

BIBLIOGRAPHIE

1. Bayati, A. et al., 2021, **“SARS-CoV-2 infects cells after viral entry via clathrin-mediated endocytosis”**, J Biol Chem. doi: 10.1016/j.jbc.2021.100306.
2. Cantuti-Castelvetri, L. et al., 2020, **“Neuropilin-1 facilitates SARS-CoV-2 cell entry and infectivity”**, Science. doi: 10.1126/science.abd2985.
3. Hoffmann, M. et al., 2020, **“SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor”**, Cell. doi: 10.1016/j.cell.2020.02.052.
4. Lempp, F.A. et al., 2021, **“Lectins enhance SARS-CoV-2 infection and influence neutralizing antibodies”**, Nature volume 598, pages 342–347.
5. Kalra, K. S. & Kandimalla, R., 2021, **“Engaging the spikes: heparan sulfate facilitates SARS-CoV-2 spike protein binding to ACE2 and potentiates viral infection”**, [Signal Transduction and Targeted Therapy](#) volume 6, Article number: 39
6. Diamond, M. S. and Kanneganti, T.-D., 2022, **“Innate immunity: the first line of defense against SARS-CoV-2”**, [Nature Immunology](#) volume 23, pages 165–176
7. Totura, A. L. et al., 2015, **“Toll-Like Receptor 3 Signaling via TRIF Contributes to a Protective Innate Immune Response to Severe Acute Respiratory Syndrome Coronavirus Infection”**, mBio. doi: 10.1128/mBio.00638-15.
8. Zhang, Q. et al., 2020, **“Inborn errors of type I IFN immunity in patients with life-threatening COVID-19”**, Science. doi: 10.1126/science.abd4570.
9. Borghi, M.O. et al., 2020, **“Anti-Phospholipid Antibodies in COVID-19 Are Different From Those Detectable in the Anti-Phospholipid Syndrome”**, Front Immunol. doi: 10.3389/fimmu.2020.584241.
10. Hurst, J. et al., 2009, **“TLR7 and TLR8 ligands and antiphospholipid antibodies show synergistic effects on the induction of IL-1beta and caspase-1 in monocytes and dendritic cells”**, Immunobiology. doi: 10.1016/j.imbio.2008.12.003.
11. Seneff, S. et al., 2022, **“Innate immune suppression by SARS-CoV-2 mRNA vaccinations: The role of G-quadruplexes, exosomes, and MicroRNAs”**, Food Chem Toxicol. doi: 10.1016/j.fct.2022.113008.
12. Andreakos, E. et al., 2022, **“A global effort to dissect the human genetic basis of resistance to SARS-CoV-2 infection”**, [Nature Immunology](#) volume 23, pages 159–164

13. Troya, J. et al., 2021, **“Neutralizing Autoantibodies to Type I IFNs in >10% of Patients with Severe COVID-19 Pneumonia Hospitalized in Madrid, Spain”**, [*Journal of Clinical Immunology*](#) volume 41, pages 914–922
14. Liu, G. et al., 2021, **“ISG15-dependent activation of the sensor MDA5 is antagonized by the SARS-CoV-2 papain-like protease to evade host innate immunity”**, [*Nature Microbiology*](#) volume 6, pages 467–478
15. Lei, X. et al., 2020, **“Activation and evasion of type I interferon responses by SARS-CoV-2”**, [*Nature Communications*](#) volume 11, Article number: 3810
16. Colmenero, I. et al., 2020, **“SARS-CoV-2 endothelial infection causes COVID-19 chilblains: histopathological, immunohistochemical and ultrastructural study of seven paediatric cases.”** *Br. J. Dermatol* 183, 729–737
17. Chou, J. et al., 2022, **“Immunology of SARS-CoV-2 infection in children”**, *Nature Immunology* VOL 23
18. Petter Brodin et al., 2021, **“Studying severe long COVID to understand post-infectious disorders beyond COVID-19”**, [*Nature Medicine*](#)
19. Zhang, Y. et al., 2021, **“The ORF8 Protein of SARS-CoV-2 mediates immune evasion through down-regulating MHC-1”**, *PNAS*, <https://doi.org/10.1073/pnas.2024202118>
20. Vivier, E. et al., 2011, **“Innate or Adaptive Immunity? The Example of Natural Killer Cells”**, *Science*. doi: [10.1126/science.1198687](https://doi.org/10.1126/science.1198687)
21. Jacob, J. et al., 1991, **“In situ studies of the primary immune response to (4-hydroxy-3-nitrophenyl)acetyl. I. The architecture and dynamics of responding cell populations”**, *J Exp Med*. doi: 10.1084/jem.173.5.1165.
22. Amélie Bonaud, thèse 2015, **“Maturation finale des lymphocytes B : de la commutation de classe aux conséquences pathologiques de la production d’immunoglobulines anormales”**
23. Kim, S.D. et al., 2020, **“Will SARS-CoV-2 Infection Elicit Long-Lasting Protective or Sterilising Immunity? Implications for Vaccine Strategies”**, *Front. Immunol.* <https://doi.org/10.3389/fimmu.2020.571481>
24. Hasan, A. et al., 2021, **“Cellular and Humoral Immune Responses in Covid-19 and Immunotherapeutic Approaches”**, [*Immunotargets Ther.*](#) 2021; 10: 63–85. doi: [10.2147/ITT.S280706](https://doi.org/10.2147/ITT.S280706)

