

## Publications significatives de l'équipe de 2016 à 2021

### [What role for AHR activation in IL4I1-mediated immunosuppression ?](#)

Castellano F, Prevost-Blondel A, Cohen JL, Molinier-Frenkel V. *Oncoimmunology*. 2021 May 12;10(1):1924500. doi: 10.1080/2162402X.2021.1924500.PMID: 34026337 Free PMC article.

### [Editorial: Immunosuppressive Amino Acid Catabolizing Enzymes in Health and Disease.](#)

Castellano F, Correale J, Molinier-Frenkel V. *Front Immunol*. 2021 May 5;12:689864. doi: 10.3389/fimmu.2021.689864. eCollection 2021.PMID: 34025686 Free PMC article. No abstract available.

### [Viral genomic, metagenomic and human transcriptomic characterization and prediction of the clinical forms of COVID-19.](#)

Rodriguez C, de Prost N, Fourati S, Lamoureux C, Gricourt G, N'debi M, Canoui-Poittrine F, Désveaux I, Picard O, Demontant V, Trawinski E, Lepeule R, Surgers L, Vindrios W, Lelièvre JD, Mongardon N, Langeron O, Cohen JL, Mekontso-Dessap A, Woerther PL, Pawlotsky JM. *PLoS Pathog*. 2021 Mar 29;17(3):e1009416. doi: 10.1371/journal.ppat.1009416. eCollection 2021 Mar.PMID: 33780519 Free PMC article. Clinical Trial.

### [Nucleolin Targeting by N6L Inhibits Wnt/ \$\beta\$ -Catenin Pathway Activation in Pancreatic Ductal Adenocarcinoma.](#)

Raineri F, Bourgoïn-Voillard S, Cossutta M, Habert D, Ponzio M, Houpe C, Vallée B, Boniotto M, Chalabi-Dchar M, Bouvet P, Couvelard A, Cros J, Debesset A, Cohen JL, Courty J, Cascone I. *Cancers (Basel)*. 2021 Jun 15;13(12):2986. doi: 10.3390/cancers13122986.PMID: 34203710 Free PMC article.

### [Tumor stiffening reversion through collagen crosslinking inhibition improves T cell migration and anti-PD-1 treatment.](#)

Nicolas-Boluda A, Vaquero J, Vimeux L, Guilbert T, Barrin S, Kantari-Mimoun C, Ponzio M, Renault G, Deptula P, Pogoda K, Bucki R, Cascone I, Courty J, Fouassier L, Gazeau F, Donnadiou E. *Elife*. 2021 Jun 9;10:e58688. doi: 10.7554/eLife.58688.PMID: 34106045 Free PMC article.

### [Cell surface nucleolin as active bait for nanomedicine in cancer therapy: a promising option.](#)

Ferrara B, Belbekhouche S, Habert D, Houpe C, Vallée B, Bourgoïn-Voillard S, Cohen JL, Cascone I, Courty J. *Nanotechnology*. 2021 May 17;32(32). doi: 10.1088/1361-6528/abfb30.PMID: 33892482 Review.

### [Pharmacologic Normalization of Pancreatic Cancer-Associated Fibroblast Secretome Impairs Prometastatic Cross-Talk With Macrophages.](#)

Samain R, Brunel A, Douché T, Fanjul M, Cassant-Sourdy S, Rochotte J, Cros J, Neuzillet C, Raffenne J, Duluc C, Perraud A, Nigri J, Gigoux V, Bieche I, Ponzio M, Carpentier G, Cascone I, Tomasini R, Schmid HA, Mathonnet M, Nicolle R, Bousquet MP, Martineau Y, Pyronnet S, Jean C, Bousquet C. *Cell Mol Gastroenterol Hepatol*. 2021;11(5):1405-1436. doi: 10.1016/j.jcmgh.2021.01.008. Epub 2021 Jan 20.

