

## **2022 SIgN Publications (with impact factor >4)**

*Last updated: 23 December 2022*

### **Impact factor of immunology journals (JCR 2021)**

Adachi A, Honda T, Egawa G, Kanameishi S, Takimoto R, Miyake T, Hossain MR, Komine M, Ohtsuki M, Gunzer M, Ikuta K, Kabashima K. Estradiol suppresses psoriatic inflammation in mice by regulating neutrophil and macrophage functions. *J Allergy Clin Immunol.* 2022 May 4:S0091-6749(22)00485-7.

Amorim A, De Feo D, Friebel E, Ingelfinger F, Anderfuhren CD, Krishnarajah S, Andreadou M, Welsh CA, Liu Z, Ginhoux F, Greter M, Becher B. IFNy and GM-CSF control complementary differentiation programs in the monocyte-to-phagocyte transition during neuroinflammation. *Nat Immunol.* 2022 Feb;23(2):217-228.

Andiappan AK, Puan KJ, Sio YY, Ally F, Lee B, Matta SA, Yusof N, Larbi A, Wang Y, Chew FT, Rotzschke O. Functional CTLA-4 variants associate to both allergic asthma and rhinitis potentially by modulating naïve regulatory T cells. *Allergy.* 2022 May 24. [Epub ahead of print]

Baharom F, Ramirez-Valdez RA, Khalilnezhad A, Khalilnezhad S, Dillon M, Hermans D, Fussell S, Tobin KKS, Dutertre CA, Lynn GM, Müller S, Ginhoux F, Ishizuka AS, Seder RA. Systemic vaccination induces CD8+ T cells and remodels the tumor microenvironment. *Cell.* 2022 Nov 10;185(23):4317-4332.e15.

Balachander A, Lee B, Biswas SK, Lye DC, Lin RT, Leo YS, Chui P, Ng LF, Renia L. Organ-specific immune response in lethal SARS-CoV-2 infection by deep spatial phenotyping. *Clin Transl Immunology.* 2022 May 15;11(5):e1384.

Bauzá-Martinez J, Armony G, Pronker MF, Wu W. Characterization of protein complexes in extracellular vesicles by intact extracellular vesicle crosslinking mass spectrometry (iEVXL). *J Extracell Vesicles.* 2022 Jul;11(8):e12245.

Bertoletti A, Le Bert N, Tan AT. SARS-CoV-2-specific T cells in the changing landscape of the COVID-19 pandemic. *Immunity.* 2022 Aug 18:S1074-7613(22)00401-0.

Beumer J, Bauzá-Martinez J, Veth TS, Geurts V, Boot C, Gilliam-Vigh H, Poulsen SS, Knop FK, Wu W, Clevers H. Mapping prohormone processing by proteases in human enteroendocrine cells using genetically engineered organoid models. *Proc Natl Acad Sci U S A.* 2022 Nov 16;119(46):e2212057119.

Chakarov S, Blériot C, Ginhoux F. Role of adipose tissue macrophages in obesity-related disorders. *J Exp Med.* 2022 Jul 4;219(7):e20211948.

Chaudhary D, Singh A, Marzuki M, Ghosh A, Kidwai S, Gosain TP, Chawla K, Gupta SK, Agarwal N, Saha S, Kumar Y, Thakur KG, Singhal A, Singh R. Identification of small molecules targeting homoserine acetyl transferase from Mycobacterium tuberculosis and Staphylococcus aureus. *Sci Rep.* 2022 Aug 13;12(1):13801.

Chen W, Li Y, Ruan GX, Huang H, Zhang R, Wang J, Ouyang Y, Li Y, Xu S, Ou X. Adenosine deaminase acting on RNA-1 is essential for early B lymphopoiesis. *Cell Rep.* 2022 Nov 22;41(8):111687.

Chooi WH, Ng CY, Ow V, Harley J, Ng W, Hor JH, Low KE, Malleret B, Xue K, Ng SY. Defined Alginate Hydrogels Support Spinal Cord Organoid Derivation, Maturation, and Modeling of Spinal Cord Diseases. *Adv Healthc Mater.* 2022 Dec 11:e2202342.

Chua AWC, Guo D, Tan JC, Lim FTW, Ong CT, Masilamani J, Lim TKH, Hwang WYK, Lim IJ, Chen J, Phan TT, Fan X. Intraperitoneally Delivered Umbilical Cord Lining Mesenchymal Stromal Cells Improve Survival and Kidney Function in Murine Lupus via Myeloid Pathway Targeting. *Int J Mol Sci.* 2022 Dec 26;24(1):365.

Chuah S, Lee J, Song Y, Kim HD, Wasser M, Kaya NA, Bang K, Lee YJ, Jeon SH, Suthen S, A'Azman S, Gien G, Lim CJ, Chua C, Hazirah SN, Lee HK, Lim JQ, Lim TKH, Yeong J, Chen J, Shin EC, Albani S, Zhai W, Yoo C, Liu H, Choo SP, Tai D, Chew V. Uncoupling immune trajectories of response and adverse events from anti-PD-1 immunotherapy in hepatocellular carcinoma. *J Hepatol.* 2022 Apr 14:S0168-8278(22)00233-1.

