

Publications 2022 INFINITY : Institut Toulousain des Maladies Infectieuses et Inflammatoires

Epp JC Guéry: Sex Differences in immunity : mechanisms and pathophysiology

Miquel CH, Faz-Lopez B, and Guéry JC. *The role of X chromosome in sex-biased autoimmune diseases.* **J. Autoimmun.** (accepted)

Anesi N, Miquel CH, Laffont S, and Guéry JC. *The influence of sex hormones and X chromosome in immune responses.* **Current Topics in Microbiology and Immunology** (accepted)

Giang N, Villeneuve T, Maire K, Mejia JE, Guéry JC, Pelletier L, Savignac M. *PKC α interacts with Cav1.3 calcium channels to promote the Cav1.2/Cav1.3 duo tuning Th2 functions.* **Allergy** 2022 Dec 7. doi: 10.1111/all.15611. Online ahead of print.

Abbas F, Cenac C, Youness A, Azar P, Delobel P, Guéry JC. *HIV-1 infection enhances innate function and TLR7 expression in female plasmacytoid dendritic cells.* **Life Sci. Alliance** 2022 Sep 2; 5(10): e202201452. doi.org/10.26508/lsa.202201452.

Congy-Jolivet N,* Cenac C,* Dellacasagrande J, Puissant-Lubrano B, André Apoil P, Guedj K, Abbas F, Laffont S, Sourdet S, Guyonnet S, Nourhashemi F, Guéry JC#, and Blancher A#. *Monocytes are the main source of STING-mediated IFN- α production.* **EBioMedicine** 2022 Jun;80:104047. doi: 10.1016/j.ebiom.2022.104047. Epub 2022 May 10. PMID: 35561451
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Corral D, Charton A, Krauss MZ, Blanquart E, Levillain F, Lefrançois E, Sneider T, Valhas Z, Girard JP, Eberl G, Poquet Y, Guéry JC, Arguello RJ, Belkaid Y, Mayer-Barber KD, Hepworth MR, Neyrolles O, Hudrisier D. *Metabolic regulation of ILC precursors differentiation into ILC1-like cells during Mycobacterium tuberculosis infection.* **Cell Reports** 2022 Apr 19; 39(3):110715. doi: 10.1016/j.celrep.2022.110715. PMID: 35443177

Giang N, Mars M, Moreau M, Bouchaud G, Magnan A, Brémont F, Ronsin B, Murphy GG, Striessnig J, Guéry JC, Pelletier L, Savignac M. *Separation of the Cav1.2-Cav1.3 calcium channel duo prevents type-2 allergic airway inflammation.* **Allergy** 2022 Feb;77(2):525-539. doi: 10.1111/all.14993. Epub 2021 Jul 9. PMID: 34181765.

Mars M, Néant I, Leclerc C, Bosch S, Rouviere C, Moreau M, Lachambre S, Paul C, Tauber M, Gravier E, Douzal C, Duplan H, Babin M, Brocario A, Thouvenin MD, Guéry JC, Redoules D, Lestienne F, Pelletier L, Savignac M. *Ca_v1.4 calcium channels control cytokine production by human peripheral T_H17 cells and psoriatic skin-infiltrating T cells.* **J Allergy Clin Immunol.** 2022;149(4):1348-1357. doi: 10.1016/j.jaci.2021.09.030. Epub 2021 Oct 13. PMID: 34653514
Pelletier L, Savignac M. *[Ca_v1.4 calcium channels in the pathophysiology of psoriasis: A new therapeutic target].* **Med Sci (Paris).** 2022;38(8-9):634-636. doi: 10.1051/medsci/2022091. Epub 2022 Sep 12. PMID: 36094228

Cenac C, Ducatez M, Guéry JC. *Hydroxychloroquine inhibits proteolytic processing of endogenous TLR7 protein in human primary plasmacytoid dendritic cells.* **Eur J Immunol** 2022 Jan;52(1):54-61. doi: 10.1002/eji.202149361. pub 2021 Oct 21. PMID: 34580855

Blanquart E, Mandonnet A, Cenac C, Anesi N, Mercier P, Audouard C, Roga S, Serrano de Almeida G, Bevan C, Girard JP, Pelletier L, Laffont S, Guéry, JC. *Targeting androgen-signaling in ILC2s protects from IL-33-driven lung inflammation, independently of KLRG1.* **J Allergy Clin Immunol.** 2022 Jan;149(1):237-251.e12. doi: 10.1016/j.jaci.2021.04.029. Epub 2021 May 5. PMID: 33964300

Publications CHU Cliniques Y Renaudineau et A Blancher.

Arleevskaya MI, Boulygina EA, Larionova R, Validov S, Kravtsova O, Shagimardanova EI, Velo L, Hery-Arnaud G, Carlé C, Renaudineau Y. *Anti-Citrullinated Peptide Antibodies Control Oral Porphyromonas and Aggregatibacter species in Patients with Rheumatoid Arthritis.* **Int J Mol Sci.** 2022 Oct 20;23(20):12599. doi: 10.3390/ijms232012599. PMID: 36293451; PMCID: PMC9604485.

Faguer S, Del Bello A, Danet C, Renaudineau Y, Izopet J, Kamar N. *Apolipoprotein-A-I for severe COVID-19-induced hyperinflammatory states: A prospective case study.* **Front Pharmacol.** 2022 Sep 26;13:936659. doi:10.3389/fphar.2022.936659. PMID: 36225555; PMCID: PMC9550000.

Puissant-Lubrano B, Bouthemy C, Congy-Jolivet N, Milhes J, Minville V, Kamar N, Demini L, Zal F, Renaudineau Y. *The oxygen carrier M101 alleviates complement activation, which may be beneficial for donor organ preservation.* **Front Immunol.** 2022 Sep 12;13:1006761. doi: 10.3389/fimmu.2022.1006761. PMID: 36172347; PMCID: PMC9511029.

Renaudineau Y, Sailer L, Abravanel F, Izopet J, Delourme A, Biotti D, Ciron J, Treiner E, Congy-Jolivet N, Bost C, Blancher A. *Glucocorticoid use as a cause of non-cellular immune response to SARS-Cov2 Spike in patients with immune system diseases.* **J Autoimmun.** 2022 Sep 12;133:102912. doi: 10.1016/j.jaut.2022.102912. Epub ahead of print. PMID: 36115213; PMCID: PMC9464584.

Brooks WH, Arleevskaya MI, Renaudineau Y. *Editorial: Epigenetic aspects of autoimmune diseases.* **Front Cell Dev Biol.** 2022 Aug 11;10:991693. doi:10.3389/fcell.2022.991693. PMID: 36036004; PMCID: PMC9403892.

Arleevskaya M, Takha E, Petrov S, Kazarian G, Renaudineau Y, Brooks W, Larionova R, Korovina M, Valeeva A, Shuralev E, Mukminov M, Kravtsova O, Novikov A. *Interplay of Environmental, Individual and Genetic Factors in Rheumatoid Arthritis Provocation.* **Int J Mol Sci.** 2022 Jul 23;23(15):8140. doi: 10.3390/ijms23158140. PMID: 35897715; PMCID: PMC9329780.

Marlas M, Bost C, Dorcet G, Delourme A, Biotti D, Ciron J, Renaudineau Y, Puissant-Lubrano B. *Kappa-index: Real-life evaluation of a new tool for multiple sclerosis diagnosis.* **Clin Immunol.** 2022 Aug;241:109066. doi: 10.1016/j.clim.2022.109066. Epub 2022 Jun 12. PMID: 35705146.

Larionova R, Byvaltsev K, Kravtsova O, Takha E, Petrov S, Kazarian G, Valeeva A, Shuralev E, Mukminov M, Renaudineau Y, Arleevskaya M. SARS-Cov2 acute and post-active infection in the context of autoimmune and chronic inflammatory diseases. **J Transl Autoimmun.** 2022;5:100154. doi: 10.1016/j.jtauto.2022.100154. Epub 2022 Apr 12. PMID: 35434592; PMCID: PMC9005220.

Bories E, Fortenfant F, Pugnet G, Renaudineau Y, Bost C. Myositis-specific autoantibodies in clinical practice: Improving the performance of the immunodot. **Semin Arthritis Rheum.** 2022 Aug;55:151998. doi:10.1016/j.semarthrit.2022.151998. Epub 2022 Mar 29. PMID: 35427882.

Renaudineau Y, Abravanel F, Izopet J, Bost C, Treiner E, Congy N, Blancher A. Novel T cell interferon gamma release assay (IGRA) using spike recombinant protein for COVID19 vaccine response and Nucleocapsid for SARS-Cov2 response. **Clin Immunol.** 2022 Apr;237:108979. doi: 10.1016/j.clim.2022.108979. Epub 2022Mar 14. PMID: 35301104; PMCID: PMC8920083.

Bost C, Arleevskaya MI, Brooks WH, Plaza S, Guery JC, Renaudineau Y. Long non-coding RNA Xist contribution in systemic lupus erythematosus and rheumatoid arthritis. **Clin Immunol.** 2022 Mar;236:108937. doi: 10.1016/j.clim.2022.108937. Epub 2022 Jan 31. PMID: 35114365.

Zachou K, Arvaniti P, Lyberopoulou A, Sevdali E, Speletas M, Ioannou M, Koukoulis GK, Renaudineau Y, Dalekos GN. Altered DNA methylation pattern characterizes the peripheral immune cells of patients with autoimmune hepatitis. **Liver Int.** 2022 Jun;42(6):1355-1368. doi: 10.1111/liv.15176. Epub 2022 Feb 17. PMID: 35108441.

Meijer L, Hery-Arnaud G, Leven C, Nowak E, Hillion S, Renaudineau Y, Durieu I, Chiron R, Prevotat A, Fajac I, Hubert D, Murriss-Espin M, Hugué S, Danner-Boucher I, Ravoninjatovo B, Leroy S, Macey J, Urban T, Rault G, Mottier D, Berre RL. Safety and pharmacokinetics of Roscovitine (Seliciclib) in cystic fibrosis patients chronically infected with *Pseudomonas aeruginosa*, a randomized, placebo-controlled study. **J Cyst Fibros.** 2022 May;21(3):529-536. doi: 10.1016/j.jcf.2021.10.013. Epub 2021 Dec 24. PMID: 34961705.

Carlé C, Fortenfant F, Tauber M, Tournier E, Paul C, Bost C, Renaudineau Y. Lupus band test can be used in combination with anti-chromatin antibodies and complement analysis to predict transition from cutaneous to systemic lupus. **Clin Immunol.** 2022 Jan;234:108908. doi: 10.1016/j.clim.2021.108908. Epub 2021 Dec 8. PMID: 34896318.

Bagacean C, Iuga CA, Bordron A, Tempescul A, Pralea IE, Bernard D, Cornen M, Bergot T, Le Dantec C, Brooks W, Saad H, Ianotto JC, Pers JO, Zdrenghea M, Berthou C, Renaudineau Y. Identification of altered cell signaling pathways using proteomic profiling in stable and progressive chronic lymphocytic leukemia. **J Leukoc Biol.** 2022 Feb;111(2):313-325. doi: 10.1002/JLB.4HI0620-392R. Epub 2021 Jul 20. PMID: 34288092.

Carapito R, Aouadi I, Verniquet M, Untrau M, Pichot A, Beaudrey T, Bassand X, Meyer S, Faucher L, Posson J, Morlon A, Kotova I, Delbos F, Walencik A, Aarnink A, Kennel A, Suberbielle C, Taupin JL, Matern BM, Spierings E, Congy-Jolivet N, Essaydi A, Perrin P, Blancher A, Charron D, Cereb N, Maumy-Bertrand M, Bertran F, Garrigue V, Pernin V, Weekers L, Naesens M, Kamar N, Legendre C, Glotz D, Caillard S, Ladrière M, Giral M, Anglicheau D, Süsal C, Bahram S. The MHC class I MICA gene is a histocompatibility antigen in kidney transplantation. **Nat Med.** 2022 May;28(5):989-998. doi: 10.1038/s41591-022-01725-2. Epub 2022 Mar 14. PMID: 35288692; PMCID: PMC9117142.

Dorcet G, Benaiteau M, Ory-Magne F, Blancher A, Pariente J, Fortenfant F, Bost C. *Case Report: Presence of Anti-MAG in the CSF Can Be Associated With a Neurodegenerative Process With Frontal Involvement*. **Front Neurol**. 2022 May 25;13:847798. doi: 10.3389/fneur.2022.847798. PMID: 35693016; PMCID: PMC9176167.

Carapito R, Aouadi I, Verniquet M, Untrau M, Pichot A, Beaudrey T, Bassand X, Meyer S, Faucher L, Posson J, Morlon A, Kotova I, Delbos F, Walencik A, Aarnink A, Kennel A, Suberbielle C, Taupin JL, Matern BM, Spierings E, Congy-Jolivet N, Essaydi A, Perrin P, Blancher A, Charron D, Cereb N, Maumy-Bertrand M, Bertrand F, Garrigue V, Pernin V, Weekers L, Naesens M, Kamar N, Legendre C, Glotz D, Caillard S, Ladrière M, Giral M, Anglicheau D, Süsal C, Bahram S. *The MHC class I MICA gene is a histocompatibility antigen in kidney transplantation*. **Nat Med**. 2022 May;28(5):989-998. doi: 10.1038/s41591-022-01725-2. Epub 2022 Mar 14.

Eqp Michel Simon : **Epidermal Barrier and keratinocyte differentiation: from normal skin to skin inflammatory diseases**

Scientific articles with first and/or last authorship

Lupasco T, He Z, Cassagne M, Sagnial T, Brion L, Fournié P, Gain P, Thuret G, Allouche M, Malecaze F, Simon M, Galiacy SD. *Corneal epithelium in keratoconus underexpresses active NRF2 and a subset of oxidative stress-related genes*. **PLoS One**. 17(10):e0273807. 2022. doi: 10.1371/journal.pone.0273807.

Marches A, Clement E, Albérola G, Rols MP, Cousty S, Simon M, Merbahi N. *Cold Atmospheric Plasma Jet Treatment Improves Human Keratinocyte Migration and Wound Closure Capacity without Causing Cellular Oxidative Stress*. **Int J Mol Sci**. 23(18):10650. 2022. doi: 10.3390/ijms231810650.

Scientific articles in collaboration

Padhi A, Srivastava A, Ramesh A, Ehrström M, Simon M, Sonkoly E, Eidsmo L, Bergman P, Lysell J. *IL-22 downregulates peptidylarginine deiminase-1 in human keratinocytes: adding another piece to the IL-22 puzzle in epidermal barrier formation*. **J Invest Dermatol**. 142(2):333-342.e6. 2022. doi: 10.1016/j.jid.2021.07.155.

Rabionet M, Bernard P, Pichery M, Marsching C, Bayerle A, Dworski S, Kamani MA, Chitraju C, Gluchowski NL, Gabriel KR, Asadi A, Ebel P, Hoekstra M, Dumas S, Ntambi JM, Jacobsson A, Willecke K, Medin JA, Jonca N, Sandhoff R. *Epidermal 1-O-acylceramides appear with the establishment of the water permeability barrier in mice and are produced by maturing keratinocytes*. **Lipids**. 57(3):183-195. 2022. doi: 10.1002/lipd.12342 .