25. Cerutti, A. et Rescigno, M., 2008, **“The biology of intestinal immunoglobulin A responses”**, *Immunity*. doi: 10.1016/j.immuni.2008.05.001.
26. Wahl, S.M. et al., 1990, **“Macrophage production of TGF-beta and regulation by TGF-beta”**, *Ann N Y Acad Sci*. 1990;593:188-96. doi: 10.1111/j.1749-6632.1990.tb16111.x.
27. Davis, S. K. et al., 2020, **“Serum IgA Fc effector functions in infectious disease and cancer”**, *Immunology & Cell Biology*2020;98: 276–286
28. Paul Moss, 2022, **“The T cell immune response against SARS-CoV-2”**, *Nature Immunology* volume 23, pages 186–193
29. Tan, L. et al., 2020, **“Lymphopenia predicts disease severity of COVID-19: a descriptive and predictive study”**, *Signal Transduction and Targeted Therapy* volume 5, Article number: 61
30. Lucas, C. et al., 2020, **“Longitudinal analyses reveal immunological misfiring in severe COVID-19”**, *Nature*. 2020 Aug;584(7821):463-469. doi: 10.1038/s41586-020-2588-y.
31. Helal, M.A. et al., 2020, **“Molecular basis of the potential interaction of SARS-CoV-2 spike protein to CD147 in COVID-19 associated-lymphopenia”**, <https://doi.org/10.1080/07391102.2020.1822208>
32. Emadeldin H.E. Konozy, 2021, **“SARS-CoV-2 and Plasmodium falciparum are probably adopting Analogous strategy to invade erythrocytes”**, doi: [10.1016/j.jiph.2021.04.014](https://doi.org/10.1016/j.jiph.2021.04.014)
33. Ulrich, H. & Pillat, M.M., 2020, **“CD147 as a Target for COVID-19 Treatment: Suggested Effects of Azithromycin and Stem Cell Engagement”**, *Stem Cell Rev Rep*. doi: 10.1007/s12015-020-09976-7.
34. Hernán F. Peñaloza et al., 2021, **“Neutrophils and lymphopenia, an unknown axis in severe COVID-19 disease”**, <https://doi.org/10.1371/journal.ppat.1009850>
35. Zhang, Z. et al., 2021, **“SARS-CoV-2 spike protein dictates syncytium-mediated lymphocyte elimination”**, *Cell Death Differ*. doi: 10.1038/s41418-021-00782-3.
36. André, S. et al., 2022, **“T cell apoptosis characterizes severe Covid-19 disease”**, *Cell Death & Differentiation*, <https://www.nature.com/articles/s41418-022-00936-x>
37. Martonik, D. et al., 2021, **“The Role of Th17 Response in COVID-19”**, *Cells*. 2021 Jun 19;10(6):1550. doi: 10.3390/cells10061550.