Clausen BE, Amon L, Backer RA, Berod L, Bopp T, Brand A, Burgdorf S, Chen L, Da M, Distler U, Dress RJ, Dudziak D, Dutertre CA, Eich C, Gabele A, Geiger M, Ginhoux F, Giusiano L, Godoy GJ, Hamouda AEI, Hatscher L, Heger L, Heidkamp GF, Hernandez LC, Jacobi L, Kaszubowski T, Kong WT, Lehmann CHK, López-López T, Mahnke K, Nitsche D, Renkowitz J, Reza RA, Sáez PJ, Schlautmann L, Schmitt MT, Seichter A, Sielaff M, Sparwasser T, Stoitzner P, Tchitashvili G, Tenzer S, Tochoedo NR, Vurnek D, Zink F, Hieronymus T. Guidelines for mouse and human DC functional assays. *Eur J Immunol.* 2022 Dec 23. [Epub ahead of print]

Crainiciuc G, Palomino-Segura M, Molina-Moreno M, Sicilia J, Aragones DG, Li JLY, Madurga R, Adrover JM, Aroca-Crevillén A, Martin-Salamanca S, Del Valle AS, Castillo SD, Welch HCE, Soehnlein O, Graupera M, Sánchez-Cabo F, Zarbock A, Smithgall TE, Di Pilato M, Mempel TR, Tharaux PL, González SF, Ayuso-Sacido A, Ng LG, Calvo GF, González-Díaz I, Díaz-de-María F, Hidalgo A. Behavioural immune landscapes of inflammation. *Nature.* 2022 Jan 5. [Epub ahead of print]

Cui J, Sachaphibulkij K, Teo WS, Lim HM, Zou L, Ong CN, Alberts R, Chen J, Lim LHK. Annexin-A1 deficiency attenuates stress-induced tumor growth via fatty acid metabolism in mice: an Integrated multiple omics analysis on the stress- microbiome-metabolite-epigenetic-oncology (SMMEO) axis. *Theranostics.* 2022 May 9;12(8):3794-3817.

Dainichi T, Nakano Y, Doi H, Nakamizo S, Nakajima S, Matsumoto R, Farkas T, Wong PM, Narang V, Moreno Traspas R, Kawakami E, Guttman-Yassky E, Dreesen O, Litman T, Reversade B, Kabashima K. C10orf99/GPR15L Regulates Proinflammatory Response of Keratinocytes and Barrier Formation of the Skin. *Front Immunol.* 2022 Feb 22;13:825032.

De Marco L, D'Orso S, Pirronello M, Verdiani A, Termine A, Fabrizio C, Capone A, Sabatini A, Guerrera G, Placido R, Sambucci M, Angelini DF, Giannessi F, Picozza M, Caltagirone C, Salvia A, Volpe E, Balice MP, Rossini A, Rötzschke O, Giardina E, Battistini L, Borsellino G. Assessment of T-cell Reactivity to the SARS-CoV-2 Omicron Variant by Immunized Individuals. *JAMA Netw Open.* 2022 Apr 1;5(4):e2210871.

Del Rosario RCH, Poschmann J, Lim C, Cheng CY, Kumar P, Riou C, Ong ST, Gerges S, Hajan HS, Kumar D, Marzuki M, Lu X, Lee A, Wijaya GC, Rayan NA, Zhuang Z, Du Bruyn E, Chee CBE, Lee B, Lum J, Zolezzi F, Poidinger M, Rotzschke O, Khor CC, Wilkinson RJ, Wang YT, Chandy GK, De Libero G, Singhal A, Prabhakar S. Histone acetylome-wide associations in immune cells from individuals with active Mycobacterium tuberculosis infection. *Nat Microbiol.* 2022 Feb;7(2):312-326.

Deng L, Wojciech L, Png CW, Koh EY, Aung TT, Kioh DYQ, Chan ECY, Malleret B, Zhang Y, Peng G, Gascoigne NRJ, Tan KSW. Experimental colonization with *Blastocystis* ST4 is associated with protective immune responses and modulation of gut microbiome in a DSS-induced colitis mouse model. *Cell Mol Life Sci.* 2022 Apr 18;79(5):245.

Dolfi B, Gallerand A, Firulyova MM, Xu Y, Merlin J, Dumont A, Castiglione A, Vaillant N, Quemener S, Gerke H, Stunault MI, Schrank PR, Kim SH, Zhu A, Ding J, Gilleron J, Magnone V, Barbry P, Dombrowicz D, Duranton C, Wakkach A, Blin-Wakkach C, Becher B, Pagnotta S, Argüello RJ, Rantakari P, Chakarov S, Ginhoux F, Zaitsev K, Kim KW, Yvan-Charvet L, Guinamard RR, Williams JW, Ivanov S. Unravelling the sex-specific diversity and functions of adrenal gland macrophages. *Cell Rep.* 2022 Jun 14;39(11):110949.

Drucker AM, Lam M, Flohr C, Thyssen JP, Kabashima K, Bissonnette R, Dlova NC, Aoki V, Chen M, Yu J, Zhu JW, Micieli R, Nosbaum A. Systemic Therapy for Atopic Dermatitis in Older Adults and Adults With Comorbidities: A Scoping Review and International Eczema Council Survey. *Dermatitis.* 2022 Mar 12. [Epub ahead of print]

Du L, Liu C, Wei R, Chen J. Uncertainty-aware dynamic integration for multi-omics classification of tumors. *J Cancer Res Clin Oncol.* 2022 Aug 4. [Epub ahead of print]

Fan X, Ng CT, Guo D, Lim F, Tan JC, Law A, Goh LH, Poon ZY, Cheung A, Kong SL, Tan M, Li S, Loh A, James A, Lim T, Chen J, Thumboo J, Hwang W, Low A. CXCL5 administration dampens inflammation and improves survival in murine lupus via myeloid and neutrophil pathways. *Arthritis Rheumatol.* 2022 Oct 14. [Epub ahead of print]

Feige L, Kozaki T, Dias de Melo G, Guillemot V, Larrous F, Ginhoux F, Bourhy H. Susceptibilities of CNS Cells towards Rabies Virus Infection Is Linked to Cellular Innate Immune Responses. *Viruses.* 2022 Dec 29;15(1):88.