Basmanav FB, Cesarato N, Kumar S, Borisov O, Kokordelis P, Ralser DJ, Wehner M, Axt D, Xiong X, Thiele H, Dolgin V, Gossmann Y, Fricker N, Dewenter MK, Weller K, Suri M, Reichenbach H, Oji V, Addor MC, Ramirez K, Stewart H, Garcia Bartels N, Weibel L, Wagner N, George S, Kilic A, Tantcheva-Poor I, Stewart A, Dikow N, Blaumeiser B, Medvecz M, Blume-Peytavi U, Farrant P, Grimalt R, Bertok S, Bradley L, Eskin-Schwartz M, Birk OS, Bygum A, Simon M, Krawitz P, Fischer C, Hamm H, Fritz G, Betz RC. *Assessment of the Genetic Spectrum of Uncombable Hair Syndrome in a Cohort of 107 Individuals*. **JAMA Dermatol**. 158(11):1245-1253. 2022. doi: 10.1001/jamadermatol.2022.2319.

Cadau S, Gault M, Berthelemy N, Hsu CY, Danoux L, Pelletier N, Goudounèche D, Pons C, Leprince C, André-Frei V, Simon M, Pain S. *An Inflamed and Infected Reconstructed Human Epidermis to Study Atopic Dermatitis and Skin Care Ingredients*. **Int J Mol Sci**. 23(21):12880. 2022. doi: 10.3390/ijms232112880.

Gouarderes S, Marches A, Vicendo P, Fourquaux I, Simon M, Merbahi N, Gibot L. *Cold helium plasma jet does not stimulate collagen remodeling in a 3D human dermal substitute*. **Bioelectrochemistry**. 143:107985. 2022. doi: 10.1016/j.bioelechem.2021.107985.

Henriet E, Abdallah F, Laurent Y, Guimpied C, Clement E, Simon M, Pichon C, Baril P. *Targeting TGF- β 1/miR-21 pathway in keratinocytes reveals protective effects of silymarin on imiquimod-induced psoriasis mouse model*. **J Invest Dermatol Innov**, in press, 2022.

Review articles

Joosten MDW, Clabbers JMK, Jonca N, Mazereeuw-Hautier J, Gostyński AH. *New developments in the molecular treatment of ichthyosis: review of the literature*. **Orphanet J Rare Dis**. 17(1):269. 2022. doi: 10.1186/s13023-022-02430-6.

Kychygina A, Cassagne M, Tauber M, Galiacy S, Paul C, Fournié P, Simon M. *Dupilumab-Associated Adverse Events During Treatment of Allergic Diseases*. **Clin Rev Allergy Immunol**. 62(3):519-533. 2022. doi: 10.1007/s12016-022-08934-0.

Moosbrugger-Martinz V, Leprince C, Méchin MC, Simon M, Blunder S, Gruber R, Dubrac S. *Revisiting the Roles of Filaggrin in Atopic Dermatitis*. **Int J Mol Sci**. 23(10):5318. 2022. doi: 10.3390/ijms23105318

Clinical articles

Lecru LA, Combarros D, Moog F, Marinovic L, Kondratjeva J, Amalric N, Pressanti C, Cadiergues MC. *Multiplex Cytokine Analyses in Ear Canals of Dogs Suggest Involvement of IL-8 Chemokine in Atopic Otitis and Otodectic Mange-Preliminary Results*. **Animals** (Basel). 12(5):575. 2022. doi: 10.3390/ani12050575.

Bruet V, Mosca M, Briand A, Bourdeau P, Pin D, Cochet-Faivre N, Cadiergues MC. *Clinical Guidelines for the Use of Antipruritic Drugs in the Control of the Most Frequent Pruritic Skin Diseases in Dogs*. **Vet Sci**. 9(4):149. 2022. doi: 10.3390/vetsci9040149

Lasek A, Bellon N, Mallet S, Puzenat E, Bursztejn AC, Abasq C, Mazereeuw-Hautier J, Chiaverini C, Hubiche T, Raison Peyron N, Du Thanh A, Barbarot S, Aubert H, Reguiat Z, Droitcourt C, Fievet C, Bellissen A, Bachelier M, Nosbaum A, Leymarie A, Armingaud P, Masson Regnault M, Mahé E; Research Group of the Société Française de Dermatologie Pédiatrique (GR SFDP); Research Group of eczéma atopique (GREAT). *Effectiveness and safety of dupilumab in the treatment of atopic dermatitis in children (6-11 years): data from a French multicentre retrospective cohort in daily practice*. **J Eur Acad Dermatol Venereol**. 36(12):2423-2429. 2022. doi: 10.1111/jdv.18450.

Debourdeau E, Planells G, Chamard C, Touboul D, Villain M, Demoly P, Babeau F, Fournie P, Daien V. *New Keratoconus Risk Factors: A Cross-Sectional Case-Control Study*. **J Ophthalmol**. 2022:6605771. 2022. doi: 10.1155/2022/6605771.

Crépy MN, Bensefa-Colas L, Aubin F, Simon M, Soria A; French research group for atopic dermatitis (Groupe de Recherche sur l'Eczéma Atopique) in collaboration with the French Society of Dermatology and Venereology, French Society of Allergology, French Society of Pediatrics and French Society of Occupational Medicine. *Vocational Guidance for Young Patients with Atopic Dermatitis: A Survey of Physicians' Opinions and Practices*. **Acta Derm Venereol**. 102:adv00671. 2022. doi: 10.2340/actadv.v102.205

Revues

Simon M. *Différenciation kératinocytaire, atonie et sénescence.* In Biologie cutanée – Cobip 2021, M. Haftek. Editions Matrix, LYON, pp45-63, 2022.

Publications effectuées dans le cadre de congrès internationaux

J. Briot, E. Arbey, D. Bernard, M. Simon, M. Mechin. *Is the proteasome activity involved in filaggrin breakdown?* **J Invest Dermatol.** 142(12, S215):204. 2022. doi:https://doi.org/10.1016/j.jid.2022.09.215

P. Bernard, N. Pell-Vidal, S. Courrech, J. Mazereeuw-Hautier, N. Jonca. *A case report illustrating the problem of VUS identification in the genetic diagnosis of congenital ichthyosis?* **J Invest Dermatol.** 142(12, S215):308. 2022. doi:https://doi.org/10.1016/j.jid.2022.09.320

Eqp Nicolas Gaudenzio: **Normal regulation of immune response**

Gaudenzio N, Basso L. *Mast cell-neuron axis in allergy.* **Curr Opin Immunol.** 2022 Aug;77:102213. doi: 10.1016/j.coi.2022.102213. Epub 2022 May 20. PMID: 35605523 Review.

Gaudenzio N, Liblau RS. * *Immune cells impede repair of old neurons.* **Science.** 2022 May 13;376(6594):694-695. doi: 10.1126/science.abp9878. Epub 2022 May 12. PMID: 35549427

Westerlind H, Kastbom A, Rönnelid J, Hansson M, Alfredsson L, Mathsson-Alm L, Serre G, Cornillet M, Holmdahl R, Skriner K, Bang H, Klareskog L, Saevarsdottir S, Lundberg K, Grönwall C, Askling *The association between autoantibodies and risk for venous thromboembolic events among patients with rheumatoid arthritis.* **J. Rheumatology (Oxford).** 2022 Oct 18;keac601. doi: 10.1093/rheumatology/keac601. Online ahead of print. PMID: 36255271

Brink M, Ljung L, Hansson M, Rönnelid J, Holmdahl R, Skriner K, Serre G, Klareskog L, Rantapää-Dahlqvist S. * *Anti-citrullinated protein antibody specificities and pulmonary fibrosis in relation to genetic loci in early rheumatoid arthritis.* **Rheumatology (Oxford).** 2022 Nov 28;61(12):4985-4990. doi: 10.1093/rheumatology/keac280. PMID: 35532073

Defaye M, Iftinca MC, Gadotti VM, Basso L, Abdullah NS, Cuménal M, Agosti F, Hassan A, Flynn R, Martin J, Soubeyre V, Poulen G, Lonjon N, Vachery-Lahaye F, Bauchet L, Mery PF, Bourinet E, Zamponi GW, Altier C. *The neuronal tyrosine kinase receptor ligand ALKAL2 mediates persistent pain.* **J Clin Invest.** 2022 Jun 15;132(12):e154317. doi: 10.1172/JCI154317. PMID: 35608912

Mas-Orea X, Basso L, Blanpied C, Gaveriaux-Ruff C, Cenac N, Dietrich G. *Delta opioid receptors on nociceptive sensory neurons mediate peripheral endogenous analgesia in colitis.* **J Neuroinflammation.** 2022 Jan 6;19(1):7. doi: 10.1186/s12974-021-02352-3. PMID: 34991641

Eqp Abdelhadi Saoudi / Roland Liblau: **Inflammatory diseases of the central nervous system: mechanisms and therapies**

Bernard-Valnet R, Frieser D, Nguyen XH, Khajavi L, Quériault C, Arthaud S, Melzi S, Fusade-Boyer M, Masson F, Zytnicki M, Saoudi A, Dauvilliers Y, Peyron C, Bauer J, Liblau RS. *Influenza vaccination induces autoimmunity against orexinergic neurons in a mouse model for narcolepsy.* **Brain.** 2022 Jun 30;145(6):2018-2030. doi: 10.1093/brain/awab455.

Yang C, Blaize G, Marrocco R, Rouquié N, Bories C, Gador M, Mélique S, Joulia E, Benamar M, Dejean AS, Daniels-Treffandier H, Love PE, Fazilleau N, Saoudi A, Lesourne R. *THEMIS enhances the magnitude of normal and neuroinflammatory type 1 immune responses by promoting TCR-independent signals*. **Sci Signal**. 2022 Jul 12;15(742):eabl5343. doi: 10.1126/scisignal.abl5343. Epub 2022 Jul 12.

Frieser D, Pignata A, Khajavi L, Shlesinger D, Gonzalez-Fierro C, Nguyen XH, Yermanos A, Merkler D, Höftberger R, Desestret V, Mair KM, Bauer J, Masson F, Liblau RS. *Tissue-resident CD8⁺ T cells drive compartmentalized and chronic autoimmune damage against CNS neurons*. **Sci Transl Med**. 2022 Apr 13;14(640):eabl6157. doi: 10.1126/scitranslmed.abl6157. Epub 2022 Apr 13.

Kreutmair S, Kauffmann M, Unger S, Ingelfinger F, Núñez NG, Alberti C, De Feo D, Krishnarajah S, Friebel E, Ulutekin C, Babaei S, Gaborit B, Lutz M, Jurado NP, Malek NP, Göpel S, Rosenberger P, Häberle HA, Ayoub I, Al-Hajj S, Claassen M, Liblau R, Martin-Blondel G, Bitzer M, Roquilly A, Becher B. *Pre-existing comorbidities shape the immune response associated with severe COVID-19*. **J Allergy Clin Immunol**. 2022 Jun 15:S0091-6749(22)00790-4. doi:

Kreutmair S, Unger S, Núñez NG, Ingelfinger F, Alberti C, De Feo D, Krishnarajah S, Kauffmann M, Friebel E, Babaei S, Gaborit B, Lutz M, Jurado NP, Malek NP, Goepel S, Rosenberger P, Häberle HA, Ayoub I, Al-Hajj S, Nilsson J, Claassen M, Liblau R, Martin-Blondel G, Bitzer M, Roquilly A, Becher B. *Distinct immunological signatures discriminate severe COVID-19 from non-SARS-CoV-2-driven critical pneumonia*. **Immunity**. 2022 Feb 8;55(2):366-375. doi: 10.1016/j.immuni.2022.01.015.

Hohlfeld R, Liblau RS. *Toward identification of personalized immunological profiles in multiple sclerosis*. **Sci Adv**. 2022 Apr 29;8(17):eabq4849. doi: 10.1126/sciadv.abq4849. Epub 2022 Apr 27. PMID: 35476442 Free article. Review.

Gaudenzio N, Liblau RS. *Immune cells impede repair of old neurons*. **Science**. 2022 May 13;376(6594):694-695. doi: 10.1126/science.abp9878. Epub 2022 May 12.

Chiu IM, Liblau R. *Editorial overview: Special section neuroimmunology: Neuroimmune interactions in health and disease*. **Curr Opin Immunol**. 2022 Jul 2;77:102232. doi: 10.1016/j.coi.2022.102232. Online ahead of print. PMID: 35792467

Melzi S, Morel AL, Scoté-Blachon C, Liblau R, Dauvilliers Y, Peyron C. *Histamine in murine narcolepsy: What do genetic and immune models tell us?* **Brain Pathol**. 2022 Mar;32(2):e13027. doi: 10.1111/bpa.13027. Epub 2021 Oct 21.

Martin-Blondel G, Marcelin AG, Soulié C, Kaisaridi S, Lusivika-Nzinga C, Dorival C, Nailler L, Boston A, Melenotte C, Cabié A, Choquet C, Coustillères F, Martellosio JP, Gaube G, Trinh-Duc A, Ronchetti AM, Pourcher V, Chauveau M, Lacombe K, Peiffer-Smadja N, Housset P, Perrot A, Pialoux G, Martin A, Dubee V, Devaux M, Frey J, Cazanave C, Liblau R, Carrat F, Yordanov Y. *Sotrovimab to prevent severe COVID-19 in high-risk patients infected with Omicron BA.2*. **J Infect**. 2022 Jul 5:S0163-4453(22)00406-6. doi: 10.1016/j.jinf.2022.06.033. Online ahead of print.

Merkler D, Vincenti I, Masson F, Liblau RS. *Tissue-resident CD8 T cells in central nervous system inflammatory diseases: present at the crime scene and ...guilty*. **Curr Opin Immunol**. 2022 May 26;77:102211. doi: 10.1016/j.coi.2022.102211.

Pohar J, O'Connor R, Manfroi B, El-Behi M, Jouneau L, Boudinot P, Bunse M, Uckert W, Luka M, Ménager M, Liblau R, Anderton SM, Fillatreau S. *Antigen receptor-engineered Tregs inhibit CNS autoimmunity in cell therapy using nonredundant immune mechanisms in mice*. **Eur J Immunol**. 2022 May 17. doi: 10.1002/eji.202249845. Online ahead of print.

Martin-Blondel G, Marcelin AG, Soulié C, Kaisaridi S, Lusivika-Nzinga C, Dorival C, Nailler L, Boston A, Melenotte C, Gaube G, Choquet C, Liblau R, Carrat F, Yordanov Y; COCOPREV Study Group. *Outcome of very high-risk patients treated by Sotrovimab for mild-to-moderate COVID-19 Omicron, a prospective cohort study (the ANRS 0003S COCOPREV study)*. **J Infect**. 2022 Jun;84(6):e101-e104. doi: 10.1016/j.jinf.2022.04.010. Epub 2022 Apr 7.

Del Bello A, Gouin A, Chaubet C, Kamar N, Treiner E. *The CD226/TIGIT axis is involved in T cell hypo-responsiveness appearance in long-term kidney transplant recipients*. **Sci Rep**. 2022 Jul 12;12(1):11821. doi: 10.1038/s41598-022-15705-6.

Renaudineau Y, Abravanel F, Izopet J, Bost C, Treiner E, Congy N, Blancher A. *Novel T cell interferon gamma release assay (IGRA) using spike recombinant protein for COVID19 vaccine response and Nucleocapsid for SARS-Cov2 response*. **Clin Immunol**. 2022 Apr;237:108979. doi: 10.1016/j.clim.2022.108979. Epub 2022 Mar 14.

Dorcet G, Migné H, Biotti D, Bost C, Lerebours F, Ciron J, Treiner E. *Early B cells repopulation in multiple sclerosis patients treated with rituximab is not predictive of a risk of relapse or clinical progression*. **J Neurol**. 2022 Jun 2;1-11. doi: 10.1007/s00415-022-11197-6

Bost C, Arleevskaya MI, Brooks WH, Plaza S, Guery JC, Renaudineau Y. *Long non-coding RNA Xist contribution in systemic lupus erythematosus and rheumatoid arthritis*. **Clin Immunol**. 2022 Mar;236:108937. doi: 10.1016/j.clim.2022.108937..