### [Impact of pre-eclampsia on renal outcome in sickle cell disease patients.](#)

Boudhabhay I, Boutin E, Bartolucci P, Bornes MI, Habibi A, Lionnet F, Hertig A, Grimbert P, Stehlé T, El Karoui K, Sahali D, Fois E, Rémy P, Galacteros F, Haddad B, Canoui-Poittrine F, Lecarpentier E, Audard V. *Br J Haematol*. 2021 Jun 15. doi: 10.1111/bjh.17606. Online ahead of print.PMID: 34131893

**[HLA Desensitization in Solid Organ Transplantation: Anti-CD38 to Across the Immunological Barriers.](#)**

Joher N, Matignon M, Grimbert P. Front Immunol. 2021 May 20;12:688301. doi: 10.3389/fimmu.2021.688301. eCollection 2021.PMID: 34093594 Free PMC article. Review.

**[Infectious disease consultation is effective in boosting vaccine coverage in patients awaiting kidney transplantation: A French prospective study.](#)**

Runyo F, Matignon M, Audureau E, Vindrios W, Boueilh A, Gomart C, Grimbert P, Gallien S, Melica G. Transpl Infect Dis. 2021 Mar 27:e13607. doi: 10.1111/tid.13607. Online ahead of print.PMID: 33773002

**[Face transplantation: A longitudinal histological study focusing on chronic active and mucosal rejection in a series with long-term follow-up.](#)**

Moktefi A, Hivelin M, Grimbert P, Carmagnat M, Sbidian E, Papouin B, Suberbielle C, Wolkenstein P, Bosc R, Meningaud JP, Lantieri L, Ortonne N. Am J Transplant. 2021 Jan 14. doi: 10.1111/ajt.16489. Online ahead of print.PMID: 33445219

**[3-O-sulfated heparan sulfate interactors target synaptic adhesion molecules from neonatal mouse brain and inhibit neural activity and synaptogenesis in vitro.](#)**

Maïza A, Sidahmed-Adrar N, Michel PP, Carpentier G, Habert D, Dalle C, Redouane W, Hamza M, van Kuppevelt TH, Ouidja MO, Courty J, Chantepie S, Papy-Garcia D, Stettler O. Sci Rep. 2020 Nov 5;10(1):19114. doi: 10.1038/s41598-020-76030-4.PMID: 33154448 Free PMC article.

**[IL4I1 Accelerates the Expansion of Effector CD8+ T Cells at the Expense of Memory Precursors by Increasing the Threshold of T-Cell Activation.](#)**

Puiffe ML, Dupont A, Sako N, Gatineau J, Cohen JL, Mestivier D, Lebon A, Prévost-Blondel A, Castellano F, Molinier-Frenkel V. Front Immunol. 2020 Dec 4;11:600012. doi: 10.3389/fimmu.2020.600012. eCollection 2020.PMID: 33343572 Free PMC article.

**[Fabrication of large pore mesoporous silica microspheres by salt-assisted spray-drying method for enhanced antibacterial activity and pancreatic cancer treatment.](#)**

Belbekhouche S, Poostforooshan J, Shaban M, Ferrara B, Alphonse V, Cascone I, Bousserhine N, Courty J, Weber AP. Int J Pharm. 2020 Nov 30;590:119930. doi: 10.1016/j.ijpharm.2020.119930. Epub 2020 Sep 30.PMID: 33010394

**[Iron Oxide Nanoparticles as Carriers for DOX and Magnetic Hyperthermia after Intratumoral Application into Breast Cancer in Mice: Impact and Future Perspectives.](#)**

Piehler S, Dähling H, Grandke J, Göring J, Couleaud P, Aires A, Cortajarena AL, Courty J, Latorre A, Somoza Á, Teichgräber U, Hilger I. Nanomaterials (Basel). 2020 May 26;10(6):1016. doi: 10.3390/nano10061016.PMID: 32466552 Free PMC article

**[Control of T-Cell Activation and Signaling by Amino-Acid Catabolizing Enzymes.](#)**

Castellano F, Molinier-Frenkel V. Front Cell Dev Biol. 2020 Dec 17;8:613416. doi: 10.3389/fcell.2020.613416. eCollection 2020.PMID: 33392202 Free PMC article