Fincham REA, Bashiri H, Lau MC, Yeong J. Editorial: Multiplex Immunohistochemistry / Immunofluorescence Technique: The Potential and Promise for Clinical Application. *Front Mol Biosci.* 2022 Feb 25;9:831383.

Fulop T, Larbi A, Pawelec G, Cohen AA, Provost G, Khalil A, Lacombe G, Rodrigues S, Desroches M, Hirokawa K, Franceschi C, Witkowski JM. Immunosenescence and Altered Vaccine Efficiency in Older Subjects: A Myth Difficult to Change. *Vaccines (Basel).* 2022 Apr 13;10(4):607.

Ginhoux F, Guilliams M, Merad M. Expanding dendritic cell nomenclature in the single-cell era. *Nat Rev Immunol.* 2022 Jan 13. [Epub ahead of print]

Ginhoux F, Martin P. Insights into the role of immune cells in development and regeneration. *Development.* 2022 Apr 15;149(8):dev200829.

Ginhoux F, Yalin A, Dutertre CA, Amit I. Single-cell immunology: Past, present, and future. *Immunity.* 2022 Mar 8;55(3):393-404.

Goggi JL, Hartimath SV, Khanapur S, Ramasamy B, Chin ZF, Cheng P, Chin HX, Hwang YY, Robins EG. Imaging Memory T-Cells Stratifies Response to Adjuvant Metformin Combined with αPD-1 Therapy. *Int J Mol Sci.* 2022 Oct 25;23(21):12892.

Goggi JL, Khanapur S, Hartimath SV, Ramasamy B, Cheng P, Chin HX, Tang JR, Hwang YY, Robins EG. Imaging Effector Memory T-Cells Predicts Response to PD1-Chemotherapy Combinations in Colon Cancer. *Biomedicines*. 2022 Sep 20;10(10):2343.

Goggi JL, Khanapur S, Ramasamy B, Hartimath SV, Rong TJ, Cheng P, Tan YX, Yeo XY, Jung S, Goay SSM, Ong ST, Hwang YY, Chandy KG, Robins EG. Imaging Kv1.3 Expressing Memory T Cells as a Marker of Immunotherapy Response. *Cancers (Basel)*. 2022 Feb 26;14(5):1217.

Goh D, Lim JCT, Fernández SB, Joseph CR, Edwards SG, Neo ZW, Lee JN, Caballero SG, Lau MC, Yeong JPS. Case report: Persistence of residual antigen and RNA of the SARS-CoV-2 virus in tissues of two patients with long COVID. *Front Immunol*. 2022 Sep 5;13:939989.

Goh YS, Fong SW, Rouers A, Chang ZW, Tay MZ, Chavatte JM, Zhuo NZ, Hor PX, Loh CY, Huang Y, Wong JXE, Tan YJ, Lim DRX, Wang B, Ngoh EZX, Salleh SNM, Lee RTC, Pada S, Sun LJ, Ong DLS, Somani J, Lee ES; NCID Study Group; COVID-19 Study Group, Maurer-Stroh S, Wang CI, Leo YS, Lin RT, Ren EC, Lye DC, Young BE, Lim PL, Ng LF, Renia L. Heterologous booster vaccination with CoronaVac following prime vaccination with mRNA vaccine. *Clin Transl Immunology*. 2022 Aug 23;11(8):e1403.

Goh YS, Rouers A, Fong SW, Zhuo NZ, Hor PX, Loh CY, Huang Y, Neo VK, Kam IKJ, Wang B, Ngoh EZX, Salleh SNM, Lee RTC, Pada S, Sun LJ, Ong DLS, Somani J, Lee ES; NCID Study Group; COVID-19 Study Group, Maurer-Stroh S, Wang CI, Leo YS, Ren EC, Lye DC, Young BE, Ng LFP, Renia L. Waning of specific antibodies against Delta and Omicron variants five months after a third dose of BNT162b2 SARS-CoV-2 vaccine in elderly individuals. *Front Immunol*. 2022 Nov 14;13:1031852.

Goubet AG, Lordello L, Alves Costa Silva C, Peguillet I, Gazzano M, Mbognign-Fonkou MD, Thelemaque C, Lebacle C, Thibault C, Audenet F, Pignot G, Gravis G, Helissey C, Campedel L, Roupert M, Xylinas E, Ouzaïd I, Dubuisson A, Mazzenga M, Flament C, Ly P, Marty V, Signolle N, Sauvat A, Sbarrato T, Filahi M, Davin C, Haddad G, Bou Khalil J, Bleriot C, Danlos FX, Dunsmore G, Mulder K, Silvin A, Raoult T, Archambaud B, Belhechmi S, Gomperts Boneca I, Cayet N, Moya-Nilges M, Mallet A, Daillere R, Rouleau E, Radulescu C, Allory Y, Fieschi J, Rouanne M, Ginhoux F, Le Teuff G, Derosa L, Marabelle A, VAN Dorp J, VAN Dijk N, van der Heijden MS, Besse B, Andre F, Merad M, Kroemer G, Scoazec JY, Zitvogel L, Loriot Y. Escherichia coli-specific CXCL13-producing TFH are associated with clinical efficacy of neoadjuvant PD-1 blockade against muscle-invasive bladder cancer. *Cancer Discov*. 2022 Aug 5:CD-22-0201.

Hanakawa S, Chow Z, Kabashima K. Depletion of Treg by the Diphtheria Toxin System. *Methods Mol Biol*. 2023;2559:31-39.