Bories E, Fortenfant F, Pugnet G, Renaudineau Y, Bost C. *Myositis-specific autoantibodies in clinical practice: Improving the performance of the immunodot*. **Semin Arthritis Rheum**. 2022 Aug;55:151998. doi: 10.1016/j.semarthrit.2022.151998.

Marlas M, Bost C, Dorcet G, Delourme A, Biotti D, Ciron J, Renaudineau Y, Puissant-Lubrano B. *Kappa-index: Real-life evaluation of a new tool for multiple sclerosis diagnosis*. **Clin Immunol**. 2022 Jun 12;241:109066. doi: 10.1016/j.clim.2022.109066.

Carlé C, Fortenfant F, Tauber M, Tournier E, Paul C, Bost C, Renaudineau Y. *Lupus band test can be used in combination with anti-chromatin antibodies and complement analysis to predict transition from cutaneous to systemic lupus*. **Clin Immunol**. 2022 Jan;234:108908. doi: 10.1016/j.clim.2021.108908. Epub 2021 Dec 8.

Dorcet G, Benaiteau M, Ory-Magne F, Blancher A, Pariente J, Fortenfant F, Bost C. *Case Report: Presence of Anti-MAG in the CSF Can Be Associated With a Neurodegenerative Process With Frontal Involvement*. **Front Neurol**. 2022 May 25;13:847798. doi: 10.3389/fneur.2022.847798. eCollection 2022.

Dimeglio C, Herin F, Martin-Blondel G, Miedougé M, Izopet J. *Antibody titers and protection against a SARS-CoV-2 infection.* **J Infect.** 2022 Feb;84(2):248-288. doi: 10.1016/j.jinf.2021.09.013. Epub 2021 Sep 21.

Cuzin L, Delobel P, Martin-Blondel G. *Letter to the editor.* **HIV Med.** 2022 Feb;23(2):204-205. doi: 10.1111/hiv.13192. Epub 2021 Nov 7.

Lajaunie R, Mainardi I, Gasnault J, Rousseau V, Tarantino AG, Sommet A, Cinque P, Martin-Blondel G; PML study group. *Outcome of Progressive Multifocal Leukoencephalopathy Treated by Interleukin-7.* **Ann Neurol.** 2022 Apr;91(4):496-505. doi: 10.1002/ana.26307. Epub 2022 Feb 18.

Joly M, Conte C, Cazanave C, Le Moing V, Tattevin P, Delobel P, Sommet A, Martin-Blondel G. *Progressive multifocal leukoencephalopathy: epidemiology and spectrum of predisposing conditions.* **Brain.** 2022 Jul 2;awac237. doi: 10.1093/brain/awac237. Online ahead of print.

Collercandy N, Miguères M, Hallak B, Garnier C, Rousset S, Delourme A, Delobel P, Martin-Blondel G. *Rotavirus Meningitis in an adult with transient aphasia.* **Int J Infect Dis.** 2022 Jul 7:S1201-9712(22)00407-6. doi: 10.1016/j.ijid.2022.07.002.

Vellas C, Trémeaux P, Del Bello A, Latour J, Jeanne N, Ranger N, Danet C, Martin-Blondel G, Delobel P, Kamar N, Izopet J. *Resistance mutations in SARS-CoV-2 omicron variant in patients treated with sotrovimab.* **Clin Microbiol Infect.** 2022 May 17:S1198-743X(22)00258-0. doi: 10.1016/j.cmi.2022.05.002.

Jourdes A, Lafaurie M, Moulis G, Delobel P, Faruch M, Sommet A, Martin-Blondel G. *Comparison of the first and second waves of coronavirus disease in Toulouse, France.* **Infect Dis Now.** 2022 Feb;52(1):49-52. doi: 10.1016/j.idnow.2021.09.005. Epub 2021 Oct 1.

Windels L, Naneix-Laroche V, Pasquier C, Delobel P, Parize P, Martin-Blondel G. *Two-year immunogenicity of a pre-exposure rabies vaccination administered as a two-dose schedule.* **J Travel Med.** 2022 Jul 14;29(4):taac029. doi: 10.1093/jtm/taac029.

Martin-Blondel G, Marcelin AG, Soulié C, Kaisaridi S, Lusivika-Nzinga C, Dorival C, Nailler L, Boston A, Melenotte C, Cabié A, Choquet C, Coustillères F, Martellosio JP, Gaube G, Trinh-Duc A, Ronchetti AM, Pourcher V, Chauveau M, Lacombe K, Peiffer-Smadja N, Housset P, Perrot A, Pialoux G, Martin A, Dubee V, Devaux M, Frey J, Cazanave C, Liblau R, Carrat F, Yordanov Y. *Sotrovimab to prevent severe COVID-19 in high-risk patients infected with Omicron BA.2.* **J Infect.** 2022, Oct;85(4):e104-e108.

Dimeglio C, Herin F, Da-Silva I, Jouglu I, Pradere C, Porcheron M, Martin-Blondel G, Chapuy-Regaud S, Izopet J. *Heterologous ChAdOx1-S/BNT162b2 Vaccination: Neutralizing Antibody Response to Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2).* **Clin Infect Dis.** 2022 Apr 9;74(7):1315-1316. doi: 10.1093/cid/ciab705.

Planès R, Pinilla M, Santoni K, Hessel A, Passemar C, Lay K, Paillette P, Valadão AC, Robinson KS, Bastard P, Lam N, Fadrique R, Rossi I, Pericat D, Bagayoko S, Leon-Icaza SA, Rombouts Y, Perouzel E, Tiraby M; COVID Human Genetic Effort, Zhang Q, Cicuta P, Jouanguy E, Neyrolles O, Bryant CE, Floto AR, Goujon C, Lei FZ, Martin-Blondel G, Silva S, Casanova JL, Cougoule C, Reversade B, Marcoux J, Ravet E, Meunier E. *Human NLRP1 is a*

sensor of pathogenic coronavirus 3CL proteases in lung epithelial cells. **Mol Cell.** 2022 Jul 7;82(13):2385-2400.e9. doi: 10.1016/j.molcel.2022.04.033. Epub 2022 May 16.

Dimeglio C, Miguères M, Chapuy-Regaud S, Da-Silva I, Jouglu I, Pradere C, Porcheron M, Martin-Blondel G, Lougarre C, Herin F, Izopet J. *Comparative effects of mRNA vaccine booster and natural Omicron infection on the neutralizing antibody response.* **J Infect.** 2022 Jul;85(1):e4-e6. doi: 10.1016/j.jinf.2022.05.001. Epub 2022 May 7.

Vellas C, Del Bello A, Debarb A, Steinmeyer Z, Tribaudeau L, Ranger N, Jeanne N, Martin-Blondel G, Delobel P, Kamar N, Izopet J. *Influence of treatment with neutralizing monoclonal antibodies on the SARS-CoV-2 nasopharyngeal load and quasispecies.* **Clin Microbiol Infect.** 2022 Jan;28(1):139.e5-139.e8. doi: 10.1016/j.cmi.2021.09.008. Epub 2021 Sep 16.

Martin-Blondel G, Marcelin AG, Soulié C, Kaisaridi S, Lusivika-Nzinga C, Dorival C, Nailler L, Boston A, Melenotte C, Gaube G, Choquet C, Liblau R, Carrat F, Yordanov Y; COCOPREV Study Group. *Outcome of very high-risk patients treated by Sotrovimab for mild-to-moderate COVID-19 Omicron, a prospective cohort study (the ANRS 0003S COCOPREV study).* **J Infect.** 2022 Jun;84(6):e101-e104. doi: 10.1016/j.jinf.2022.04.010. Epub 2022 Apr 7.

Dimeglio C, Herin F, Da-Silva I, Porcheron M, Martin-Blondel G, Miedougé M, Izopet J. *Strong Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Neutralizing Antibody Response of Previously Infected Healthcare Workers Given 1 Dose of mRNA Vaccine.* **Clin Infect Dis.** 2022 Mar 1;74(4):746. doi: 10.1093/cid/ciab573.

Dalla-Pozza P, Hentzien M, Allavena C, Doe de Maindreville A, Bouiller K, Valantin MA, Lafont E, Zaegel-Faucher O, Cheret A, Martin-Blondel G, Cotte L, Bani-Sadr F; Dat'AIDS study group. *Progressive multifocal leukoencephalopathy in patients with immunovirological control and at least 6 months of combination antiretroviral therapy.* **AIDS.** 2022 Mar 15;36(4):539-549. doi: 10.1097/QAD.0000000000003145.

Vellas C, Del Bello A, Gaube G, Tremeaux P, Jeanne N, Ranger N, Martin-Blondel G, Delobel P, Kamar N, Izopet J. *Impact of Casirivimab-Imdevimab on Severe Acute Respiratory Syndrome Coronavirus 2 Delta Variant Nasopharyngeal Virus Load and Spike Quasispecies.* **Open Forum Infect Dis.** 2022 Feb 21;9(4):ofac093. doi: 10.1093/ofid/ofac093. eCollection 2022 Apr.

Martin-Blondel G, Lescure FX, Assoumou L, Charpentier C, Chaplain JM, Perpoint T, Grouteau G, Cordel H, Pialoux G, Pacanowski J, Thy M, Bauvois A, Laureillard D, Hamrouni F, Algarte-Genin M, Poissy J, Descamps D, Costagliola D; CoCliCo Study Group; *Increased risk of severe COVID-19 in hospitalized patients with SARS-CoV-2 Alpha variant infection: a multicentre matched cohort study.* **BMC Infect Dis.** 2022 Jun 13;22(1):540. doi: 10.1186/s12879-022-07508-x.

Lajaunie R, Cuzin L, Palich R, Makinson A, Bani-Sadr F, Duvivier C, Arvieux C, Rey D, Poizot-Martin I, Delpierre C, Delobel P, Martin-Blondel G; And The Dat'AIDS study group. *No increased risk of Kaposi sarcoma relapse in patients with controlled HIV-1 infection after switching protease inhibitor-based antiretroviral therapy.* **HIV Med.** 2022 Mar;23(3):301-306. doi: 10.1111/hiv.13168. Epub 2021 Oct 19.

Rousset S, Zenou M, Saunier A, Varenne F, Soler V, Tournier E, Legrand L, Lachaud L, Buffet P, Berry A, Delobel P, Martin-Blondel G. *Immune recovery-related patterns of post kala-azar dermal and ocular leishmaniasis in people living with HIV: a national survey and literature review*. **AIDS**. 2022 Jul 18. doi: 10.1097/QAD.0000000000003336. Online ahead of print.

Serris A, Ouedrani A, Uhel F, Gazzano M, Bedarida V, Rouzaud C, Bougnoux ME, Raphalen JH, Poirée S, Lambotte O, Martin-Blondel G, Lanternier F. *Case Report: Immune Checkpoint Blockade Plus Interferon- γ Add-On Antifungal Therapy in the Treatment of Refractory Covid-Associated Pulmonary Aspergillosis and Cerebral Mucormycosis*. **Front Immunol**. 2022 Jun 1;13:900522. doi: 10.3389/fimmu.2022.900522. eCollection 2022

Galoppin M, Kari S, Soldati S, Pal A, Rival M, Engelhardt B, Astier A, Thouvenot E. *Full spectrum of vitamin D immunomodulation in multiple sclerosis: mechanisms and therapeutic implications*. **Brain Commun**. 2022 Jun 30;4(4):fcac171. doi: 10.1093/braincomms/fcac171. eCollection 2022.

Petitfils C, Maurel S, Payros G, Hueber A, Agaiz B, Gazzo G, Marrocco R, Auvray F, Langevin G, Motta JP, Floch P, Tremblay-Franco M, Galano JM, Guy A, Durand T, Lachambre S, Hussein H, Decraecker L, Bertrand Michel J, Saoudi A, Oswald E, Poisbeau P, Dietrich G, Melchior C, Boeckxstaens G, Serino M, le Faouder P, Cenac N. *Identification of bacterial lipopeptides as key players in IBS*. **Gut**. 2022 Oct 14;gutjnl-2022-328084. doi: 10.1136/gutjnl-2022-328084.

Renaudineau Y, Sailer L, Abravanel F, Izopet J, Delourme A, Biotti D, Ciron J, Treiner E, Congy-Jolivet N, Bost C, Blancher A. *Glucocorticoid use as a cause of non-cellular immune response to SARS-Cov2 Spike in patients with immune system diseases*. **J Autoimmun**. 2022 Sep 12;133:102912. doi: 10.1016/j.jaut.2022.102912.

Argenty J, Rouquié N, Bories C, Duplan V, Saoudi A, Fazilleau N, Lesourne R. *A selective Lis1-requirement for mitotic spindle assembly drives proliferation following thymocytes bselection and CD4+ T cell priming*. **Elife** (revision favorable).

Doan Ngoc TM, Tilly G, Danger R, Bonizec O, Masset C, Guérif P, Bruneau S, Glemain A, Harb J, Cadoux M, Vivet A, Mai HL, Garcia A, Laplaud D, Liblau R, Giral M, Blandin S, Feyeux M, Dubreuil L, Pecqueur C, Cyr M, Ni W, Brouard S, Degauque N; *on behalf on the DIVAT Consortium*. *Effector Memory-Expressing CD45RA (TEMRA) CD8+ T Cells from Kidney Transplant Recipients Exhibit Enhanced Purinergic P2X4 Receptor-Dependent Proinflammatory and Migratory Responses*. **J Am Soc Nephrol**. 2022 Oct 24:ASN.2022030286.

Schneider-Hohendorf T, Gerdes LA, Pignolet B, Gittelman R, Ostkamp P, Rubelt F, Raposo C, Tackenberg B, Riepenhausen M, Janoschka C, Wünsch C, Bucciarelli F, Flierl-Hecht A, Beltrán E, Kämpfel T, Anslinger K, Gross CC, Chapman H, Kaplan I, Brassat D, Wekerle H, Kerschensteiner M, Klotz L, Lünemann JD, Hohlfeld R, Liblau R*, Wiendl H*, Schwab N*. *Broader Epstein-Barr virus-specific T cell receptor repertoire in patients with multiple sclerosis*. **J Exp Med**. 2022 Nov 7;219(11):e20220650. * Equally contributed.

Boumaza X, Bonneau B, Roos-Weil D, Pinnetti C, Rauer S, Nitsch L, Del Bello A, Jelcic I, Sühs KW, Gasnault J, Goreci Y, Grauer O, Gnanapavan S, Wicklein R, Lambert N, Perpoint T, Beudel M, Clifford D, Sommet A, Cortese I, Martin-Blondel G; *Immunotherapy for PML Study Group* Progressive Multifocal Leukoencephalopathy Treated by Immune Checkpoint Inhibitors. **Ann Neurol**. 2022 Sep 24. doi: 10.1002/ana.26512.

Dimeglio C, Trémeaux P, Herin F, Da-Silva I, Porcheron M, Martin-Blondel G, Gernigon C, Chapuy-Regaud S, Villars H, Izopet J. *Post-vaccination SARS-CoV-2 antibody kinetics and protection duration against Omicron in elderly population*. **J Infect**. 2022 Sep 3;85(6):702-69. doi: 10.1016/j.jinf.2022.08.040.

de Lamballerie X, Martin-Blondel G, Dupont A, Izopet J, Mentré F, Kamar N, Autran B, Paintaud G, Caillard S, le Bourgeois A, Richez C, Couzi L, Xhaard A, Marjanovic Z, Avouac J, Jacquet C, Anglicheau D, Cheminant M, Yazdanpanah Y, Guyen SN, Terrier B, Gottenberg JE, Besson C, Letrou S, Kali S, Angoulvant D, Sanchez VP, Tardivon C, Blancho G, Lévy V. *Low serum neutralization of Omicron variants a month after AZD7442 prophylaxis initiation*. **J Infect**. 2022 Oct 8:S0163-4453(22)00565-5. doi: 10.1016/j.jinf.2022.10.006.

