

# Listing publications 2020 CPTP

## **Equipe Joost van Meerwijk T cell-mediated Immune-Tolerance**

Darrigues J, et al *Robust intrathymic development of regulatory T cells in young NOD mice is rapidly restrained by recirculating cells.* **Eur J Immunol** 2020.

Adoue V, et al *Endogenous retroviruses: friend or foe of the immune system?* **Med Sci (Paris)** 2020.

Maqbool MA, et al *Alternative enhancer usage and targeted Polycomb marking hallmark promoter choice during T cell differentiation.* **Cell Report** 2020.

## **Equipe Jean-Charles Guéry Sex differences in immunity: mechanisms and pathophysiology**

Blanquart E, Laffont S, Guéry JC. Sex hormone regulation of innate lymphoid cells **Biomed. J.** 2020 (in press)

Miquel CH, Youness A, Guéry JC. Prédominance féminine des maladies auto immunes: les lymphocytes ont-ils un sexe ? **Revue du rhumatisme** 2020 (in press) **IF = 0.030**

Azar P, \* Méjia JE, \* Cénac C, \* Shaiykova A, Youness A, Laffont S, Essat A, Izopet J, Passaes C, Muller-Trutwin M, Delobel P, Meyer L, and Guéry JC. TLR7 dosage polymorphism shapes interferogenesis and HIV-1 acute infection in women. **JCI Insight** 2020 5(12) :e136047. doi.org/10.1172/jci.insight.136047. **IF = 6.014**

Pelletier L et Guéry JC. Asthme et allergie : qu'en est-il des différences entre les hommes et les femmes ? **La Revue du Praticien** 2020 ; 70(2) :195-199. **If = 0.010**

## **Equipe Nicolas Fazilleau & Sylvie Guerder Antigen Presenting Cells and CD4 T cell responses**

Santin Y., Lopez S., Ader I., Andrieu S., ; Blanchard N., Carrière A., Casteilla L., Cousin B., Davezac, N., De Souto Barreto, P., Dray C., Fazilleau N., Gonzalez-Dunia D., Gourdy P., Guyonnet S., Jabrane-Ferrat N., Kunduzova O., Lezoualc'h F., Liblau R., Martinez L.O.; Moro C.; Payoux P.; Pénicaud L.; Planat-Bénard V.; Rampon C.; Rolland Y.; Schanstra J.-P.; Sierra F.; Valet P.; Varin A.; Vergnolle N.; Vellas B.; Viña J.; Guiard B.P.; Parini A. *Towards a large-scale assessment of the relationship between biological and chronological aging: The INSPIRE Mouse Cohort.* **The Journal of Frailty and Aging** (2020).

Guyonnet, S; Rolland, Y; Takeda, C; Ousset, PJ; Ader, I; Davezac, N; Dray, C; Fazilleau, N; Gourdy, P; Liblau, R; Parini, A; Payoux, P; Penicaud, L; Rampon, C; Valet, P; Vergnolle, N; Andrieu, S; Barreto, PD; Casteilla, L; Vellas, B. **THE INSPIRE BIO-RESOURCE RESEARCH PLATFORM FOR HEALTHY AGING AND GEROSCIENCE: FOCUS ON THE HUMAN TRANSLATIONAL RESEARCH COHORT (THE INSPIRE-T COHORT) JOURNAL OF FRAILTY & AGING DOI: 10.14283/jfa.2020.38**

Barreto, PD, Guyonnet S, Ader I, Andrieu S, Casteilla L, Davezac N, Dray C, Fazilleau N, Gourdy P, Liblau R, Parini A, Payoux P, Penicaud L, Rampon C, Rolland Y, Valet P, Vergnolle N, Vellas B. *The Inspire Research Initiative: A Program for Geroscience and Healthy Aging Research going from Animal Models to Humans and the Healthcare System* **JOURNAL OF FRAILTY & AGING** DOI: 10.14283/jfa.2020.18

Mahiddine K, Hassel C, Murat C, Girard M, Guerder S. *Tissue-Specific Factors Differentially Regulate the Expression of Antigen-Processing Enzymes During Dendritic Cell Ontogeny.* **Front Immunol.** 2020 Mar 31;11:453. doi: 10.3389/fimmu.2020.00453. PMID: 32296417; PMCID: PMC7136460.

Blaize G, Daniels-Treffandier H, Aloulou M, Rouquié N, Yang C, Marcellin M, Gador M, Benamar M, Ducatez M, Song KD, Burlet-Schiltz O, Saoudi A, Love PE, Fazilleau N, Gonzalez de Peredo A, Lesourne R. *CD5 signalosome coordinates antagonist TCR signals to control the generation of Treg cells induced by foreign antigens.* **Proc Natl Acad Sci U S A.** 2020 Jun 9;117(23):12969-12979. doi: 10.1073/pnas.1917182117. Epub 2020 May 20.

Guerville F, De Souto Barreto P, Ader I, Andrieu S, Casteilla L, Dray C, Fazilleau N, Guyonnet S, Langin D, Liblau R, Parini A, Valet P, Vergnolle N, Rolland Y, Vellas B. *Revisiting the Hallmarks of Aging to Identify Markers of Biological Age.* **J Prev Alzheimers Dis.** 2020;7(1):56-64. doi: 10.14283/jpad.2019.50.

Briand F, Heymes C, Bonada L, Angles T, Charpentier J, Branchereau M, Brousseau E, Quinsat M, Fazilleau N, Burcelin R, Sulpice T. *A 3-week nonalcoholic steatohepatitis mouse model shows elafibranor benefits on hepatic inflammation and cell death.* **Clin Transl Sci.** 2020 May;13(3):529-538. doi: 10.1111/cts.12735. Epub 2020 Jan 25.