Hartimath SV, Ramasamy B, Xuan TY, Rong TJ, Khanapur S, Cheng P, Hwang YY, Robins EG, Goggi JL. Granzyme B PET Imaging in Response to In Situ Vaccine Therapy Combined with αPD1 in a Murine Colon Cancer Model. *Pharmaceutics*. 2022 Jan 8;14(1):150.

He GW, Lin L, DeMartino J, Zheng X, Staliarova N, Dayton T, Begthel H, van de Wetering WJ, Bodewes E, van Zon J, Tans S, Lopez-Iglesias C, Peters PJ, Wu W, Kotlarz D, Klein C, Margaritis T, Holstege F, Clevers H. Optimized human intestinal organoid model reveals interleukin-22-dependency of paneth cell formation. *Cell Stem Cell*. 2022 Sep 1;29(9):1333-1345.e6.

Heming M, Haessner S, Wolbert J, Lu IN, Li X, Brokinkel B, Müther M, Holling M, Stummer W, Thomas C, Schulte-Mecklenbeck A, de Faria F, Stoeckius M, Hailfinger S, Lenz G, Kerl K, Wiendl H, Meyer Zu Hörste G, Grauer OM. Intratumor heterogeneity and T cell exhaustion in primary CNS lymphoma. *Genome Med*. 2022 Sep 24;14(1):109.

Ho WW, Pittet MJ, Fukumura D, Jain RK. The local microenvironment matters in preclinical basic and translational studies of cancer immunology and immunotherapy. *Cancer Cell*. 2022 Jun 13:S1535-6108(22)00229-X.

Huang H, Zhang G, Ruan GX, Li Y, Chen W, Zou J, Zhang R, Wang J, Ji SJ, Xu S, Ou X. Mettl14-Mediated m6A Modification Is Essential for Germinal Center B Cell Response. *J Immunol*. 2022 Apr 15;208(8):1924-1936.

Huo J, Huang Y, Zheng Z, Tay XN, Mahfut FB, Zhang W, Lam KP, Yang Y, Xu S. Development of a T cell-redirecting bispecific antibody targeting B-cell maturation antigen for the suppression of multiple myeloma cell growth. *Antib Ther*. 2022 Jun 9;5(2):138-149.

Iannacone M, Blériot C, Andreata F, Ficht X, Laura C, Garcia-Manteiga JM, Uderhardt S, Ginhoux F. Response to contamination of isolated mouse Kupffer cells with liver sinusoidal endothelial cells. *Immunity*. 2022 Jul 12;55(7):1141-1142.

Iavarone M, Tosetti G, Facchetti F, Topa M, Er JM, Hang SK, Licari D, Lombardi A, D'Ambrosio R, Degasperi E, Loglio A, Oggioni C, Perbellini R, Caccia R, Bandera A, Gori A, Ceriotti F, Scudeller L, Bertoletti A, Lampertico P. Spike-specific humoral and cellular immune responses after COVID-19 mRNA vaccination in patients with cirrhosis: A prospective single center study. *Dig Liver Dis*. 2022 Oct 17:S1590-8658(22)00701-0.

Ingelfinger F, Gerdes LA, Kavaka V, Krishnarajah S, Friebel E, Galli E, Zwicky P, Furrer R, Peukert C, Dutertre CA, Eglseer KM, Ginhoux F, Flierl-Hecht A, Kümpfel T, De Feo D, Schreiner B, Mundt S, Kerschensteiner M, Hohlfeld R, Beltrán E, Becher B. Twin study reveals non-heritable immune perturbations in multiple sclerosis. *Nature*. 2022 Mar;603(7899):152-158.

Ito R, Katano I, Kwok IWH, Ng LG, Ida-Tanaka M, Ohno Y, Mu Y, Morita H, Nishinaka E, Nishime C, Mochizuki M, Kawai K, Tay HC, Yunqian Z, Yiping F, Hua LH, Celhar T, Yen Chan JK, Takahashi T, Goto M, Ogura T, Takahashi R, Ito M. Efficient differentiation of human neutrophils with recapitulation of emergency granulopoiesis in human G-CSF knockin humanized mice. *Cell Rep*. 2022 Dec 20;41(12):111841.

Kalliara E, Kardynska M, Bagnall J, Spiller DG, Müller W, Ruckerl D, Śmieja J, Biswas SK, Paszek P. Post-transcriptional regulatory feedback encodes JAK-STAT signal memory of interferon stimulation. *Front Immunol*. 2022 Sep 27;13:947213.

Keith YH, Honda T, Ono S, Lee B, Shibuya R, Hanakawa S, Ishida Y, Nakamizo S, Kabashima K. Infiltration and local differentiation of bone marrow-derived integrin $\beta$ 7-positive mast cell progenitors in atopic dermatitis-like skin. *J Allergy Clin Immunol*. 2022 Sep 17:S0091-6749(22)01192-7.

Khoo NKH, Lim JME, Gill US, de Alwis R, Tan N, Toh JZN, Abbott JE, Usai C, Ooi EE, Low JGH, Le Bert N, Kennedy PTF, Bertoletti A. Differential immunogenicity of homologous versus heterologous boost in Ad26.COV2.S vaccine recipients. *Med (N Y)*. 2022 Feb 11;3(2):104-118.e4.

Kim SSY, Sim DCN, Carissimo G, Lim HH, Lam KP. Bruton's Tyrosine Kinase phosphorylates scaffolding and RNA-binding protein G3BP1 to induce stress granule aggregation during host sensing of foreign ribonucleic acids. *J Biol Chem*. 2022 Jul 4:102231.