**[Antagonist of nucleolin, N6L, inhibits neovascularization in mouse models of retinopathies.](#)**

Darche M, Cossutta M, Caruana L, Houppé C, Gilles ME, Habert D, Guilloneau X, Vignaud L, Paques M, Courty J, Cascone I. FASEB J. 2020 Apr;34(4):5851-5862. doi: 10.1096/fj.201901876R. Epub 2020 Mar 5.PMID: 32141122

**[Aerosol-Assisted Synthesis of Tailor-Made Hollow Mesoporous Silica Microspheres for Controlled Release of Antibacterial and Anticancer Agents.](#)**

Poostforooshan J, Belbekhouche S, Shaban M, Alphonse V, Habert D, Bousserhine N, Courty J, Weber AP. ACS Appl Mater Interfaces. 2020 Feb 12;12(6):6885-6898. doi: 10.1021/acsami.9b20510. Epub 2020 Jan 31. PMID: 31967774

**[Identification of inhibitors of the immunosuppressive enzyme IL411.](#)**

Presset M, Djordjevic D, Dupont A, Le Gall E, Molinier-Frenkel V, Castellano F. Bioorg Chem. 2020 Jan;94:103463. doi: 10.1016/j.bioorg.2019.103463. Epub 2019 Nov 23. PMID: 31812258

**[The Nucleolin Antagonist N6L Inhibits LINE1 Retrotransposon Activity in Non-Small Cell Lung Carcinoma Cells.](#)**

Ramos KS, Moore S, Runge I, Tavera-Garcia MA, Cascone I, Courty J, Reyes-Reyes EM. J Cancer. 2020 Jan 1;11(3):733-740. doi: 10.7150/jca.37776. eCollection 2020. PMID: 31942196 Free PMC article.

**[The TNF/TNFR2 signaling pathway is a key regulatory factor in endothelial progenitor cell immunosuppressive effect.](#)**

Naserian S, Abdelgawad ME, Afshar Bakshloo M, Ha G, Arouche N, Cohen JL, Salomon BL, Uzan G. Cell Commun Signal. 2020 Jun 16;18(1):94. doi: 10.1186/s12964-020-00564-3. PMID: 32546175 Free PMC article.

**[Transient antibody targeting of CD45RC inhibits the development of graft-versus-host disease.](#)**

Boucault L, Lopez Robles MD, Thiolat A, Bézie S, Schmueck-Henneresse M, Braudeau C, Vimond N, Freuchet A, Autrusseau E, Charlotte F, Redjoul R, Beckerich F, Leclerc M, Piaggio E, Josien R, Volk HD, Maury S, Cohen JL, Anegon I, Guillonneau C. Blood Adv. 2020 Jun 9;4(11):2501-2515. doi: 10.1182/bloodadvances.2020001688. PMID: 32511714 Free PMC article.

**[Phenotypic and Transcriptomic Lymphocytes Changes in Allograft Recipients After Intravenous Immunoglobulin Therapy in Kidney Transplant Recipients.](#)**

Pilon C, Bigot J, Grondin C, Thiolat A, Lang P, Cohen JL, Grimbert P, Matignon M. Front Immunol. 2020 Jan 24;11:34. doi: 10.3389/fimmu.2020.00034. eCollection 2020. PMID: 32038663 Free PMC article.

**[Human Apoptotic Cells, Generated by Extracorporeal Photopheresis, Modulate Allogeneic Immune Response.](#)**

Pilon C, Stehlé T, Beldi-Ferchiou A, Matignon M, Thiolat A, Burlion A, Grondin C, Birebent B, Pirenne F, Rouard H, Lang P, Marodon G, Grimbert P, Cohen JL. Front Immunol. 2019 Dec 18;10:2908. doi: 10.3389/fimmu.2019.02908. eCollection 2019. PMID: 31921167 Free PMC article.