38. Eren Cagan et al., 2022, **“The Age-Dependent Role of Th22, Tc22, and Tc17 Cells in the Severity of Pneumonia in COVID-19 Immunopathogenesis”**, *VIRAL IMMUNOLOGY* Volume 00, Number 00, 2022 Mary Ann Liebert, Inc.Pp. 1–10 DOI: 10.1089/vim.2021.0132
39. McGeachy, M. J. et al., 2019, **“The IL-17 Family of Cytokines in Health and Disease”**, *Immunity*. 2019 Apr 16;50(4):892-906. doi: 10.1016/j.immuni.2019.03.021
40. Sakaguchi, R. et al., 2015, **“Innate-like function of memory T h 17 cells for enhancing endotoxin-induced acute lung inflammation through IL-22”**, *International Immunology*, Volume 28, Issue 5, May 2016, Pages 233–243, <https://doi.org/10.1093/intimm/dxv070>
41. Zheng, J. et al., 2022, **“Characterization of SARS-CoV-2-specific humoral immunity and its potential applications and therapeutic prospects”**, *Cellular & Molecular Immunology* volume 19, pages 150–157 (2022)
42. Kaplan, M.H. et al., 2015, **“The Development and in vivo function of TH9 cells”**, *Nat Rev Immunol*. 2015 May; 15(5): 295–307. doi: 10.1038/nri3824
43. Yu, X. et al., 2017, **“The Cytokine TGF- β Promotes the Development and Homeostasis of Alveolar Macrophages”**, *Immunity*. 2017 Nov 21;47(5):903-912.e4. doi: 10.1016/j.immuni.2017.10.007. Epub 2017 Nov 7
44. Schneider, C. et al., 2014, **“Induction of the nuclear receptor PPAR- γ by the cytokine GM-CSF is critical for the differentiation of fetal monocytes into alveolar macrophages”**, *Nature Immunology* volume 15, pages 1026–1037
45. Nobs & Kopf, 2018, **“PPAR- γ in innate and adaptive lung immunity”**, *J Leukoc Biol*. 2018 Oct;104(4):737-741. doi: 10.1002/JLB.3MR0118-034R.
46. Heming, M. et al., 2018, **“Peroxisome Proliferator-Activated Receptor- γ Modulates the Response of Macrophages to Lipopolysaccharide and Glucocorticoids”**, *Front Immunol*. 2018 May 8;9:893. doi: 10.3389/fimmu.2018.00893.
47. Micossé C. et al., 2019, **“Human “T_H9” cells are a subpopulation of PPAR- γ + T_H2 cells”**, *Sci Immunol*. 2019 Jan 18;4(31):eaat5943. doi: 10.1126/sciimmunol.aat5943.
48. Moretti, S. et al., 2017, **“A mast cell-ILC2-Th9 pathway promotes lung inflammation in cystic fibrosis”**, *Nat Commun*. 2017 Jan 16;8:14017. doi: 10.1038/ncomms14017.
49. Willard, M. A. M. et al., 2012, **“Interleukin-1 α controls allergic sensitization to inhaled house dust mite via the epithelial release of GM-CSF and IL-33”**, *J Exp Med* (2012) 209 (8): 1505–1517. <https://doi.org/10.1084/jem.20112691>

50. Kim, C.W. et al., 2019, **“Exogenous Interleukin-33 Contributes to Protective Immunity via Cytotoxic T-Cell Priming against Mucosal Influenza Viral Infection”**, *Viruses*. 2019 Sep 10;11(9):840. doi: 10.3390/v11090840.
51. Morrison, C. B. et al., 2022, **“SARS-CoV-2 infection of airway cells causes intense viral and cell shedding, two spreading mechanisms affected by IL-13”**, <https://doi.org/10.1073/pnas.2119680119>
52. Chung-Jen Wang et al., 2022, **“Asthma and COVID-19 Associations: Focus on IgE-Related Immune Pathology”**, *Life* 2022, 12(2), 153, <https://doi.org/10.3390/life12020153>
53. Tan, C. et al., 2022, **“Hypersensitivity may be involved in severe COVID-19”**, *Clin Exp Allergy*. 2022 Feb;52(2):324-333. doi: 10.1111/cea.14023. Epub 2021 Oct 9.
54. Haimanot Wasse, et al., 2012, **“Impact of Mast Cell Chymase on Renal Disease Progression”**, *Curr Hypertens Rev*. 2012 Feb 1; 8(1): 15–23, doi: 10.2174/157340212800505007
55. El-Arif, G. et al., 2021, **“The Renin-Angiotensin System: A Key Role in SARS-CoV-2-Induced COVID-19”**, *Molecules* 2021, 26(22), 6945; <https://doi.org/10.3390/molecules26226945>
56. Valent, P., 2013, **“Mast cell activation syndromes: definition and classification”**, *EAACI*, <https://doi.org/10.1111/all.12126>
57. Frieri, M., 2018, **“Mast Cell Activation Syndrome”**, *Clinical Reviews in Allergy & Immunology* volume 54, pages 353–365
58. Mittal, A. et al., 2019, **“Mast Cell Neural Interactions in Health and Disease”**, *Front. Cell. Neurosci.*, <https://doi.org/10.3389/fncel.2019.00110>
59. Hatziantoniou, S. et al., 2021, **“Anaphylactic reactions to mRNA COVID-19 vaccines: A call for further study”**, *Vaccine*. doi: 10.1016/j.vaccine.2021.03.073.
60. Wilhelm, C. et al., 2012, **“Interleukin 9 fate reporter reveals induction of innate IL-9 response in lung inflammation”**, *Nat immunol*, doi: 10.1038/ni.2133
61. Klemm, T. et al., 2020, **“Mechanism and inhibition of the papain-like protease, PLpro, of SARS-CoV-2”**, *The EMBO Journal*, <https://doi.org/10.15252/embj.2020106275>