Ko HL, Zhuo N, Chang ZW, Santosa A, Kalimuddin S, Lim XR, Tan SY, Lye DC, Toh D, Young BE, Renia L, Lee HY, Ren EC. In vitro vaccine challenge of PBMCs from BNT162b2 anaphylaxis patients reveals HSP90 $\alpha$ -NOD2-NLRP3 nexus. *Allergy*. 2022 Sep 3. [Epub ahead of print]

Komatsu-Fujii T, de Jesus CS, Nomura T, Kabashima K. Non-invasive visualization of epidermal hypertrophy of pachydermoperiostosis. *J Eur Acad Dermatol Venereol*. 2022 Oct 13. [Epub ahead of print]

Kumar P, Lim A, Hazirah SN, Chua CJH, Ngoh A, Poh SL, Yeo TH, Lim J, Ling S, Sutamam NB, Petretto E, Low DCY, Zeng L, Tan EK, Arkachaisri T, Yeo JG, Ginhoux F, Chan D, Albani S. Single-cell transcriptomics and surface epitope detection in human brain epileptic lesions identifies pro-inflammatory signaling. *Nat Neurosci*. 2022 Jul;25(7):956-966.

Kuramochi T, Gan SW, Ho AWS, Wang B, Kageji N, Nambu T, Iida S, Okuda-Miura M, Chia WS, Yeo CY, Chen D, Lee WH, Ngoh EZX, Mohd Salleh SN, Wang CI, Igawa T, Shimada H. Comprehensive engineering of a therapeutic neutralizing antibody targeting SARS-CoV-2 spike protein to neutralize escape variants. *MAbs*. 2022 Jan-Dec;14(1):2040350.

Kvedaraite E, Ginhoux F. Human dendritic cells in cancer. *Sci Immunol*. 2022 Apr;7(70):eabm9409.

Kvedaraite E, Milne P, Khalilnezhad A, Chevrier M, Sethi R, Lee HK, Hagey DW, von Bahr Greenwood T, Mouratidou N, Jädersten M, Lee NYS, Minnerup L, Tan Y, Dutertre CA, Benac N, Hwang YY, Lum J, Loh AHP, Jansson J, Teng KWW, Khalilnezhad S, Xu W, Resteu A, Tey HL, Ng LG, Larbi A, Howland SW, Arnell H, Andaloussi SEL, Braier J, Rassidakis G, Galluzzo L, Dzionek A, Henter JI, Chen J, Collin M, Ginhoux F. Notch-dependent cooperativity between myeloid lineages promotes Langerhans cell histiocytosis pathology. *Sci Immunol*. 2022 Dec 23;7(78):eadd3330.

Lam TYW, Nguyen N, Peh HY, Shanmugasundaram M, Chandna R, Tee JH, Ong CB, Hossain MZ, Venugopal S, Zhang T, Xu S, Qiu T, Kong WT, Chakarov S, Srivastava S, Liao W, Kim JS, Teh M, Ginhoux F, Fred Wong WS, Ge R. ISM1 protects lung homeostasis via cell-surface GRP78-mediated alveolar macrophage apoptosis. *Proc Natl Acad Sci U S A*. 2022 Jan 25;119(4):e2019161119.

Lee B, Cyrill SL, Lee W, Melchiotti R, Andiappan AK, Poidinger M, Rötzschke O. Analysis of archaic human haplotypes suggests that 5hmC acts as an epigenetic guide for NCO recombination. *BMC Biol*. 2022 Aug 4;20(1):173.

Lee CY, Carissimo G, Teo TH, Tong SJM, Chang ZW, Rajarethnam R, Chua TK, Chen Z, Chee RS, Tay A, Howland SW, Ang KS, Chen J, Renia L, Ng LFP. CD8+ T Cells Trigger Auricular Dermatitis and Blepharitis in Mice after Zika Virus Infection in the Absence of CD4+ T Cells. *J Invest Dermatol*. 2022 Dec 23:S0022-202X(22)02893-7.

Lee CZW, Ginhoux F. Biology of resident tissue macrophages. *Development*. 2022 Apr 15;149(8):dev200270.

Leong YW, Russell B, Malleret B, Rénia L. Erythrocyte tropism of malarial parasites: The reticulocyte appeal. *Front Microbiol*. 2022 Oct 26;13:1022828.

Li Y, Ruan GX, Chen W, Huang H, Zhang R, Wang J, Li Y, Xu S, Ou X. RNA-Editing Enzyme ADAR1 p150 Isoform Is Critical for Germinal Center B Cell Response. *J Immunol*. 2022 Aug 17:ji2200149.

Liew MF, Lim HF, Liang MC, Lim I, Tan Z, Tan RYM, Sam QH, Soe WM, Tay SH, Xu S, Chang MW, Foo R, Soong TW, Ravikumar S, Chai LYA. Dominant Negative TRAF3 Variant With Recurrent *Mycobacterium abscessus* Infection and Bronchiectasis. *Open Forum Infect Dis.* 2022 Aug 3;9(8):ofac379

Lim JME, Hang SK, Hariharaputran S, Chia A, Tan N, Lee ES, Chng E, Lim PL, Young BE, Lye DC, Le Bert N, Bertoletti A, Tan AT. A comparative characterization of SARS-CoV-2-specific T cells induced by mRNA or inactive virus COVID-19 vaccines. *Cell Rep Med.* 2022 Nov 15;3(11):100793.