### **Equipe Roland Liblau & Abdel Saoudi Inflammatory diseases of the central nervous system: mechanisms and therapies**

Blaize G, Daniels-Treffandier H, Aloulou M, Rouquié N, Yang C, Marcellin M, Gador M, Benamar M, Ducatez M, Song K, Burlet-Schiltz O, Saoudi A, Love PE, Fazilleau N, Gonzalez de Peredo A, Lesourne R. *CD5 signalosome coordinates antagonist TCR signals to control the generation of peripherally-induced T reg cells .* **Proc Natl Acad Sci U S A.** 2020 Jun 9;117(23):12969-12979. doi: 10.1073/pnas.1917182117. Epub 2020 May 20.

Meulersse M, Asrir A, Pichler AC, Lemaitre L, Braun M, Carrié N, Joubert MV, Le Moine M, Do Souto L, Gaud G, Das I, Brauns E, Scarlata CM, Morandi E, Sundarajan A, Cuisinier M, Buisson L, Maheo S, Kassem S, Agesta A, Pérès M, Verhoeyen E, Martinez A, Mazieres J, Dupré L, Gossye T, Pancaldi V, Guillerey C, Ayyoub M, Dejean AS, Saoudi A, Goriely S, Avet-Loiseau H, Bald T, Smyth MJ, Martinet L. *Eomes-Dependent Loss of the Co-activating Receptor CD226 Restrains CD8+ T Cell Anti-tumor Functions and Limits the Efficacy of Cancer Immunotherapy.* **Immunity.** 2020 Oct 13;53(4):824-839.e10. doi: 10.1016/j.immuni.2020.09.006.

Hassan A, Wlodarczyk MF, Benamar M, Bassot E, Salvioni A, Kassem S, Berry A, Saoudi A, Blanchard N. *A Virus Hosted in Malaria-Infected Blood Protects against T Cell-Mediated Inflammatory Diseases by Impairing DC Function in a Type I IFN-Dependent Manner.* **mBio.** 2020 Apr 7;11(2):e03394-19. doi: 10.1128/mBio.03394-19.

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Basso L, Benamar M, Mas-Orea X, Deraison C, Blanpied C, Cenac N, Saoudi A, Dietrich G. *Endogenous control of inflammatory visceral pain by T cell-derived opioids in IL-10-deficient mice.* **Neurogastroenterol Motil.** 2020 Feb;32(2):e13743. doi: 10.1111/nmo.13743. Epub 2019 Oct 7. PMID: 31588671

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Yshii L, Bost C, Liblau RS. *Potential immunological bases of paraneoplastic cerebellar degeneration: therapeutic implications.* **Front Immunol.** Jun 2;11:991.

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*critically ill patients with hemophagocytic syndrome. Crit Care.* 2020 Apr 22;24(1):166. doi: 10.1186/s13054-020-02878-7.

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## **Equipe J Izopet Viral infection : persistence, host response and pathophysiology**

S. Raymond, F. Nicot, F. Abravanel, L. Minier, R. Carcenac, C. Lefèbvre, A. Harter, G. Martin-Blondel, P. Delobel, J. Izopet. *Performance evaluation of the Vela Dx Sentosa Next-Generation Sequencing System for HIV-1 DNA Genotypic Resistance*. **J Clin Virol** 2020;122:104229.

N. Capelli, M. Dubois, M. Pucelle, I. Da Silva, S. Lhomme, F. Abravanel, S. Chapuy-Regaud, J. Izopet. *Optimized HEV culture and its application to measurements of HEV infectivity*. **Viruses** 2020;12(2):139.

S. Lhomme, O. Marion, F. Abravanel, J. Izopet, N. Kamar. *Clinical manifestations, pathogenesis and treatment of hepatitis E virus infections*. **J Clin Med** 2020;9:331.

L. Capai, N. Hozé, J. Chiaroni, S. Gross, R. Djoudi, R. Charrel, J. Izopet, S. Priet, S. Cauchemez, X. De Lamballerie, A. Falchi, P. Gallian. *Seroprevalence and quantification of antibodies anti-HEV IgG among blood donors in Corsica, France, 2017*. **Eurosurveillance** 2020; 25(5):1900336.

B. Rauwel, Y. Degboe, D. Nigon, JF. Boyer, F. Abravanel, J. Izopet, B. Combe, A. Ruysen Witrand, A. Constantin, A. Cantagrel, JL. Davignon. *Reduced progression of bone erosion in Cytomegalovirus seropositive Rheumatoid Arthritis patients*. **Arthritis Res Ther** 2020;22:13.

F. Abravanel, C. Diméglio, M. Castanier, JM. Péron, N. Kamar, S. Lhomme, J. Izopet *on behalf of the HEV study group. Does HEV-3 subtype play a role in the severity of acute hepatitis E ?* **Liver Int** 2020;40:333-337.

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H. Larrue, F. Abravanel, JM. Péron. *Hepatitis E, what's the real issue?* [Liver Int](#) 2020;Suppl 1:43-47.

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O. Marion, S. Lhomme, M. Nayrac, M. Dubois, M. Pucelle, M. Requena, M. Miguères, F. Abravanel, JM. Péron, N. Carrère, B. Suc, P. Delobel, N. Kamar, J. Izopet. *Hepatitis E virus replication in human intestinal cells.* **Gut** 2020; 69:901-910.

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JM. Mansuy, J. Izopet. *We Must Not Forget the Most Disadvantaged People Facing the COVID-19 Crisis.* **Public Health** 2020;183:118.

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C. Vellas, P. Delobel, P. De Souto Barreto, J. Izopet. *Virology, Geroscience, and COVID-19: a perspective.* **J Nutr Health Aging** 2020;24:685-691.

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

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