Dimeglio C, Herin F, Da-Silva I, Porcheron M, Martin-Blondel G, Chapuy-Regaud S, Izopet J. *Post-Vaccination Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Antibody Kinetics and Protection Duration*. **Clin Infect Dis**. 2022 Aug 24;75(1):e924-e925. doi: 10.1093/cid/ciab984

Dimeglio C, Miguères M, Bouzid N, Chapuy-Regaud S, Gernigon C, Da-Silva I, Porcheron M, Martin-Blondel G, Herin F, Izopet J. *Antibody Titers and Protection against Omicron (BA.1 and BA.2) SARS-CoV-2 Infection*. **Vaccines** (Basel). 2022 Sep 17;10(9):1548. doi: 10.3390/vaccines10091548.

Dimeglio C, Herin F, Da-Silva I, Jouglia I, Pradere C, Porcheron M, Martin-Blondel G, Chapuy-Regaud S, Izopet J. *Heterologous ChAdOx1-S/BNT162b2 Vaccination: Neutralizing Antibody Response to Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2)*. **Clin Infect Dis**. 2022 Apr 9;74(7):1315-1316. doi: 10.1093/cid/ciab705.

Braut A, Tran-Kiem C, Couteaux C, Olié V, Paireau J, Yazdanpanah Y, Ghosn J, Martin-Blondel G, Bosetti P, Cauchemez S. *Modelling the end of a Zero-COVID strategy using nirmatrelvir/ritonavir, vaccination and NPIs in Wallis and Futuna*. **Lancet Reg Health West Pac**. 2022 Nov 14;30:100634. doi: 10.1016/j.lanwpc.2022.100634. eCollection 2023 Jan.

Zerbit J, Deroit M, Chevret S, Pene F, Luyt CE, Ghosn J, Eyvrad F, Martin-Blondel G, Sarton B, Clere-Jehl R, Moine P, Cransac A, Andreu P, Labruyère M, Albertini L, Huon JF, Roge P, Bernard L, Farines-Raffoul M, Villiet M, Venet A, Dumont LM, Kaiser JD, Chapuis C, Goehringer F, Barbier F, Desjardins S, Benzidi Y, Abbas N, Guerin C, Batista R, Llitjos JF, Kroemer M. *Remdesivir for Patients Hospitalized with COVID-19 Severe Pneumonia: A National Cohort Study (Remdeco-19)*. **J Clin Med**. 2022 Nov 4;11(21):6545. doi: 10.3390/jcm1121654

Bernard-Valnet R, Moisset X, Maubeuge N, Lefebvre M, Ouallet JC, Roumier M, Lebrun-Frenay C, Ciron J, Biotti D, Clavelou P, Godeau B, Du Pasquier RA, Martin-Blondel G. *CCR5 Blockade in Inflammatory PML and PML-IRIS Associated With Chronic Inflammatory Diseases'*

Treatments. Neurol Neuroimmunol Neuroinflamm. 2021 Nov 2;9(1):e1097. doi: 10.1212/NXI.0000000000001097. Print 2022 Jan.

Vellas C, Del Bello A, Gaube G, Tremeaux P, Jeanne N, Ranger N, Martin-Blondel G, Delobel P, Kamar N, Izopet J. *Impact of Casirivimab-Imdevimab on Severe Acute Respiratory Syndrome Coronavirus 2 Delta Variant Nasopharyngeal Virus Load and Spike Quasispecies. Open Forum Infect Dis.* 2022 Feb 21;9(4):ofac093. doi: 10.1093/ofid/ofac093. eCollection 2022 Apr.

Viguiet C, de Kermel T, Boumaza X, Benmedjahed NS, Izopet J, Pasquier C, Delobel P, Mansuy JM, Martin-Blondel G. *A severe monkeypox infection in a patient with an advanced HIV infection treated with tecovirimat: clinical and virological outcome. Int J Infect Dis.* 2022 Oct 29;125:135-137. doi: 10.1016/j.ijid.2022.10.031.

Ghosn J, Bachelet D, Livrozet M, Cervantes-Gonzalez M, Poissy J, Goehring F, Gandonniere CS, Maillat M, Bani-Sadr F, Martin-Blondel G, Tattevin P, Launay O, Surgers L, Dudoignon E, Liegeon G, Zucman D, Joseph C, Senneville E, Yelnik C, Roger PM, Faure K, Gousseff M, Cabié A, Duval X, Chirouze C, Laouénan C; *French COVID cohort Study Group and the French COVID cohort Investigators Group. Prevalence of post-acute coronavirus disease 2019 symptoms twelve months after hospitalization in participants retained in follow-up: analyses stratified by gender from a large prospective cohort. Clin Microbiol Infect.* 2022 Sep 30:S1198-743X(22)00507-9. doi: 10.1016/j.cmi.2022.08.028. Online ahead of print

Raymond S, Jeanne N, Nicot F, Dimeglio C, Carcenac R, Harter A, Ranger N, Martin-Blondel G, Delobel P, Izopet J. *HIV-1 resistance genotyping by ultra-deep sequencing and 6-month virological response to first-line treatment. J Antimicrob Chemother.* 2022 Nov 30:dkac391. doi: 10.1093/jac/dkac391. Online ahead of print

Vukusic S, Carra-Dalliere C, Ciron J, Maillat E, Michel L, Leray E, Guennoc AM, Bourre B, Laplaud D, Androdias G, Bensa C, Bigaut K, Biotti D, Branger P, Casez O, Cohen M, Daval E, Deschamps R, Donze C, Dubessy AL, Dulau C, Durand-Dubief F, Guillaume M, Hebant B, Kremer L, Kwiatkowski A, Lannoy J, Maarouf A, Manchon E, Mathey G, Moisset X, Montcuquet A, Pique J, Roux T, Marignier R, Lebrun-Frenay C. *Pregnancy and multiple sclerosis: 2022 recommendations from the French multiple sclerosis society. Mult Scler.* 2022 Nov 1:13524585221129472. doi: 10.1177/13524585221129472

Demuth S, Guillaume M, Bourre B, Ciron J, Zephir H, Sirejacob Y, Kerbrat A, Lebrun-Frenay C, Papeix C, Michel L, Laplaud D, Vukusic S, Maillat E, Cohen M, Audoin B, Marignier R, Collongues N; *NOMADMUS Study Group. Treatment regimens for neuromyelitis optica spectrum disorder attacks: a retrospective cohort study. J Neuroinflammation.* 2022 Mar 2;19(1):62. doi: 10.1186/s12974-022-02420-2.

Vukusic S, Carra-Dalliere C, Ciron J, Maillat E, Michel L, Leray E, Guennoc AM, Bourre B, Laplaud D, Androdias G, Bensa C, Bigaut K, Biotti D, Branger P, Casez O, Cohen M, Daval E, Deschamps R, Donze C, Dubessy AL, Dulau C, Durand-Dubief F, Guillaume M, Hebant B, Kremer L, Kwiatkowski A, Lannoy J, Maarouf A, Manchon E, Mathey G, Moisset X, Montcuquet A, Pique J, Roux T, Marignier R, Lebrun-Frenay C. *Pregnancy and multiple sclerosis: 2022 recommendations from the French multiple sclerosis society. Mult Scler.* 2022 Nov 1:13524585221129472. doi: 10.1177/13524585221129472. Online ahead of print.

Vukusic S, Marignier R, Ciron J, Bourre B, Cohen M, Deschamps R, Guillaume M, Kremer L, Pique J, Carra-Dalliere C, Michel L, Leray E, Guennoc AM, Laplaud D, Androdias G, Bensa C, Bigaut K, Biotti D, Branger P, Casez O, Daval E, Donze C, Dubessy AL, Dulau C, Durand-Dubief F, Hebant B, Kwiatkowski A, Lannoy J, Maarouf A, Manchon E, Mathey G, Moisset X, Montcuquet A, Roux T, Maillart E, Lebrun-Frenay C. *Pregnancy and neuromyelitis optica spectrum disorders: 2022 recommendations from the French Multiple Sclerosis Society*. **Mult Scler**. 2022 Nov 8;13524585221130934. doi: 10.1177/13524585221130934. Online ahead of print.

Rollot F, Couturier J, Casey R, Wiertelowski S, Debouverie M, Pelletier J, De Sèze J, Labauge P, Ruet A, Thouvenot E, Ciron J, Berger E, Gout O, Clavelou P, Stankoff B, Casez O, Bourre B, Zephir H, Moreau T, Lebrun-Frenay C, Maillart E, Edan G, Neau JP, Montcuquet A, Cabre P, Camdessanché JP, Defer G, Nasr HB, Maurousset A, Hankiewicz K, Pottier C, Leray E, Vukusic S, Laplaud DA. *Comparative Effectiveness of Natalizumab Versus Anti-CD20 in Highly Active Relapsing-Remitting Multiple Sclerosis After Fingolimod Withdrawal*. **Neurotherapeutics**. 2022 Mar;19(2):476-490. doi: 10.1007/s13311-022-01202-1. Epub 2022 Feb 25.

Carra-Dallière C, Rollot F, Deschamps R, Ciron J, Vukusic S, Audoin B, Ruet A, Maillart E, Papeix C, Zephir H, Laplaud D, Cohen M, Bourre B, El-Bahi I, Labauge P, Casey R, Aygnac X, Marignier R. *Pregnancy and post-partum in patients with myelin-oligodendrocyte glycoprotein antibody-associated disease*. **Mult Scler**. 2022 Dec 1;13524585221134214. doi: 10.1177/13524585221134214. Online ahead of print.

Wilson S, Calocer F, Rollot F, Fauvernier M, Remontet L, Tron L, Vukusic S, Le Page E, Debouverie M, Ciron J, Ruet A, De Sèze J, Zephir H, Moreau T, Lebrun-Frény C, Laplaud DA, Clavelou P, Labauge P, Berger E, Pelletier J, Heinzlef O, Thouvenot E, Camdessanché JP, Leray E, Dejardin O, Defer G. *Effects of socioeconomic status on excess mortality in patients with multiple sclerosis in France: A retrospective observational cohort study*. **Lancet Reg Health Eur**. 2022 Nov 17;24:100542. doi: 10.1016/j.lanepe.2022.100542. eCollection 2023 Jan.

Texier B, Prime M, Atamena D, Belenguer P, Szelechowski M. *Mortalin/Hspa9 involvement and therapeutic perspective in Parkinson's disease*. **Neural Regen Res**. 2023 Feb;18(2):293-298. doi: 10.4103/1673-5374.346487.

Eqp Remy Poupot /Jérôme Ausseil: **Pathophysiology of chronic inflammatory disorders and relate biotherapies**

Manceau H, Ausseil J, Masson D, Feugeas JP, Sablonniere B, Guieu R, Puy H, Peoc'h K. *Neglected Comorbidity of Chronic Heart Failure: Iron Deficiency*. **Nutrients**. 2022 Aug 5;14(15):3214. doi: 10.3390/nu14153214. PMID: 35956390; PMCID: PMC9370238.

Peoc'h K, Ausseil J, Feugeas JP, Guieu R, Masson D, Sablonniere B, Puy H. *Carence martiale sans anémie : première comorbidité curable de l'insuffisance cardiaque [A neglected comorbidity of chronic heart failure: iron deficiency]*. **Ann Biol Clin (Paris)**. 2022 Mar 1;80(2):109-118. French. doi: 10.1684/abc.2022.1719. PMID: 35766071.

Yaker L, Tebani A, Lesueur C, Dias C, Jung V, Bekri S, Guerrera IC, Kamel S, Ausseil J, Boullier A. *Extracellular Vesicles From LPS-Treated Macrophages Aggravate Smooth Muscle Cell Calcification by Propagating Inflammation and Oxidative Stress*. **Front Cell Dev Biol**. 2022 Mar 9;10:823450. doi: 10.3389/fcell.2022.823450. PMID: 35356285; PMCID: PMC8959646.

Daher R, Ducrot N, Lefebvre T, Zineeddine S, Ausseil J, Puy H, Karim Z. *Crosstalk between Acidosis and Iron Metabolism: Data from In Vivo Studies*. **Metabolites**. 2022 Jan 18;12(2):89. doi: 10.3390/metabo12020089. PMID: 35208164 Free PMC article.

Mathieu M, Friedrich C, Ducrot N, Zannoni J, Sylvie T, Jerraya N, Rousseaux S, Chuffart F, Kosmider O, Karim Z, Park S. *Luspatercept (RAP-536) modulates oxidative stress without affecting mutation burden in myelodysplastic syndromes*. **Ann Hematol**. 2022 Dec;101(12):2633-2643. doi: 10.1007/s00277-022-04993-7. Epub 2022 Oct 5. PMID: 36195681

Qatato M, Bonadonna M, Palais G, Ertl A, Schmidt G, Polycarpou-Schwarz M, Karim Z, Galy B. *Hemasphere. IRE-dependent Regulation of Intestinal Dmt1 Prevails During Chronic Dietary Iron Deficiency but is Dispensable in Conditions of Acute Erythropoietic Stress*. 2022, Feb 16;6(3):e693. doi: 10.1097/HS9.0000000000000693. eCollection 2022 Mar. PMID: 35187408 Free PMC article. No abstract available.

Le Gac G, Scotet V, Gourlaouen I, L'Hostis C, Merour MC, Karim Z, Deugnier Y, Bardou-Jacquet E, Lefebvre T, Assari S, Ferec C. *Aliment Prevalence of HFE-related haemochromatosis and secondary causes of hyperferritinaemia and their association with iron overload in 1059 French patients treated by venesection*. **Pharmacol Ther**. 2022 Apr;255(8):1016-1027. doi: 10.1111/apt.16775. Epub 2022 Feb 4. PMID: 35122291

Farrell CP, Nicolas G, Desnick RJ, Parker CJ, Lamoril J, Gouya L, Karim Z, Tchernitchko D, Chan B, Puy H, Phillips JD. *ABCB6 polymorphisms are not overly represented in patients with porphyria*. **Blood Adv**. 2022 Feb 8;6(3):760-766. doi: 10.1182/bloodadvances.2021005484. PMID: 34724702 Free PMC article.

Touzot M, Lefebvre T, Maheas C, Peoc'h K, Ureña-Torres P, Ridel C, Puy H, Karim Z. *Kinetics of serum hepcidin and interleukin-6 levels following COVID-19 infection in hemodialysis patients*. **Clin Kidney J**. 2021 Dec 8;15(3):582-583. doi: 10.1093/ckj/sfab254. eCollection 2022 Mar. PMID: 35211314 Free PMC article. No abstract available.

Degboe Y, Vastert SJ, Prakken BJ, McInnes IB. *How does age determine the development of human immune-mediated arthritis?* **Nat Rev Rheumatol**. 2022 Sep;18(9):501-512. doi: 10.1038/s41584-022-00814-3. Epub 2022 Aug 10. PMID: 35948692 Free PMC article. Review.

Degboé Y, Koch R, Zabraniecki L, Jamard B, Couture G, Ruidavets JB, Ferrieres J, Ruysen-Witrant A, Constantin A. *Increased Cardiovascular Risk in Psoriatic Arthritis: Results From a Case-Control Monocentric Study*. **Front Med (Lausanne)**. 2022 May 19;9:785719. doi: 10.3389/fmed.2022.785719. eCollection 2022. PMID: 35665348 Free PMC article.