Lim JQ, Huang D, Chan JY, Laurensia Y, Wong EKY, Cheah DMZ, Chia BKH, Chuang WY, Kuo MC, Su YJ, Cai QQ, Feng Y, Rao H, Feng LN, Wei PP, Chen JR, Han BW, Lin GW, Cai J, Fang Y, Tan J, Hong H, Liu Y, Zhang F, Li W, Poon MLM, Ng SB, Jeyasekharan A, Ha JCH, Khoo LP, Chin ST, Pang WL, Kee R, Cheng CL, Grigoropoulos NF, Tang T, Tao M, Farid M, Puan KJ, Xiong J, Zhao WL, Khor CC, Hwang W, Kim WS, Campo E, Tan P, Teh BT, Chng WJ, Rötzschke O, Tousseyen T, Huang HQ, Rozen S, Lim ST, Shih LY, Bei JX, Ong CK. A genomic-augmented multivariate prognostic model for the survival of Natural-killer/T-cell lymphoma patients from an international cohort. *Am J Hematol.* 2022 Jun 20. [Epub ahead of print]

Lim YL, Bohelay G, Hanakawa S, Musette P, Janelia B. Autoimmune Pemphigus: Latest Advances and Emerging Therapies. *Front Mol Biosci.* 2022 Feb 4;8:808536.

Lin WN, Tay MZ, Wong JXE, Lee CY, Fong SW, Wang CI, Ng LFP, Renia L, Chen CH, Cheow LF. Rapid microfluidic platform for screening and enrichment of cells secreting virus neutralizing antibodies. *Lab Chip.* 2022 Jun 13. [Epub ahead of print]

Liu EG, Zhang B, Martin V, Anthonypillai J, Kraft M, Grishin A, Grishina G, Catanzaro JR, Chinthurajah S, Sindher T, Manohar M, Quake AZ, Nadeau K, Burks AW, Kim EH, Kulis MD, Henning AK, Jones SM, Leung DYM, Sicherer SH, Wood RA, Yuan Q, Shreffler W, Sampson H, Shabanova V, Eisenbarth SC. Food-specific immunoglobulin A does not correlate with natural tolerance to peanut or egg allergens. *Sci Transl Med.* 2022 Nov 16;14(671):eabq0599.

Liu WN, So WY, Harden SL, Fong SY, Wong MXY, Tan WWS, Tan SY, Ong JKL, Rajarethnam R, Liu M, Cheng JY, Suteja L, Yeong JPS, Iyer NG, Lim DW, Chen Q. Successful targeting of PD-1/PD-L1 with chimeric antigen receptor-natural killer cells and nivolumab in a humanized mouse cancer model. *Sci Adv.* 2022 Nov 25;8(47):eadd1187.

Lo YT, Lim VY, Ng M, Tan YH, Chiang J, Chang EWY, Chan JY, Poon EYL, Somasundaram N, Bin Harun Rashid MF, Tao M, Lim ST, Yang VS. A Prognostic Model Using Post-Steroid Neutrophil-Lymphocyte Ratio Predicts Overall Survival in Primary Central Nervous System Lymphoma. *Cancers (Basel).* 2022 Apr 3;14(7):1818.

Loh J, Ang YLE, Jain A, Yeong J, Sundar R. Targeting Anaplastic Lymphoma Kinase in GI Primary Malignancies. *JCO Precis Oncol.* 2022 Jul;6:e2200208.

Loh JT, Lam KP. Neutrophils in the Pathogenesis of Rheumatic Diseases. *Rheumatol Immunol Res.* 2022 Oct 20;3(3):120-127.

Loh JT, Teo JKH, Lam KP. Dok3 restrains neutrophil production of calprotectin during TLR4 sensing of SARS-CoV-2 spike protein. *Front Immunol.* 2022 Sep 12;13:996637.

Loh JT, Zhang B, Teo JKH, Lai RC, Choo ABH, Lam KP, Lim SK. Mechanism for the attenuation of neutrophil and complement hyperactivity by MSC exosomes. *Cytotherapy*. 2022 Feb 14:S1465-3249(22)00018-4.

Loh Z, Huan X, Awate S, Schrittweis M, Renia L, Ren EC. Molecular Characterization of MHC Class I Alpha 1 and 2 Domains in Asian Seabass (*Lates calcarifer*). *Int J Mol Sci*. 2022 Sep 14;23(18):10688.

Long Y, Wu M, Liu Y, Fang Y, Kwok CK, Chen J, Luo J, Li X. Pre-training Graph Neural Networks for Link Prediction in Biomedical Networks. *Bioinformatics*. 2022 Feb 16:btac100.

Low JM, Gu Y, Ng MSF, Wang LW, Amin Z, Zhong Y, MacAry PA. Human Milk Antibodies after BNT162b2 Vaccination Exhibit Reduced Binding against SARS-CoV-2 Variants of Concern. *Vaccines (Basel)*. 2022 Jan 31;10(2):225.

Lu Y, Lim WS, Jin X, Zin Nyunt MS, Fulop T, Gao Q, Lim SC, Larbi A, Ng TP. Lower insulin level is associated with sarcopenia in community-dwelling frail and non-frail older adults. *Front Med (Lausanne)*. 2022 Nov 22;9:971622.

Lu Y, Liu BP, Tan CT, Pan F, Larbi A, Ng TP. Lifetime pathogen burden, inflammatory markers, and depression in community-dwelling older adults. *Brain Behav Immun*. 2022 Feb 22;102:124-134.