**[First human facial retransplantation: 30-month follow-up.](#)**

Lantieri L, Cholley B, Lemogne C, Guillemain R, Ortonne N, Grimbert P, Thervet E, Lellouch AG. Lancet. 2020 Nov 28;396(10264):1758-1765. doi: 10.1016/S0140-6736(20)32438-7. PMID: 33248497

**[An initial report from the French SOT COVID Registry suggests high mortality due to COVID-19 in recipients of kidney transplants.](#)**

Caillard S, Anglicheau D, Matignon M, Durrbach A, Greze C, Frimat L, Thauinat O, Legris T, Moal V, Westeel PF, Kamar N, Gatault P, Snanoudj R, Sicard A, Bertrand D, Colosio C, Couzi L, Chemouny JM, Masset C, Blancho G, Bamoulid J, Duveau A, Bouvier N, Chavarot N, Grimbert P, Moulin B, Le Meur Y, Hazzan M; French SOT COVID Registry. Kidney Int. 2020 Dec;98(6):1549-1558. doi: 10.1016/j.kint.2020.08.005. Epub 2020 Aug 24. PMID: 32853631 Free PMC article.

**[Weibel-Palade Bodies Orchestrate Pericytes During Angiogenesis.](#)**

Cossutta M, Darche M, Carpentier G, Houppe C, Ponzo M, Raineri F, Vallée B, Gilles ME, Villain D, Picard E, Casari C, Denis C, Paques M, Courty J, Cascone I. *Arterioscler Thromb Vasc Biol.* 2019 Sep;39(9):1843-1858.

**[Daratumumab in Sensitized Kidney Transplantation: Potentials and Limitations of Experimental and Clinical Use.](#)**

Kwun J, Matignon M, Manook M, Guendouz S, Audard V, Kheav D, Poullot E, Gautreau C, Ezekian B, Bodez D, Damy T, Faivre L, Menouch D, Yoon J, Park J, Belhadj K, Chen D, Bilewski AM, Yi JS, Collins B, Stegall M, Farris AB, Knechtle S, Grimbert P. *J Am Soc Nephrol.* 2019 Jul;30(7):1206-1219.

**[Control of Humoral Response in Renal Transplantation by Belatacept Depends on a Direct Effect on B Cells and Impaired T Follicular Helper-B Cell Crosstalk.](#)**

Leibler C, Thiolat A, Hénique C, Samson C, Pilon C, Tamagne M, Pirenne F, Vingert B, Cohen JL, Grimbert P. *J Am Soc Nephrol.* 2018 Mar;29(3):1049-1062.

**[IL4-induced gene 1 is secreted at the immune synapse and modulates TCR activation independently of its enzymatic activity.](#)**

Aubatin A, Sako N, Decrouy X, Donnadiou E, Molinier-Frenkel V, Castellano F. *Eur J Immunol.* 2018 Jan;48(1):106-119.

**[The IL4I1 enzyme: a new player in the immunosuppressive tumor microenvironment.](#)**

Molinier-Frenkel V, Prévost-Blondel A and Castellano F. *Cells.* 2019 Jul 20;8(7)

**[Rituximab in B-Lineage Adult Acute Lymphoblastic Leukemia.](#)**

Maury S, Chevret S, Thomas X, Heim D, Leguay T, Hugué F, Chevallier P, Hunault M, Boissel N, Escoffre-Barbe M, Hess U, Vey N, Pignon JM, Braun T, Marolleau JP, Cahn JY, Chalandon Y, Lhéritier V, Beldjord K, Béné MC, Ifrah N, Dombret H; for GRAALL. *N Engl J Med.* 2016 Sep 15;375(11):1044-53. doi: 10.1056/NEJMoa1605085.

**[Control of GVHD by regulatory T cells depends on TNF produced by T cells and TNFR2 expressed by regulatory T cells.](#)**

Leclerc M, Naserian S, Pilon C, Thiolat A, Martin GH, Pouchy C, Dominique C, Belkacemi Y, Charlotte F, Maury S, Salomon BL, Cohen JL. *Blood.* 2016 Sep 22;128(12):1651-9.

**[Nucleolin Targeting Impairs the Progression of Pancreatic Cancer and Promotes the Normalization of Tumor Vasculature.](#)**

Gilles ME, Maione F, Cossutta M, Carpentier G, Caruana L, Di Maria S, Houppe C, Destouches D, Shchors K, Prochasson C, Mongelard F, Lamba S, Bardelli A, Bouvet P, Couvelard A, Courty J, Giraudo E, Cascone I. *Cancer Res.* 2016 Dec 15;76(24):7181-7193.