Potin P, Degboé Y, Couture G, Marque P, De Boissezon X, Laroche M. *Loss of bone mineral density in hemiplegic patients after stroke: Prospective single-center study*. **Rev Neurol (Paris)**. 2022 Oct;178(8):808-811. doi: 10.1016/j.neurol.2022.01.012. Epub 2022 May 20. PMID: 35599071

Ruyssen-Witrand A, Rousseau V, Sommet A, Goupille P, Degboe Y, Constantin A. *Factors associated with drug-free remission at 5-year in early onset axial spondyloarthritis patients: Data from the DESIR cohort.* **Joint Bone Spine.** 2022 Jul;89(4):105358. doi: 10.1016/j.jbspin.2022.105358. Epub 2022 Feb 12. PMID: 35167972

Degboé Y, Poupot R, Poupot M. *Repolarization of Unbalanced Macrophages: Unmet Medical Need in Chronic Inflammation and Cancer.* **Int J Mol Sci.** 2022 Jan 28;23(3):1496. doi: 10.3390/ijms23031496. PMID: 35163420 Free PMC article. Review.

Laroche M, Degboe Y, Constantin A. *Sjögren's syndrome associated with erosive rheumatoid arthritis alters its prognosis and long-term therapeutic response: a case-control study.* **Rheumatol Int.** 2022 Jan 9. doi: 10.1007/s00296-021-05074-0. Online ahead of print. PMID: 34999915

Bloudeau L, Linglart A, Flammier S, Portefaix A, Bertholet-Thomas A, Eddiry S, Barosi A, Salles JP, Porquet-Bordes V, Rothenbuhler A, Roger C, Bacchetta J. *X-linked hypophosphatemia, obesity and arterial hypertension: data from the XLH21 study.* **Pediatr Nephrol.** 2022 Jun 27. doi: 10.1007/s00467-022-05636-9. Online ahead of print. PMID: 35758999

Rouleau C, Malorie M, Collet C, Porquet-Bordes V, Gennero I, Eddiry S, Laroche M, Salles JP, Couture G, Edouard T. *Diagnostic yield of bone fragility gene panel sequencing in children and young adults referred for idiopathic primary osteoporosis at a single regional reference centre.* **Bone Rep.** 2022 Feb 23;16:101176. doi: 10.1016/j.bonr.2022.101176. eCollection 2022 Jun. PMID: 35252483

Bois C, Fazakas I, Salles J, Gozé T. *Personal Identity and Narrativity in Borderline Personality Disorder: A Phenomenological Reconfiguration.* **Psychopathology.** 2022 Sep 22:1-11. doi: 10.1159/000526222. Epub ahead of print. PMID: 36137507.

Salles J, Yrondi A, Marhar F, Andant N, Dorliac RA, Quach B, Jiao J, Antunes S, Ugbohue UC, Guegan J, Rouffiac K, Pereira B; COVISTRESS Network, Clinchamps M, Dutheil F. *Changes in Cannabis Consumption During the Global COVID-19 Lockdown: The International COVISTRESS Study.* **Front Psychiatry.** 2022 11;12:689634. doi: 10.3389/fpsyt.2021.689634. PMID:

Artioli M, Bougon E, Mathur A, Salles J. *Factors associated with a borderline personality disorder diagnosis in the emergency department.* **Front Psychiatry.** 2022 Sep 28;13:925462. doi: 10.3389/fpsyt.2022.925462. PMID: 36245874; PMCID: PMC9555017.

Tauber M. *Setmelanotide for controlling weight and hunger in Bardet-Biedl syndrome.* **Lancet Diabetes Endocrinol.** 2022 Dec;10(12):829-830. doi: 10.1016/S2213-8587(22)00309-6. Epub 2022 Nov 7. PMID: 36356611 No abstract available. The transition from paediatric to adult care in individuals with Prader-Willi syndrome.

Poitou C, Holland A, Hoybye C, de Graaff LCG, Bottius S, Otterlei B, Tauber M. **Endocr Connect.** 2022 Nov 1:EC-22-0373. doi: 10.1530/EC-22-0373. Online ahead of print. PMID: 36347048 Review. The transition from paediatric to adult care in individuals with Prader-Willi syndrome.

Poitou C, Holland A, Hoybye C, de Graaff LCG, Bottius S, Otterlei B, Tauber M. Online ahead of print. PMID: 36347048 Review. *First step towards a consensus strategy for multi-locus diagnostic testing of imprinting disorders.* **Endocr Connect.** 2022 Nov 1:EC-22-0373. doi: 10.1530/EC-22-0373.

Mackay D, Blik J, Kagami M, Tenorio-Castano J, Pereda A, Brioude F, Netchine I, Papingi D, de Franco E, Lever M, Sillibourne J, Lombardi P, Gaston V, Tauber M, Diene G, Bieth E, Fernandez L, Nevado J, Tümer Z, Riccio A, Maher ER, Beygo J, Tannorella P, Russo S, de Nancrales GP, Temple IK, Ogata T, Lapunzina P, Eggermann T. **Clin Epigenetics**. 2022 Nov 7;14(1):143. doi: 10.1186/s13148-022-01358-9. PMID: 36345041 Free PMC article.

Nannette G, Bar C, Diene G, Pienkowski C, Oliver-Petit I, Jouret B, Cartault A, Porquet-Bordes V, Sales JP, Grunenwald S, Edouard T, Molinas C, Tauber M. *Obesity, overweight and pituitary stalk interruption syndrome in children and young adults*. **J Clin Endocrinol Metab**. 2022 Oct 6:dgac583. doi: 10.1210/clinem/dgac583. Online ahead of print. PMID: 36201475.

Diene G, Angulo M, Hale PM, Jepsen CH, Hofman PL, Hokken-Koelega A, Ramesh C, Turan S, Tauber M. *Liraglutide for Weight Management in Children and Adolescents with Prader-Willi Syndrome and Obesity*. **J Clin Endocrinol Metab**. 2022 Oct 1:dgac549. doi: 10.1210/clinem/dgac549. Online ahead of print. PMID: 36181471.

Fiot E, Alauze B, Donadille B, Samara-Boustani D, Houang M, De Filippo G, Bachelot A, Delcour C, Beyler C, Bois E, Bourrat E, Bui Quoc E, Bourcigaux N, Chaussain C, Cohen A, Cohen-Solal M, Da Costa S, Dossier C, Ederhy S, Elmaleh M, Iserin L, Lengliné H, Poujol-Robert A, Roulot D, Viala J, Albarel F, Bismuth E, Bernard V, Bouvattier C, Brac A, Bretones P, Chabbert-Buffet N, Chanson P, Coutant R, de Warren M, Demaret B, Duranteau L, Eustache F, Gautheret L, Gelwane G, Gourbesville C, Grynberg M, Gueniche K, Jorgensen C, Kerlan V, Lebrun C, Lefevre C, Lorenzini F, Manouvrier S, Pienkowski C, Reynaud R, Reznik Y, Siffroi JP, Tabet AC, Tauber M, Vautier V, Tauveron I, Wambre S, Zenaty D, Netchine I, Polak M, Touraine P, Carel JC, Christin-Maitre S, Léger J. Turner syndrome: French National Diagnosis and Care Protocol (NDCP; National Diagnosis and Care Protocol) **Orphanet J Rare Dis**. 2022 Jul 12;17(Suppl 1):261. doi: 10.1186/s13023-022-02423-5. PMID: 35821070 Free PMC article.

Grolleau S, Delagrangue M, Souquiere M, Molinas C, Diene G, Valette M, Tauber M. *Impact of Deprivation on Obesity in Children with PWS*. **J Clin Med**. 2022 Apr 18;11(8):2255. doi: 10.3390/jcm11082255. PMID: 35456348 Free PMC article.

Müller HL, Tauber M, Lawson EA, Özyurt J, Bison B, Martinez-Barbera JP, Puget S, Merchant TE, van Santen HM. *Hypothalamic syndrome* **Nat Rev Dis Primers**. 2022 Apr 21;8(1):24. doi: 10.1038/s41572-022-00351-z. PMID: 35449162 Review.

Höybye C, Tauber M. *Approach to the Patient With Prader-Willi Syndrome*. **J Clin Endocrinol Metab**. 2022 May 17;107(6):1698-1705. doi: 10.1210/clinem/dgac082. PMID: 35150573 Free PMC article

Coutant R, Nicolino M, Cammas B, de Buyst V, Tauber M, Hamel JF. *Yearly Height Gain Is Dependent on the Truly Received Dose of Growth Hormone and the Duration of Periods of Poor Adherence: Practical Lessons From the French Easypod™ Connect Multicenter Observational Study*. **Front Endocrinol (Lausanne)**. 2022 Jan 20;12:790169. doi: 10.3389/fendo.2021.790169. eCollection 2021. PMID: 35126310 Free PMC article.

Caminade AM, Turrin CO, Poupot R. *Curing inflammatory diseases using phosphorous dendrimers*. **Wiley Interdiscip Rev Nanomed Nanobiotechnol**. 2022 Jul;14(4):e1783. doi: 10.1002/wnan.1783. Epub 2022 Feb 22. PMID: 35194953.

Bacchetta J, Edouard T, Laverny G, Bernardor J, Bertholet-Thomas A, Castanet M, Garnier C, Gennero I, Harambat J, Lapillonne A, Molin A, Naud C, Salles JP, Laborie S, Tounian P, Linglart *Vitamin D and calcium intakes in general pediatric populations: A French expert consensus paper*. **A.Arch Pediatr**. 2022 May;29(4):312-325. doi: 10.1016/j.arcped.2022.02.008. Epub 2022 Mar 16.PMID: 35305879 **Free article**.

Savarirayan R, De Bergua JM, Arundel P, McDevitt H, Cormier-Daire V, Saraff V, Skae M, Delgado B, Leiva-Gea A, Santos-Simarro F, Salles JP, Nicolino M, Rossi M, Kannu P, Bober MB, Phillips J 3rd, Saal H, Harmatz P, Burren C, Gotway G, Cho T, Muslimova E, Weng R, Rogoff D, Hoover-Fong J, Irving M. *Infigratinib in children with achondroplasia: the PROPEL and PROPEL 2 studies*. **Ther Adv Musculoskelet Dis**. 2022 Mar 21;14:1759720X221084848. doi: 10.1177/1759720X221084848. eCollection 2022.PMID: 35342457 **Free PMC article**.

Bloudeau L, Linglart A, Flammier S, Portefaix A, Bertholet-Thomas A, Eddiry S, Barosi A, Salles JP, Porquet-Bordes V, Rothenbuhler A, Roger C, Bacchetta *X-linked hypophosphatemia, obesity and arterial hypertension: data from the XLH21 study*. **J.Pediatr Nephrol**. 2022 Jun 27. doi: 10.1007/s00467-022-05636-9. Online ahead of print.PMID: 35758999

Bernardor J, Flammier S, Salles JP, Amouroux C, Castanet M, Lienhardt A, Martinerie L, Damgov I, Linglart A, Bacchetta *Off-label use of cinacalcet in pediatric primary hyperparathyroidism: A French multicenter experience*. **J. Front Pediatr**. 2022 Aug 24;10:926986. doi: 10.3389/fped.2022.

Caetano da Silva C, Edouard T, Fradin M, Aubert-Mucca M, Ricquebourg M, Raman R, Salles JP, Charon V, Guggenbuhl P, Muller M, Cohen-Solal M, Collet C. *WNT11, a new gene associated with early onset osteoporosis, is required for osteoblastogenesis*. **Hum Mol Genet**. 2022 May 19;31(10):1622-1634. doi: 10.1093/hmg/ddab349.PMID: 34875064

Rouleau C, Malorie M, Collet C, Porquet-Bordes V, Gennero I, Eddiry S, Laroche M, Salles JP, Couture G, Edouard T. *Diagnostic yield of bone fragility gene panel sequencing in children and young adults referred for idiopathic primary osteoporosis at a single regional reference centre*. **Bone Rep**. 2022 Feb 23;16:101176. doi: 10.1016/j.bonr.2022.101176. eCollection 2022 Jun.PMID: 35252483

Eqp Nicolas Blanchard: **Eukaryotic pathogens : inflammation, T cell immunity and chemoresistance**

Frieser D, Pignata A, Khajavi L, Shlesinger D, Gonzalez-Fierro C, Nguyen XH, Yermanos A, Merkler D, Höftberger R, Desestret V, Mair KM, Bauer J, Masson F*, Liblau RS*. *Tissue-resident CD8+ T cells drive compartmentalized and chronic autoimmune damage against CNS neurons*. **Science Translational Medicine**. 2022 Apr 13;14(640):eabl6157. doi: 10.1126/scitranslmed.abl6157. Epub 2022 Apr 13, hal-03749044, v1.

Merkler D, Vincenti I, Masson F, Liblau RS. *Tissue-resident CD8 T cells in central nervous system inflammatory diseases: present at the crime scene and ...guilty*. **Current Opinion in Immunology**. 2022 Aug;77:102211. doi: 10.1016/j.coi.2022.102211, hal-03749081 [**Review**]

Bernard-Valnet R, Frieser D, Nguyen XH, Khajavi L, Quériault C, Arthaud S, Melzi S, Fusade-Boyer M, Masson F, Zytnicki M, Saoudi A, Dauvilliers Y, Peyron C, Bauer J, Liblau RS. *Influenza vaccination induces autoimmunity against orexinergic neurons in a mouse model for narcolepsy*. **Brain** 2022 Jun 30;145(6):2018-2030. doi: 10.1093/brain/awab455, hal-03749089, v1.

Croce C, Garrido F, Dinamarca S, Santi-Rocca J, Marion S, Blanchard N, Mayorga LS, Cebrian I. *Efficient Cholesterol Transport in Dendritic Cells Defines Optimal Exogenous Antigen Presentation and Toxoplasma gondii Proliferation* **Front Cell Dev Biol.** **2022** Mar 4;10:837574. doi: 10.3389/fcell.2022.837574. eCollection 2022. PMID: 35309938

Hassan A, Blanchard N. *Microbial (co)infections: Powerful immune influencers* **PLoS Pathog.** **2022** Feb 3;18(2):e1010212. doi: 10.1371/journal.ppat.1010212. eCollection 2022 Feb. PMID: 35113966 [Review]

Gangneux JP, Dannaoui E, Fekkar A, Luyt CE, Botterel F, De Prost N, Tadié JM, Reizine F, Houzé S, Timsit JF, Iriart X, Riu-Poulenc B, Sendid B, Nseir S, Persat F, Wallet F, Le Pape P, Canet E, Novara A, Manai M, Cateau E, Thille AW, Brun S, Cohen Y, Alanio A, Mégarbane B, Cornet M, Terzi N, Lamhaut L, Sabourin E, Desoubieux G, Ehrmann S, Hennequin C, Voiriot G, Nevez G, Aubron C, Letscher-Bru V, Meziani F, Blaize M, Mayaux J, Monsel A, Boquel F, Robert-Gangneux F, Le Tulzo Y, Seguin P, Guegan H, Autier B, Lesouhaitier M, Pelletier R, Belaz S, Bonnal C, Berry A, Leroy J, François N, Richard JC, Paulus S, Argaud L, Dupont D, Menotti J, Morio F, Soulié M, Schwebel C, Garnaud C, Guitard J, Le Gal S, Quinio D, Morcet J, Laviolle B, Zahar JR, Bougnoux ME. *Fungal infections in mechanically ventilated patients with COVID-19 during the first wave: the French multicentre MYCOVID study.* **Lancet Respir Med.** **2022** Feb;10(2):180-190. doi: 10.1016/S2213-2600(21)00442-2. Epub 2021 Nov 26. PMID: 34843666; PMCID: PMC8626095.