Miyake T, Egawa G, Chow Z, Asahina R, Otsuka M, Nakajima S, Nomura T, Shibuya R, Ishida Y, Nakamizo S, Murata T, Kitoh A, Kabashima K. Circadian rhythm affects the magnitude of contact hypersensitivity response in mice. *Allergy*. 2022 Apr 15. [Epub ahead of print]

Montaldo E, Lusito E, Bianchessi V, Caronni N, Scala S, Basso-Ricci L, Cantaffa C, Masserdotti A, Barilaro M, Barresi S, Genua M, Vittoria FM, Barbiera G, Lazarevic D, Messina C, Xue E, Marktel S, Tresoldi C, Milani R, Ronchi P, Gattillo S, Santoleri L, Di Micco R, Ditadi A, Belfiori G, Aleotti F, Naldini MM, Gentner B, Gardiman E, Tamassia N, Cassatella MA, Hidalgo A, Kwok I, Ng LG, Crippa S, Falconi M, Pettinella F, Scapini P, Naldini L, Ciceri F, Aiuti A, Ostuni R. Cellular and transcriptional dynamics of human neutrophils at steady state and upon stress. *Nat Immunol*. 2022 Oct;23(10):1470-1483.

Murata T, Honda T, Mostafa A, Kabashima K. Stratum corneum as polymer sheet: concept and cornification processes. *Trends Mol Med*. 2022 Mar 22:S1471-4914(22)00049-1.

Musters AH, Broderick C, Prieto-Merino D, Chiricozzi A, Damiani G, Peris K, Dhar S, De A, Freeman E, Arents BWM, Burton T, Bosma ALL, Chi CC, Fletcher G, Drucker AM, Kabashima K, de Monchy EF, Panda M, Wall DR, Vestergaard C, Mahé E, Bonzano L, Kattach L, Napolitano M, Ordoñez-Rubiano MF, Haufe E, Patruno C, Irvine AD, Spuls PI, Flohr C. The effects of systemic immunomodulatory treatments on COVID-19 outcomes in patients with atopic dermatitis: Results from the global SECURE-AD registry. *J Eur Acad Dermatol Venereol*. 2022 Sep 28:10.1111/jdv.18613.

Nakagawa Y, Egawa G, Miyake T, Nakajima S, Otsuka A, Nomura T, Kitoh A, Dainichi T, Sakabe JI, Shibaki A, Tokura Y, Honda T, Kabashima K. A Phenotypic Analysis of Involucrin-Membrane-Bound Ovalbumin Mice after Adoptive Transfer of Ovalbumin-Specific CD8 + T Cells. *JID Innov*. 2022 Mar 30;2(5):100127.

Nakashima C, Doi H, Nakajima S, Mashimo T, Oga T, Ishida-Yamamoto A, Honda T, Ishida Y, Otsuka A, Kabashima K. Filaggrin-deficient rats generated using zinc-finger nucleases spontaneously exhibit dry scaly skin. *Allergol Int*. 2022 May 8:S1323-8930(22)00039-9.

Nalio Ramos R, Missolo-Koussou Y, Gerber-Ferder Y, Bromley CP, Bugatti M, Núñez NG, Tosello Boari J, Richer W, Menger L, Denizeau J, Sedlik C, Caudana P, Kotsias F, Niborski LL, Viel S, Bohec M, Lameiras S, Baulande S, Lesage L, Nicolas A, Meseure D, Vincent-Salomon A, Reyal F, Dutertre CA, Ginhoux F, Vimeux L, Donnadieu E, Buttard B, Galon J, Zelenay S, Vermi W, Guermonprez P, Piaggio E, Helft J. Tissue-resident FOLR2 + macrophages associate with CD8 + T cell infiltration in human breast cancer. *Cell*. 2022 Mar 18:S0092-8674(22)00201-X.

Neo SY, Jing X, Tong L, Tong D, Gao J, Chen Z, De Los Santos MC, Burduli N, De Souza Ferreira S, Wagner AK, Alici E, Rolny C, Cao Y, Lundqvist A. Tumor MHC class I expression alters cancer-associated myelopoiesis driven by host NK cells. *J Immunother Cancer*. 2022 Oct;10(10):e005308.

Ng LG. Neutrophils guide pre-existing matrix into injured organs to initiate tissue repair. *Nat Immunol*. 2022 Apr;23(4):472-473.

Ng M, Chen S, Ong WS, Balachander A, Seet A, Yeong J, Sutiman N, Lim TKH, Lee B, Guo YA, Leong WF, Lee SS, Lam J, Choo SP, Skanderup AJ, Biswas SK, Tai D, Chowbay B. A phase 1b study of OXIRI in pancreatic adenocarcinoma patients and its immunomodulatory effects. *Int J Cancer*. 2022 Apr 12. [Epub ahead of print]

Oh BLZ, Tan N, de Alwis R, Kunasegaran K, Chen Z, Poon M, Chan E, Low JG, Yeoh AEJ, Bertoletti AA, Le Bert N. Enhanced BNT162b2 vaccine-induced cellular immunity in anti-CD19 CAR T cell treated patients. *Blood*. 2022 Apr 26:blood.2022016166.

Ong CHC, Lee DY, Lee B, Li H, Lim JCT, Lim JX, Yeong JPS, Lau HY, Thike AA, Tan PH, Iqbal J. Hypoxia-regulated carbonic anhydrase IX (CAIX) protein is an independent prognostic indicator in triple negative breast cancer. *Breast Cancer Res*. 2022 Jun 3;24(1):38.