62. Acosta-Ampudia, Y. et al., 2022, **“Persistent Autoimmune Activation and Proinflammatory State in Post-COVID Syndrome”** J Infect Dis. 2022 Jan 25;jiac017. doi: 10.1093/infdis/jiac017.
63. Chen, J. et al., 2019, **“T Helper 9 Cells: A New Player in Immune-Related Diseases”**, DNA Cell Biol. 2019 Oct 1; 38(10): 1040–1047. doi: 10.1089/dna.2019.4729
64. Li, S. et al., 2014, **“Circulating Th17, Th22, and Th1 Cells Are Elevated in the Guillain-Barré Syndrome and Downregulated by IVIg Treatments”**, Mediators Inflamm. 2014; 2014: 740947, doi: 10.1155/2014/740947
65. He, Y. et al., 2021, **“Immunopathobiology and therapeutic targets related to cytokines in liver diseases”**, Cellular & Molecular Immunology volume 18, pages 18–37, <https://doi.org/10.1038/s41423-020-00580-w>
66. Salazar, Y. et al., 2020, **“Microenvironmental Th9 and Th17 lymphocytes induce metastatic spreading in lung cancer”**, The Journal of Clinical Investigation, 10.1172/JCI124037
67. Karpisheh, V. et al., 2022, **“The role of Th17 cells in the pathogenesis and treatment of breast cancer”**, Cancer Cell International BMC, <https://doi.org/10.1186/s12935-022-02528-8>
68. Hoffmann, M. et Pöhlmann, S., 2021, **“Novel SARS-CoV-2 receptors: ASGR1 and KREMEN1”**, Cell Res. 32, 1–2 (2022). <https://doi.org/10.1038/s41422-021-00603-9>
69. Gu, Y. et al., 2022, **“Receptome profiling identifies KREMEN1 and ASGR1 as alternative functional receptors of SARS-CoV-2”**, Cell Res. 32(1):24-37. doi: 10.1038/s41422-021-00595-6.
70. Barin, B. et al., 2022, **“Comparison of SARS-CoV-2 anti-spike receptor binding domain IgG antibody responses after CoronaVac, BNT162b2, ChAdOx1 COVID-19 vaccines, and a single booster dose: a prospective, longitudinal population-based study”**, THE LANCET Microbe, DOI: [https://doi.org/10.1016/S2666-5247\(21\)00305-0](https://doi.org/10.1016/S2666-5247(21)00305-0)
71. Shen, X.-R. et al., 2022, **“ACE2-independent infection of T lymphocytes by SARS-CoV-2”**, Signal Transduction and Targeted Therapy, volume 7, Article number: 83, <https://doi.org/10.1038/s41392-022-00919-x>
72. Tardif, M.R. & Tremblay, M.J., 2005, **“LFA-1 is a key determinant for preferential infection of memory CD4+ T cells by human immunodeficiency virus type 1”**, J Virol 79(21):13714-24. doi: 10.1128/JVI.79.21.13714-13724.2005.