Guemas E, Cassaing S, Malavaud S, Fillaux J, Chauvin P, Lelièvre L, Ruiz S, Riu B, Berry A, Iriart X. *A Clustered Case Series of Mucorales Detection in Respiratory Samples from COVID-19 Patients in Intensive Care, France, August to September 2021.* **J Fungi (Basel).** **2022** Mar 3;8(3):258. doi: 10.3390/jof8030258. PMID: 35330260; PMCID: PMC8948870.

Bretagne S, Sitbon K, Desnos-Ollivier M, Garcia-Hermoso D, Letscher-Bru V, Cassaing S, Millon L, Morio F, Gangneux JP, Hasseine L, Favennec L, Cateau E, Bailly E, Moniot M, Bonhomme J, Desbois-Nogard N, Chouaki T, Paugam A, Bouteille B, Pihet M, Dalle F, Eloy O, Sasso M, Demar M, Mariani-Kurkdjian P, Robert V, Lortholary O, Dromer F; **French Mycoses Study Group**. Active Surveillance Program to Increase Awareness on Invasive Fungal Diseases: the French RESSIF Network (2012 to 2018). **mBio.** **2022** Jun 28;13(3):e0092022. doi: 10.1128/mbio.00920-22. Epub 2022 May 2. PMID: 35499498; PMCID: PMC9239099.

Tardieu L, Divard G, Lortholary O, Scemla A, Rondeau É, Accoceberry I, Agbonon R, Alanio A, Angoulvant A, Albano L, Attias P, Bellanger AP, Bertrand D, Bonhomme J, Botterel F, Bouvier N, Buchler M, Chouaki T, Crépin T, Durieux MF, Desoubieux G, Doppelt G, Favennec L, Fekkar A, Fourdinier O, Frimat M, Gangneux JP, Garandeau C, Hasseine L, Hennequin C, Iriart X, Kamar N, Kaminski H, Kormann R, Lachaud L, Legendre C, Le Quintrec Donnette M, Leroy J, Levi C, Machouart M, Marx D, Menotti J, Moal V, Morio F, Mrozek N, Nicolas M, Poirier P, Peraldi MN, Poussot B, Ranque S, Rerolle JP, Sendid B, Snanoudj R, Turret J, Vasse M, Vigneau C, Villard O, Mesnard L, Lanternier F, Rafat C. *Cryptococcal Meningitis in Kidney Transplant Recipients: A Two-Decade Cohort Study in France.* **Pathogens.** **2022** Jun 17;11(6):699. doi: 10.3390/pathogens11060699. PMID: 35745553; PMCID: PMC9227085.

Loubet D, Sarton B, Lelièvre L, Grouteau G, Iriart X, Chauvin P, Fillaux J, Valentin A, Berry A, Silva S, Bonneville F, Cassaing S, Guemas E. *Fatal mucormycosis and aspergillosis coinfection associated with haemophagocytic lymphohistiocytosis: A case report and literature review.* **J Mycol Med.** **2022** Aug 8;33(1):101325. doi: 10.1016/j.mycmed.2022.101325. Epub ahead of print. PMID: 36270214.

Pasquier G, Demar M, Lami P, Zribi A, Marty P, Buffet P, Desbois-Nogard N, Gangneux JP, Simon S, Blaizot R, Couppié P, Thiebaut L, Pratlong F, Dedet JP, Bastien P, Sterkers Y, Ravel C, Lachaud L; **Working Group for the Notification of Human Leishmanioses in France**. Leishmaniasis epidemiology in endemic areas of metropolitan France and its overseas territories from 1998 to 2020. **PLoS Negl Trop Dis**. 2022 Oct 7;16(10):e0010745. doi: 10.1371/journal.pntd.0010745. PMID: 36206322; PMCID: PMC9624409.

Moniot M, Nourrisson C, Bonnin V, Damiani C, Argy N, Bonhomme J, Fréalle E, Angebault C, Debourgogne A, Sitterlé E, Flori P, Brunet J, Dalle F, Favennec L, Poirier P; **French Microsporidiosis Network**. Evaluation of the Bio-Evolution Microsporidia generic and typing real-time PCR assays for the diagnosis of intestinal microsporidiosis. **Parasite**. 2022;29:55. English. doi: 10.1051/parasite/2022055. Epub 2022 Nov 25. PMID: 36426934.

Costa D, Razakandrainibe R, Basmaciyan L, Raibaut J, Delaunay P, Morio F, Gargala G, Villier V, Mouhajir A, Levy B, Rieder C, Larreche S, Lesthelle S, Coron N, Menu E, Demar M, de Santi VP, Blanc V, Valot S, Dalle F, Favennec L; **French National Network on Surveillance of Human Cryptosporidiosis**. A summary of cryptosporidiosis outbreaks reported in France and overseas departments, 2017-2020. **Food Wa-terborne Parasitol**. 2022 Apr 29;27:e00160. doi: 10.1016/j.fawpar.2022.e00160. PMID: 35586547; PMCID: PMC9108463

Mansuy JM, Kenfack MT, Burel S, Pollani C, Bidzogo Lebobo M, Ekaé CO, Berry A, Izopet J. High SARS-CoV-2 IgG seroprevalence among pregnant Cameroun women 14 months after the beginning of the pandemic. **Public Health**. 2022 Sep 20:S0033-3506(22)00260-8. doi: 10.1016/j.puhe.2022.09.005. Epub ahead of print. PMID: 36270828; PMCID: PMC9485418.

Loubet D, Sarton B, Lelièvre L, Grouteau G, Iriart X, Chauvin P, Fillaux J, Valentin A, Berry A, Silva S, Bonneville F, Cassaing S, Guemas E. Fatal mucormycosis and aspergillosis coinfection associated with haemophagocytic lymphohistiocytosis: A case report and literature review. **J Mycol Med**. 2022 Aug 8;33(1):101325. doi: 10.1016/j.mycmed.2022.101325. Epub ahead of print. PMID: 36270214.

Magnaval JF, Fillaux J, Berry A. A Retrospective Study of the Efficacy of Albendazole and Diethylcarbamazine for the Treatment of Human Toxocariasis. **Pathogens**. 2022 Jul 20;11(7):813. doi: 10.3390/pathogens11070813. PMID:35890057; PMCID: PMC9317386.

Sarah-Matio EM, Guillochon E, Nsango SE, Abate L, Ngou CM, Bouopda GA, Feufack-Donfack LB, Bayibéki AN, Tchioffo Tsapi M, Talman A, Marin-Menendez A, Ayong L, Claessens A, Lefèvre T, Berry A, Morlais I. Genetic Diversity of Plasmodium falciparum and Distribution of Antimalarial Drug Resistance Mutations in Symptomatic and Asymptomatic Infections. **Antimicrob Agents Chemother**. 2022 Aug 16;66(8):e0018822. doi: 10.1128/aac.00188-22. Epub 2022 Jul 6. PMID: 35862750; PMCID: PMC9380546.

Rousset S, Zenou M, Saunier A, Varenne F, Soler V, Tournier E, Legrand L, Lachaud L, Buffet P, Berry A, Delobel P, Martin-Blondel G. Immune recovery-related patterns of post kala-azar dermal and ocular leishmaniasis in people living with HIV. **AIDS**. 2022 Nov 1;36(13):1819-1827. doi:10.1097/QAD.0000000000003336. Epub 2022 Jul 16. PMID: 35848585.

Avignon M, Lévêque MF, Guemas E, Sasso M, Albaba S, Lachaud L, Fillaux J. Diagnosis of Congenital Toxoplasmosis: Performance of Four IgG and IgM Automated Assays at Birth in a Tricentric Evaluation. **J Clin Microbiol**. 2022 May 18;60(5):e0011522. doi: 10.1128/jcm.00115-22. Epub 2022 May 2. PMID: 35491823; PMCID: PMC9116181.

Eqp Daniel Dunia / Célile Malnou: **Pathogenesis of viral infections of the developping and adult central nervous system**

Martin C*, Bergamelli M*, Malnou CE\$, D'Angelo G\$. *Placental extracellular vesicles in maternal-fetal communication during pregnancy*. **Biochem Soc Trans**. 2022 Dec 9;BST20220734. doi: 10.1042/BST20220734. * Co-first \$ Co-last, co-corresponding

Tarbouriech N, Chenavier F, Kawasaki J, Bachiri K, Bourhis JM, Legrand P, Freslon LL, Laurent EMN, Suberbielle E, Ruigrok RWH, Tomonaga K, Gonzalez-Dunia D, Horie M, Coyaoud E, Crépin T. *Borna Disease Virus 1 Phosphoprotein Forms a Tetramer and Interacts with Host Factors Involved in DNA Double-Strand Break Repair and mRNA Processing* **Viruses**. 2022 Oct 26;14(11):2358. doi: 10.3390/v14112358.

Bergamelli M, Martin H, Aubert Y, Mansuy JM, Marcellin M, Burlet-Schiltz O, Hurbain I, Raposo G, Izopet J, Fournier T, Benchoua A, Bénard M, Groussolles M, Cartron G, Tanguy Le Gac Y, Moinard N, D'Angelo G, Malnou CE. *Human Cytomegalovirus Modifies Placental Small Extracellular Vesicle Composition to Enhance Infection of Fetal Neural Cells In Vitro* **Viruses**. 2022 Sep 13;14(9):2030. doi: 10.3390/v14092030.

Fourgeaud J, Magny JF, Couderc S, Garcia P, Maillotte AM, Benard M, Pinquier D, Minodier P, Astruc D, Patural H, Ugolin M, Parat S, Guillois B, Garenne A, Guillemainot T, Parodi M, Bussièrès L, Ville Y, Leruez-Ville M. *Clinical value of serial quantitative analysis of cytomegalovirus DNA in blood and saliva over the first 24 months of life congenital infection: the French Cymepedia Cohort*. **J Pediatr**. 2022 Sep 28:S0022-3476(22)00862-9. doi: 10.1016/j.jpeds.2022.09.040.

Gonzalez-Dunia D, Bourgade K. *Quelle est la réalité des infections humaines par les Bornavirus ?* **Virologie (Montrouge)**. 2022 Jul 1;26(4):275-281. doi: 10.1684/vir.2022.0965.

Martin H*, Barthelemy J*, Chin Y, Bergamelli M, Moinard N, Cartron G, Tanguy Le Gac Y, Malnou CE\$, Simonin Y\$. *Usutu Virus Infects Human Placental Explants and Induces Congenital Defects in Mice*. **Viruses**. 2022 Jul 25;14(8):1619. doi: 10.3390/v14081619. * Co-first \$ Co-last, co-corresponding

Eqp Jacques Izopet / Bernard Lagane: Viral Infection : persistence, host response and pathophysiology

C. Vellas, A. Del Bello, A. Debar, Z. Steinmeyer, L. Tribaudeau, N. Ranger, N. Jeanne, G. Martin-Blondel, P. Delobel, N. Kamar, J. Izopet. *Influence of treatment with neutralizing monoclonal antibodies on the SARS-CoV-2 quaspecies in patients with COVID-19*. **Clin Microbiol Infect** 2022;28:139.e5-139.e8.

M. Miguères, C. Dimeglio, P. Trémeaux, S. Raymond, S. Lhomme, I. Da Silva, K. Oliveira Mendes, F. Abravanel, MP. Félicé, JM. Mansuy, J. Izopet. *Influence of the Delta variant and vaccination on the SARS-CoV-2 viral load*. **Viruses** 2022;14:323.

C. Dimeglio, F. Hérin, G. Martin-Blondel, M. Miedougé, J. Izopet. *Antibody titers and protection against a SARS-CoV-2 infection*. **J Infect** 2022;84:248-288.

A. Del Bello, F. Abravanel, O. Marion, C. Couat, L. Esposito, L. Lavayssière, J. Izopet, N. Kamar. *Efficiency of a boost with a third dose of anti-SARS-CoV-2 messenger RNA-based vaccines in solid organ transplant recipients*. **Am J Transplant** 2022;22:322-323.]

S. Chapuy-Regaud, C. Allieux, N. Capelli, M. Miqueres, S. Lhomme, J. Izopet. *Vectorial release of human RNA viruses from epithelial cells*. **Viruses** 2022;14:231.

C. Dimeglio, F. Herin, I. Da Silva, M. Porcheron, G. Martin-Blondel, M. Miedougé, J. Izopet. *Strong Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) neutralizing antibody response of previously infected healthcare workers given 1 dose of mRNA vaccine*. **Clin Infect Dis** 2022;74:746.

A. Jourdes, M. Lafaurie, G. Moulis, P. Delobel, M. Faruch, A. Sommet, G. Martin-Blondel. *Comparison of the first and second waves of coronavirus disease in Toulouse, France*. **Infect Dis Now** 2022;52:49-52.

C. Vellas, A. Del Bello, G. Gaube, P. Trémeaux, N. Jeanne, N. Ranger, G. Martin-Blondel, P. Delobel, N. Kamar, J. Izopet. *Impact of Casirivimab-Imdevimab on SARS-CoV-2 delta variant nasopharyngeal virus load and Spike quasispecies*. **Open Forum Infect Dis** 2022;9:ofac093.

C. Dimeglio, M. Miqueres, JM. Mansuy, S. Saivin, M. Miedougé, S. Chapuy-Regaud, J. Izopet. *Antibody titers and breakthrough infections with Omicron SARS-CoV-2*. **J Infect** 2022;84:e13-e15.

N. Kamar, A. Gouin, J. Izopet. *Omicron breakthrough infection in a kidney-transplant patient given pre-exposition casirivimab and imdevimab monoclonal antibodies*. **Transplant Infect Dis** 2022;24:e13803.

C. Dimeglio, F. Herin, I. Jougla, C. Pradère, I. Da-Silva, M. Porcheron, G. Martin-Blondel, S. Chapuy-Regaud, J. Izopet. *Heterologous ChAdOx1-S/BNT162b2 vaccination : neutralizing antibody response to SARS-CoV-2*. **Clin Infect Dis** 2022;74:1315-1316.

M. Miqueres, C. Dimeglio, P. Trémeaux, F. Abravanel, S. Raymond, S. Lhomme, J.M Mansuy, J. Izopet. *Influence of immune escape and nasopharyngeal virus load on the spread of SARS-CoV-2 Omicron variant*. **J Infect** 2022;84:e7-e9.

F. Abravanel, O. Marion, A. Del Bello, T. Beunon, R. Romieu-Mourez, C. Couat, M. Pucelle, L. Staes, J. Guitard, L. Esposito, S. Faguer, N. Kamar, J. Izopet. *Humoral and cellular immune responses of solid organ transplant patients on belatacept to three doses of mRNA-based anti-SARS-CoV2 vaccine*. **Vaccines** 2022;10:354.

C. Dimeglio, A. Del Bello, S. Chapuy-Regaud, L. Esposito, C. Danet, C. Couat, J. Izopet, N. Kamar. *Casirivimab-imdevimab to prevent SARS-CoV-2 infections in solid-organ transplant recipients*. **Transplantation** 2022;106:e275-e276.

C. Dimeglio, JM. Loubes, M. Miqueres, K. Sauné, P. Trémeaux, S. Lhomme, N. Ranger, J. Latour, JM. Mansuy, J. Izopet. *Influence of vaccination and prior immunity on the dynamics of Omicron BA.1 and BA.2 sub-variants*. **J Infect** 2022;84:834-872.

