Un modèle murin pour une infection chronique méconnue : l'hépatite E ! *Med Sci* 2016;32:812-814.
5. Oechslin N, Moradpour D, **Gouttenoire J**. Hepatitis E virus finds its path through the gut. *Gut* 2020: in press.

### Book chapters

1. Mallein-Gerin F and **Gouttenoire J**. RNA extraction from cartilage. In: *Cartilage and Osteoarthritis. Volume 1: Cellular and Molecular Tools*. Sabatini M, Pastoureau P and De Ceuninck F, eds. Humana Press, Totowa, NJ, 2004:101-104.
2. Mallein-Gerin F and **Gouttenoire J**. Gene expression analysis in cartilage by *in situ* hybridization. In: *Cartilage and Osteoarthritis. Volume 1: Cellular and Molecular Tools*. Sabatini M, Pastoureau P and De Ceuninck F, eds. Humana Press, Totowa, NJ, 2004:105-108.