Y. Renaudineau, F. Abravanel, J. Izopet, C. Bost, E. Treiner, N. Congy, A. Blancher. *Novel interferon Gamma Release assay (IGRA) using Spike and Nucleocapsid recombinant proteins to evaluate COVID19 vaccine response and SARS-Cov2 transmission.* **Clin Immunol** 2022;237:108979.

N. Kamar, F. Abravanel, O. Marion, L. Esposito, AL. Hebral, C. Médrano, J. Guitard, L. Lavayssière, O. Cointault, MB. Nogier, J. Bellière, S. Faguer, C. Couat, A. Del Bello, J. Izopet. *Anti-SARS-CoV-2 spike protein and neutralizing antibodies at one and 3 months after 3 doses of SARS-CoV-2m RNA vaccine in a large cohort of solid-organ-transplant patients.* **Am J Transplant** 2022;22:1467-1474.

F. Abravanel, D. Parraud, S. Chapuy-Regaud, M. Miedouge, E. Bonnin, M. Larrieu, A. Aversenq, S. Lhomme and J. Izopet. *Diagnostic performance of an automated system for assaying anti-hepatitis E virus immunoglobulins M and G.* **Viruses** 2022;14:1065.

C. Dimeglio, M. Miguères, S. Chapuy-Regaud, I. Da-Silva, I. Jouglu, C. Pradere, M. Porcheron, G. Martin-Blondel, C. Lougarre, F. Hérin, J. Izopet. *Comparative effect of mRNA vaccine booster and natural Omicron infection on the neutralizing antibody response.* **J Infect** 2022;85:e4-e6.

JM. Mansuy, M. Miguères, P. Trémeaux, J. Izopet. *Will the latest wave of the COVID pandemic be an ecological disaster?* **Health Science Reports** 2022;5:e703.

C. Dimeglio, F. Hérin, I. Da-Silva, M. Porcheron, G. Martin-Blondel, S. Chapuy-Regaud, J. Izopet. *Post-vaccination SARS-CoV-2 antibody kinetics and protection duration.* **Clin Infect Dis** 2022;75:e924-925.

S. Lhomme, A. Fayard, S. Mirafzal, R. Carcenac, P. Boyer, J. Latour, A. Brebion, JO. Bay, C. Henquell, J. Izopet. *Persistence of hepatitis E virus in the cerebrospinal fluid despite apparently successful ribavirin therapy.* **J Antimicrob Chemoth** 2022;77:2300-2303.

C. Dimeglio, F. Hérin, I. Da-Silva, C. Gernigon, M. Porcheron, S. Chapuy-Regaud, J. Izopet. *Decreased efficiency of neutralizing antibodies from previously infected or vaccinated individuals against the B.1.617.2 (Delta) SARS-CoV-2 variant.* **Microbiol Spectr** 2022;10:e0270621.

C. Vellas, N. Kamar, J. Izopet. *Resistance mutations in SARS-CoV-2 omicron variant after tixagevimab-cilgavimab treatment.* **J Infect** 2022;85:e162-163.

A. Del Bello, O. Marion, J. Izopet, N. Kamar. *Can COVID-19 pandemic improve the management of solid-organ-transplant recipients?* **Viruses** 2022;14:1860.

C. Dimeglio, M. Miguères, N. Bouzid, S. Chapuy-Regaud, C. Gernigon, I. Da Silva, M. Porcheron, G. Martin-Blondel, F. Hérin, J. Izopet, *Antibody titers and infections with SARS-CoV-2 Omicron BA.1 and BA.2.* **Vaccines** 2022;10:1548.

M. Bergamelli, H. Martin, Y. Aubert, JM. Mansuy, M. Marcellin, O. Burlet-Schiltz, I. Hurbain, G. Raposo, J. Izopet, A. Benchoua, M. Bénard, M. Groussolles, G. Cartron, YT. Le Gac, N. Moinard, G. D'Angelo, C. Malnou. *Human cytomegalovirus modifies placental small*

extracellular vesicle secretion and composition towards a proviral phenotype to enhance infection of fetal recipient cells. **Viruses** 2022;14:2030.

Y. Renaudineau, L. Sailler, F. Abravanel, J. Izopet, A. Delourme, D. Biotti, J. Ciron, E. Treiner, N. Congy, C. Bost, A. Blancher. *Glucocorticoid use as a cause of non-cellular immune response to SARS-CoV-2 Spike in patients with immune system diseases.* **J Autoimmun** 2022;133:102912.

A. Del Bello, N. Kamar, O. Marion, J. Izopet, F. Abravanel. *Humoral and cellular responses to a delayed fourth SARS-CoV-2 mRNA-based vaccine in weak responders to 3 doses kidney transplant recipients.* **Vaccines** 2022;10:1439.

S. Faguer, A. Del Bello, C. Danet, Y. Renaudineau, J. Izopet, N. Kamar. *Apolipoprotein-A-I for COVID-19-associated cytokine storm.* **Front Pharmacol** 2022;13:936659.

L. Gerard, M. Garzaro, V. Ferrer, M. Malphettes, C. Fieschi, JL. Garnier, N. Just, A. Masseau, C. Delaugerre, J. Izopet. *Hepatitis E infection in adults with primary immunodeficiency with or without immunoglobulin replacement therapy.* **Blood Transfus** 2022;20:516-524.

C. Dombrowski, G. Weston, P. Descamps, J. Izopet, E. Adams. *Health economic evaluation of an mRNA high-risk human papillomavirus (HR-HPV) assay versus a DNA HR-HPV assay for the proposed French cervical screening programme.* **Medicine** 2022;101:e29530.

C. Vellas, P. Trémeaux, A. Del Bello, J. Latour, N. Ranger, C. Danet, G. Martin-Blondel, P. Delobel, N. Kamar, J. Izopet. *Resistance mutations in SARS-CoV-2 Omicron variant in patients treated with sotrovimab.* **Clin Microbiol Infect** 2022;28:1297-1299.

P. Combes, M. Bisseux, A. Bal, P. Marin, J. Latour, C. Archimbaud, A. Brebion, H. Chabrolles, C. Regagnon, J. Lafolie, G. Destras, B. Simon, J. Izopet, L. Josset, C. Henquell, A. Mirand. *Evidence of co-infections during Delta and Omicron SARS-CoV-2 variants co-circulation through prospective screening and sequencing.* **Clin Microbiol Infect** 2022;28:1503.e5-1503.e8.

N. Kamar, A. Del Bello, F. Abravanel, Q. Pan, J. Izopet. *Unmet needs for the treatment of chronic hepatitis E virus infection in immunocompromised patients.* **Viruses** 2022;14:2116.

AC. Kouamen, H. Da Cruz, M. Hamidouche, A. Lamy, A. Lloyd, J. Castro Alvarez, M. Rousset, L. Josset, V. Enouf, C. Felici, G. Dos Santos, J. Schaeffer, A. Maisa, *Regional COVID-19 Investigation Group and Laboratory Group. Rapid investigation of BA.4/BA.5 cases in France.* **Front Public Health** 2022;10:1006631.

D. Péricat, SAL. Icaza, M. Sanchez Rico, C. Mühle, I. Zoicas, F. Schumacher, G. Gros, A. Carpinteiro, KA. Becker, J. Izopet, N. Strub-Wourgaft, P. Sjo, O. Neyrolles, B. Kleuser, F. Limosin, E. Gulbins, J. Kornhuber, E. Meunier, N. Hoertel, C. Cougoule. *Antiviral and anti-inflammatory activities of Fluoxetine in a SARS-CoV-2 infection mouse model.* **Int J Mol Sci** 2022;23:13623.

S. Lhomme. Recent Progress in Hepatitis A Virus Research. **Viruses** 2022;14 :1138.

Z. Ma, RA de Man, N. Kamar, Q. Pan. *Chronic hepatitis E: Advancing research and patient care.* **J Hepatol** 2022;77:1109-1123.

P. Li, AC. de Vries, N. Kamar, MP. Peppelenbosch, Q. Pan. *Monitoring and managing SARS-CoV-2 evolution in immunocompromised populations.* **Lancet Microbe** 2022;3:e325-e326.

Y. Li, P. Li, Q. He, R. Zhang, Y. Li, N. Kamar, MP. Peppelenbosch, RA. de Man, L. Wang, Q. Pan. *Niclosamide inhibits hepatitis E virus through suppression of NF-kappaB signalling.* **Antiviral Res** 2022;197:105228.

J. Li, I. Ayada, Y. Wang, CM. den Hoed, N. Kamar, MP. Peppelenbosch, AC. de Vries, P. Li, Q. Pan. *Factors Associated With COVID-19 Vaccine Response in Transplant Recipients: A Systematic Review and Meta-analysis.* **Transplantation** 2022;106:2068-2075.

J. Gueguen, C. Colosio, A. Del Bello, A. Scemla, Y. N'Guyen, C. Rouzaud, C. Carvalho-Schneider, G. Gautier Vargas, P. Tremolières, A. Jalal Eddine, C. Masset, O. Thaunat, M. Chabannes, P. Malvezzi, P. Pommerolle, L. Couzi, N. Kamar, S. Caillard, P. Gatault. *Early Administration of Anti-SARS-CoV-2 Monoclonal Antibodies Prevents Severe COVID-19 in Kidney Transplant Patients.* **Kidney Int Rep** 2022;7:1241-1247.

B. Berger, M. Hazzan, N. Kamar, H. Francois, M. Matignon, C. Greze, P. Gatault, L. Frimat, PF. Westeel, V. Goutaudier, R. Snanoudj, C. Colosio, A. Sicard, D. Bertrand, C. Mousson, J. Bamoulid, A. Thierry, D. Anglicheau, L. Couzi, JM. Chemouny, A. Duveau, V. Moal, Y. Le Meur, G. Blancho, J. Tourret, P. Malvezzi, C. Mariat, JP Rerolle, N. Bouvier, S. Caillard, O. Thaunat, *French Solid Organ Transplant (SOT) COVID Registry. Absence of Mortality Differences Between the First and Second COVID-19 Waves in Kidney Transplant Recipients.* **Kidney Int Rep** 2022;7 :2617-2629.

PA. Grossi, N. Kamar, F. Saliba, F. Baldanti, JM. Aguado, J. Gottlieb, B. Banas, L. Potena. *Cytomegalovirus Management in Solid Organ Transplant Recipients: A Pre-COVID-19 Survey From the Working Group of the European Society for Organ Transplantation.* **Transpl Int** 2022;35:10332.

S. Rousset, M. Zenou, A. Saunier, F. Varenne, V. Soler, E. Tournier, L. Legrand, L. Lachaud, P. Buffet, A. Berry, P. Delobel, G. Martin-Blondel. *Immune recovery-related patterns of post kala-azar dermal and ocular leishmaniasis in people living with HIV.* **AIDS** 2022;36:1819-1827.

R. Lajaunie, L. Cuzin, R. Palich, A. Makinson, F. Bani-Sadr, C. Duvivier, C. Arvieux, D. Rey, I. Poizot-Martin, C. Delpierre, P. Delobel, G. Martin-Blondel, And The Dat'AIDS study group. *No increased risk of Kaposi sarcoma relapse in patients with controlled HIV-1 infection after switching protease inhibitor-based antiretroviral therapy.* **HIV Med** 2022;23 :301-306.

E. Champagne. *Gamma Delta T Cells in Immune Response against Viruses.* **Viruses** 2022;14:736.

M. Han, V. Cantaloube-Ferrieu, M. Xie, M. Armani-Tourret, M. Woottum, JC. Pagès, P. Colin, B. Lagane, S. Benichou. *HIV-1 cell-to-cell spread overcomes the virus entry block of non-macrophage-tropic strains in macrophages.* **Plos Pathog** 2022;18:e1010335.

F. Momboisse, G. Nardi, P. Colin, M. Hery, N. Cordeiro, S. Blachier, O. Schwartz, F. Arenzana-Seisdedos, N. Sauvonnnet, JC. Olivo-Marin, B. Lagane, T. Lagache, A. Brelot. *Tracking receptor motions at the plasma membrane reveals distinct effects of ligands on CCR5 dynamics depending on its dimerization status*. **Elife** 2022;11:e76281.

Espino, J. Gouilly, Q. Chen, P. Colin, P. Guerby, J. Izopet, A. Amara, J. Tabiasco, R. Al-Daccak, H. El Costa, N. Jabrane-Ferrat. *The mechanisms underlying the immune control of Zika virus infection at the maternal-fetal interface*. **Front Immunol** 2022;13:1000861.

Carapito R, Aouadi I, Verniquet M, Untrau M, Pichot A, Beaudrey T, Bassand X, Meyer S, Faucher L, Posson J, Morlon A, Kotova I, Delbos F, Walencik A, Aarnink A, Kennel A, Suberbielle C, Taupin JL, Matern BM, Spierings E, Congy-Jolivet N, Essaydi A, Perrin P, Blancher A, Charron D, Cereb N, Maumy-Bertrand M, Bertrand F, Garrigue V, Pernin V, Weekers L, Naesens M, Kamar N, Legendre C, Glotz D, Caillard S, Ladrière M, Giral M, Anglicheau D, Süsal C, Bahram S. *The MHC class I MICA gene is a histocompatibility antigen in kidney transplantation*. **Nat Med**. 2022 May;28(5):989-998. doi: 10.1038/s41591-022-01725-2. Epub 2022 Mar 14.

S. Lhomme, N. Jeanne, P. Trémeaux, M. Miguères, N. Ranger, J. Latour, G. Salin, C. Donnadiou, J. Izopet. *Prediction of the SARS-CoV-2 variant lineages using the S1-encoding region sequence obtained by PacBio single-molecule, real-time sequencing*. **Viruses** (in press).

J. Izopet, N. Kamar. *Hepatitis A and E Viruses*. **Manual of Clinical Microbiology** (in press).

M. Miguères, C. Dimeglio, JM. Mansuy, F. Abravanel, S. Raymond, J. Latour, N. Jeanne, N. Ranger, S. Lhomme, K. Sauné, P. Trémeaux, J. Izopet. *The influence of the nasopharyngeal viral load on the spread of the Omicron BA.2 variant*. **Clin Infect Dis** (in press).

S. Laperche, C. Maugard, S. Lhomme, S. Lecam, C. Ricard, I. Dupont, P. Richard, P. Tiberghien, F. Abravanel, P. Morel, J. Izopet, P. Gallian. *Seven-years (2015-2021) of blood donor screening for HEV-RNA in France : lessons and perspective*. **Blood Transfus** (in press).

F. Nicot, J. Latour, P. Trémeaux, N. Ranger, S. Raymond, C. Dimeglio, G. Salin, C. Donnadiou, J. Izopet. *Whole genome sequencing of SARS-CoV-2 : comparison of target capture and amplicon single molecule real time sequencing protocols*. **J Med Virol** (in press).

JM. Mansuy, M. Kenfack, S. Burel, C. Pollani, M. Lebobo, C. Ekaé, A. Berry, J. Izopet. *High SARS-CoV-2 IgG seroprevalence among pregnant Cameroun women 14 months after the beginning of the pandemic*. **Public Health** (in press).

M. Miguères, S. Chapuy-Regaud, M. Miedougé, C. Lougarre, I. Da Silva, M. Pucelle, L. Staes, M. Porcheron, C. Dimeglio, J. Izopet. *Current immunoassays and detection of antibodies induced by Omicron SARS-CoV-2 infection*. **J Med Virol** (in press).

X. de Lamballerie, G. Martin-Blondel, A. Dupont, J. Izopet, F. Mentré, N. Kamar, B. Autran, G. Paintaud, S. Caillard, A. le Bourgeois, C. Richez, L. Couzi, A. Xhaard, Z. Marjanovic, J. Avouac, C. Jacquet, D. Anglicheau, M. Cheminant, Y. Yazdanpanah, S. N'Guyen, B. Terrier, JE. Gottenberg, C. Besson, S. Letrou, S. Kali, D. Angoulvant, V. Petrov Sanchez, C. Tardivon,

G. Blanco, V. Lévy. *Low serum neutralization of Omicron variants a month after AZD7442 prophylaxis initiation.* **J Infect** (in press).

M. Miguères, JM. Mansuy, S. Vasseur, N. Claverie, C. Lougarre, F. Soulier, P. Trémeaux, J. Izopet. *Omicron wave SARS-CoV-2 diagnosis: evaluation of saliva, anterior nasal and nasopharyngeal swab samples.* **Microbiol Spectr** (in press). [IF 9.043]

S. Raymond, N. Jeanne, F. Nicot, C. Dimeglio, R. Carcenac, A. Harter, N. Ranger, G. Martin-Blondel, P. Delobel and J. Izopet. *HIV-1 resistance genotyping by ultra-deep sequencing and virological response to first-line treatment.* **J Antimicrob Chemoth** (in press).

J. Cornet, P. Pereira, L. Salomé, F. Daumas, B. Lagane, N. Destainville, M. Manghi, F. Dumas, *Protein overexpression can induce the elongation of cell membrane nanodomains.* **Biophys J** (in press).

Eqp Nabila Jabrane Ferrat : **Immunology of pregnancy and stem cells**

Espino A, Gouilly G, Chen Q, Colin P, Guerby P, Izopet J, Amara A, Tabiasco J, Al-Daccak R, El Costa H, Jabrane-Ferrat N. *The mechanisms underlying the immune control of Zika virus infection at the maternal-fetal interface.* **Online ahead of print**, doi: 10.3389/fimmu.2022.1000861.

Jabrane-Ferrat N, El Costa H. *Decidua Basalis: An Ex Vivo Model to Study HIV-1 Infection During Pregnancy and Beyond.* **Methods Mol Biol.** 2022;2407:205-213. doi: 10.1007/978-1-0716-1871-4_15.PMID: 34985667.

Tétu A, Guerby P, Rallu F, Duperron L, Morin V, Bujold E. *Mid-trimester microbial invasion of the amniotic cavity and the risk of preterm birth.* **J Matern Fetal Neonatal Med.** 2022 Nov;35(21):4071-4074. doi: 10.1080/14767058.2020.1846704.

Planès R, Bahraoui E. *SARS-CoV-2 Innate and Adaptive Immune Responses.* **Viruses.** 2022 Oct 26;14(11):2363. doi: 10.3390/v14112363.PMID: 36366460.

Planès R, Bert JB, Tairi S, BenMohamed L, Bahraoui E. *SARS-CoV-2 Envelope (E) Protein Binds and Activates TLR2 Pathway: A Novel Molecular Target for COVID-19 Interventions.* **Viruses.** 2022 May 8;14(5):999. doi: 10.3390/v14050999.PMID: 35632741.

Eqp Joost van Meerwijk / Olivier Joffre: **Integrative T cell Immunobiology**

Apert C, et al. *IL-2 and IL-15 drive intrathymic development of distinct periphery-seeding CD4⁺Foxp3⁺ regulatory T lymphocytes* **Front Immunol.** 2022.

Eqp Sylvie Guerder / Nicolas Fazilleau: **Antigen presenting cells and CD4T cell responses**

Yang C, Blaize G, Marrocco R, Rouquié N, Bories C, Gador M, Mélique S, Joulia E, Benamar M, Dejean AS, Daniels-Treffandier H, Love PE, Fazilleau N, Saoudi A, Lesourne R. *THEMIS enhances the magnitude of normal and neuroinflammatory type 1 immune responses by promoting TCR-independent signals.* **Sci Signal.** 2022 Jul 12;15(742):eabl5343. doi: 10.1126/scisignal.abl5343. Epub 2022 Jul 12.

Kemoun P, Ader I, Planat-Benard V, Dray C, Fazilleau N, Monsarrat P, Cousin B, Paupert J, Ousset M, Lorisgnol A, Raymond-Letron I, Vellas B, Valet P, Kirkwood T, Beard J, Pénicaud

L, Casteilla L. *A gerophysiology perspective on healthy ageing* **Ageing Res Rev.** 2022 Jan;73:101537. doi: 10.1016/j.arr.2021.101537.

. Aloulou M, Fazilleau N. *The Use of Peptide-MHCII Tetramers to Identify Antigen-Specific T Follicular Helper and T Follicular Regulatory Cells* **Methods Mol Biol.** 2022;2380:141-147. doi: 10.1007/978-1-0716-1736-6_12.

Eqp Renaud Lesourne / Loic Dupré: **Integrative mapping of lymphocytes signaling and function**

Yang C, Blaize G, Marrocco R, Rouquié N, Bories C, Gador M, Mélique S, Joulia E, Benamar M, Dejean AS, Daniels-Treffandier H, Love PE, Fazilleau N, Saoudi A, Lesourne R. *THEMIS enhances the magnitude of normal and neuroinflammatory type 1 immune responses by promoting TCR-independent signals.* **Sci Signal.** 2022 Jul 12;15(742):eabl5343.

Mélique S, Yang C, Lesourne R. *Negative times negative equals positive, THEMIS sets the rule on thymic selection and peripheral T cell responses.* **Biomed J.** 2022 Apr;45(2):334-346.

Nicoli F, Cabral-Piccin MP, Papagno L, Gallerani E, Fusaro M, Folcher V, Dubois M, Clave E, Vallet H, Frere JJ, Gostick E, Llewellyn-Lacey S, Price DA, Toubert A, Dupré L, Boddaert J, Caputo A, Gavioli R & Appay V. *Altered basal lipid metabolism underlies the functional impairment of naive CD8⁺ T cells in elderly humans.* **J Immunol**, 2022, 208:1.

Magnani A, Semeraro M, Adam F, Booth C, Dupré L, Morris EC, Gabrion A, Roudaut C, Borgel D, Toubert A, Clave E, Abdo C, Gorochoy G, Petermann R, Guiot M, Miyara M, Moshous D, Magrin E, Denis A, Suarez F, Lagresle C, Roche AM, Everett J, Trinquand A, Guisset M, Xu-Bayford J, Hacein-Bey-Abina S, Kauskot A, Elfeky R, Rivat C, Abbas S, Gaspar HB, Macintyre E, Picard C, Bushman FD, Galy A, Fischer A, Six E, Thrasher AJ & Cavazzana M. *Long-term Outcome After Lentiviral Hematopoietic Stem/Progenitor Cell Gene Therapy for Wiskott-Aldrich Syndrome.* **Nat Med**, 2022, 28:71-80.

van Steijn L, Wortel I, Sire C, Dupré L, Theraulaz G & Merks R. *Computational modelling of cell motility modes emerging from cell-matrix adhesion dynamics.* **PLOS Comput Biol**, 2022, 18:e1009156.

Prunier G, Chaves B, Lacouture C & Dupré L. *Metrics of 2D immunological synapses in human T cells via high-content confocal cell imaging.* **Meth Cell Biol**, 2022, doi:10.1016/bs.mcb.2022.07.013.

Lacouture C, Prunier G & Dupré L. *Kinetic measurements of human CD8⁺ T cell cytotoxic activity in a 384-well plate format.* **Meth Cell Biol**, 2022, doi:10.1016/bs.mcb.2022.07.014.

Prunier G & Dupré L. *Deciphering actin remodelling in immune cells through the prism of actin-related Inborn Errors of Immunity.* **Eur J Cell Biol**, in press.

Eqp Manuel Diaz-Munoz: **Post-transcriptional regulation of the adaptive immune response and tumorigenesis**

Osma-Garcia IC, Capitan-Sobrinho D, Mouysset M, Aubert Y, Maloudi O, Turner M, Díaz-Muñoz MD. *The splicing regulators TIA1 and TIAL1 are required for the expression of the DNA damage repair machinery during B cell lymphopoiesis* **Cell Reports**. In press

Matheson LS, Petkau G, Sáenz-Narciso B, D'Angeli V, McHugh J, Newman R, Munford H, West J, Chakraborty K, Roberts J, Łukasiak S, Díaz-Muñoz MD, Bell SE, Dimeloe S, Turner M. *Multimomics analysis couples mRNA turnover and translational control of glutamine metabolism to the differentiation of the activated CD4⁺ T cell*. **Sci Rep**. 2022 Nov 16;12(1):19657. doi: 10.1038/s41598-022-24132-6.PMID: 36385275 **Free PMC article**.

Cacheiro-Llaguno C, Hernández-Subirá E, Díaz-Muñoz MD, Fresno M, Serrador JM, Íñiguez MA. *Regulation of Cyclooxygenase-2 Expression in Human T Cells by Glucocorticoid Receptor-Mediated Transrepression of Nuclear Factor of Activated T Cells* **Int J Mol Sci**. 2022 Oct 31;23(21):13275. doi: 10.3390/ijms232113275.PMID: 36362060 **Free PMC article**.

Vivet-Noguer R, Tarin M, Canbezdi C, Dayot S, Silva L, Houy A, Martineau S, Mieulet V, Gentric G, Loew D, Lombard B, Nemati F, Richon S, Guyonnet L, Servois V, Vagner S, Stern MH, Roman-Roman S, Alsafadi S. *Glycolysis Dependency as a Hallmark of SF3B1-Mutated Cells* **Cancers (Basel)**. 2022 Apr 24;14(9):2113. doi: 10.3390/cancers14092113.PMID: 35565242 **Free PMC article**.

Díaz-Muñoz MD, Osma-Garcia IC. The RNA regulatory programs that govern lymphocyte development and function. **Wiley Interdiscip Rev RNA**. 2022 Jan;13(1):e1683. doi: 10.1002/wrna.1683. Epub 2021 Jul 29.PMID: 34327847 Review.

Eqp Laurent Reber : Asthma, Allergy and Immunotherapy

Todorova B, Godon O, Conde E, Gillis CM, Iannascoli B, Richard-Le Goff O, Fiole D, Roumenina LT, Leusen JHW, Murphy AJ, Macdonald LE, Reber LL, Jönsson F, Bruhns P. *IgG Subclass-Dependent Pulmonary Antigen Retention during Acute IgG-Dependent Systemic Anaphylaxis in Mice*. **J Immunol**. 2022 Oct 1;209(7):1243-1251.

Kamphuis JBJ, Reber L, Eutamène H, Theodorou V. *Increased fermentable carbohydrate intake alters colonic mucus barrier function through glycation processes and increased mast cell counts*. **FASEB J**. 2022 May;36(5):e22297.

Conde E, Serra V, Bruhns P, Reber LL. *A vaccine targeting the cytokines IL-4 and IL-13 protects against allergic asthma in mice*. **Med Sci (Paris)**. 2022 Jan;38(1):25-27.

Guilleminault L, Chazelas P, Melloni B, et al. *Repeat Expansions of RFC1 in Refractory Chronic Cough: a Missing Piece of the Puzzle?* **Chest**. 2022. Nov 17:S0012-3692(22)04162-9. doi: 10.1016/j.chest.2022.11.014.

Guilleminault L, Conde E, Reber LL. *Pharmacological approaches to target type 2 cytokines in asthma*. **Pharmacol Ther**. 2022;237:108167.

Guilleminault L, Michelet M, Reber LL. *Combining Anti-IgE Monoclonal Antibodies and Oral Immunotherapy for the Treatment of Food Allergy*. **Clinical reviews in allergy & immunology**. 2022;62(1):216-231.

Guilleminault L, Mounié M, Sommet A, et al. *Healthcare resource consumption prior to asthma-related death: a nationwide descriptive study*. **Therapeutic advances in respiratory disease**. 2022;16:17534666221130217.

Hurabielle C, Taillé C, Prévot G, et al. *De-labelling severe asthma diagnosis: the challenge of DIPNECH*. **ERJ Open Res**. 2022;8(1).

Lauret S, Noel-Savina E, Prévot G, et al. *Are serum immunoglobulin concentrations a predictive biomarker of response to anti-IL5/IL5Ra therapies?* **Respir Med Res**. 2022;81:100882.

Raherison-Semjen C, Guilleminault L, Billiard I, et al. *Updated guidelines (2021) for management and follow-up of asthmatic patients of the French Society of Pneumology (SPLF) and the French Society of Pediatric Pneumology and Allergology (SP2A). Short version*. **Respir Med Res**. 2022;81:100898.

Sesé L, Mahay G, Barnig C, Guibert N, Leroy S, Guilleminault L. *[Markers of severity and predictors of response to treatment in severe asthma]*. **Revue des maladies respiratoires**. 2022;39(9):740-757.

Williams EJ, Guilleminault L, Berthon BS, et al. *Sulforaphane reduces pro-inflammatory response to palmitic acid in monocytes and adipose tissue macrophages*. **The Journal of nutritional biochemistry**. 2022;104:108978.

Worrall WPM, Kamphuis JBJ, Stackowicz J, et al. *The anti-FcεRI antibody MAR-1 depletes basophils and cross-reacts with myeloid cells through its Fc portion*. **Allergy**. 2022;77(6):1903-1906

Klimek L, Brehler R, Mösges R, et al. *Update about Oralair® as a treatment for grass pollen allergic rhinitis*. **Human vaccines & immunotherapeutics**. 2022;18(5):2066424.

Pauchet A, Chaussavoine A, Pairon JC, et al. *Idiopathic Pulmonary Fibrosis: What do we Know about the Role of Occupational and Environmental Determinants? A Systematic Literature Review and Meta-Analysis*. **Journal of toxicology and environmental health Part B, Critical reviews**. 2022;25(7):372-392.

Villeneuve T, Prévot G, Collot S, Colombat M, Didier A. *Desquamative interstitial pneumonia after tear gas exposure*. **Respir Med Res**. 2022;81:100863.

Flow cytometry: FE L'Faqihi-Olive / Valérie Duplan-Eche

David L, Taieb F, Pénary M, Bordignon PJ, Planès R, Bagayoko S, Duplan-Eche V, Meunier E, Oswald E. *Outer membrane vesicles produced by pathogenic strains of Escherichia coli block autophagic flux and exacerbate inflammasome activation*. **Autophagy**. 2022 Dec;18(12):2913-2925. doi: 10.1080/15548627.2022.2054040. Epub 2022 Apr

Imaging: S Allart

Petitfils C, Maurel S, Payros G, Hueber A, Agaiz B, Gazzo G, Marrocco R, Auvray F, Langevin G, Motta JP, Floch P, Tremblay-Franco M, Galano JM, Guy A, Durand T, Lachambre S, Durbec A, Hussein H, Decraecker L, Bertrand-Michel J, Saoudi A, Oswald E, Poisbeau P, Dietrich G, Melchior C, Boeckxstaens G, Serino M, Le Faouder P, Cenac N. *Identification of bacterial lipopeptides as key players in IBS.* **Gut**. 2022 Oct 14:gutjnl-2022-328084. doi: 10.1136/gutjnl-2022-328084. Online ahead of print.PMID: 36241390

Immuno-monitoring: R Romieu-Mourez

Abravanel F, Marion O, Del Bello A, Beunon T, Romieu-Mourez R, Couat C, Pucelle M, Staes L, Guitard J, Esposito L, Faguer S, Kamar N, Izopet J. *Humoral and Cellular Immune Responses of Solid Organ Transplant Patients on Belatacept to Three Doses of mRNA-Based Anti-SARS-CoV-2 Vaccine* **Vaccines (Basel)**. 2022 Feb 24;10(3):354. doi: 10.3390/vaccines10030354.