Ong HH, Andiappan AK, Duan K, Lum J, Liu J, Tan KS, Howland S, Lee B, Ong YK, Thong M, Chow VT, Wang DY. Transcriptomics of rhinovirus persistence reveals sustained expression of RIG-I and interferon-stimulated genes in nasal epithelial cells in vitro. *Allergy*. 2022 Mar 10. [Epub ahead of print]

Paolicelli RC, Sierra A, Stevens B, Tremblay ME, Aguzzi A, Ajami B, Amit I, Audinat E, Bechmann I, Bennett M, Bennett F, Bessis A, Biber K, Bilbo S, Blurton-Jones M, Boddeke E, Brites D, Brône B, Brown GC, Butovsky O, Carson MJ, Castellano B, Colonna M, Cowley SA, Cunningham C, Davalos D, De Jager PL, de Strooper B, Denes A, Eggen BJL, Eyo U, Galea E, Garel S, Ginhoux F, Glass CK, Gokce O, Gomez-Nicola D, González B, Gordon S, Graeber MB, Greenhalgh AD, Gressens P, Greter M, Gutmann DH, Haass C, Heneka MT, Heppner FL, Hong S, Hume DA, Jung S, Kettenmann H, Kipnis J, Koyama R, Lemke G, Lynch M, Majewska A, Malcangio M, Malm T, Mancuso R, Masuda T, Matteoli M, McColl BW, Miron VE, Molofsky AV, Monje M, Mracsko E, Nadjar A, Neher JJ, Neniskeye U, Neumann H, Noda M, Peng B, Peri F, Perry VH, Popovich PG, Pridans C, Priller J, Prinz M, Ragozzino D, Ransohoff RM, Salter MW, Schaefer A, Schafer DP, Schwartz M, Simons M, Smith CJ, Streit WJ, Tay TL, Tsai LH, Verkhratsky A, von Bernhardi R, Wake H, Wittamer V, Wolf SA, Wu LJ, Wyss-Coray T. Microglia states and nomenclature: A field at its crossroads. *Neuron*. 2022 Nov 2;110(21):3458-3483.

Park MD, Silvin A, Ginhoux F, Merad M. Macrophages in health and disease. *Cell*. 2022 Nov 10;185(23):4259-4279.

Poh XY, Lee IR, Lim C, Teo J, Rao S, Chia PY, Ong SWX, Lee TH, Lin RJH, Ng LFP, Ren EC, Lin RTP, Wang LF, Renia L, Lye DC, Young BE. Evaluation of the safety and immunogenicity of different COVID-19 vaccine combinations in healthy individuals: study protocol for a randomized, subject-blinded, controlled phase 3 trial [PRIBIVAC]. *Trials*. 2022 Jun 16;23(1):498.

Poh XY, Tan CW, Lee IR, Chavatte JM, Fong SW, Prince T, Hartley C, Yeoh AY, Rao S, Chia PY, Ong SW, Lee TH, Sadarangani SP, Lin RJ, Lim C, Teo J, Lim DR, Chia W, Hiscox JA, Ng LFP, Ren EC, Lin RT, Renia L, Lye DC, Wang LF, Young BE. Antibody response of heterologous vs homologous mRNA vaccine boosters against the SARS-CoV-2 Omicron variant: interim results from the PRIBIVAC study, A Randomized Clinical Trial. *Clin Infect Dis*. 2022 May 11:ciac345.

Prasad M, Ponnalagu S, Zeng Q, Luu K, Lang SM, Wong HY, Cheng MS, Wu M, Mallilankaraman K, Sobota RM, Lim YT, Wang LC, Goh CK, Tay KXJ, Loh KS, Wang CI, Lee WH, Goh BC, Lim CM, Schwarz H. Epstein-Barr virus-induced ectopic CD137 expression helps nasopharyngeal carcinoma to escape immune surveillance and enables targeting by chimeric antigen receptors. *Cancer Immunol Immunother*. 2022 Mar 17. [Epub ahead of print]

Provost G, Lavoie FB, Larbi A, Ng TP, Ying CTT, Chua M, Fulop T, Cohen AA. Novel approach to analysis of the immune system using an ungated model of immune surface marker abundance to predict health outcomes. *Immun Ageing*. 2022 Aug 4;19(1):35.

Qi J, Sun H, Zhang Y, Wang Z, Xun Z, Li Z, Ding X, Bao R, Hong L, Jia W, Fang F, Liu H, Chen L, Zhong J, Zou D, Liu L, Han L, Ginhoux F, Liu Y, Ye Y, Su B. Single-cell and spatial analysis reveal interaction of FAP + fibroblasts and SPP1 + macrophages in colorectal cancer. *Nat Commun*. 2022 Apr 1;13(1):1742.

Qui M, Le Bert N, Chan WPW, Tan M, Hang SK, Hariharaputran S, Sim JXY, Low JGH, Ng W, Wan WY, Ang TL, Bertoletti A, Salazar E. Favorable vaccine-induced SARS-CoV-2-specific T cell response profile in patients undergoing immune-modifying therapies. *J Clin Invest*. 2022 Jun 15;132(12):e159500.

Renia L, Goh YS, Rouers A, Le Bert N, Chia WN, Chavatte JM, Fong SW, Chang ZW, Zhuo NZ, Tay MZ, Chan YH, Tan CW, Yeo NK, Amrun SN, Huang Y, Wong JXE, Hor PX, Loh CY, Wang B, Ngoh EZX, Salleh SNM, Carissimo G, Dowla S, Lim AJ, Zhang J, Lim JME, Wang CI, Ding Y, Pada S, Sun LJ, Somani J, Lee ES, Ong DLS; SCOPE Cohort Study Group, Leo YS, MacAry PA, Lin RTP, Wang LF, Ren EC, Lye DC, Bertoletti A, Young BE, Ng LFP. Lower vaccine-acquired immunity in the elderly population following two-dose BNT162b2 vaccination is alleviated by a third vaccine dose. *Nat Commun*. 2022 Aug 8;13(1):4615.

Rebejac J, Eme-Scolan E, Arnaud Paroutaud L, Kharbouche S, Teleman M, Spinelli L, Gallo E, Roussel-Queval A, Zarubica A, Sansoni A, Bardin Q, Hoest P, Michallet MC, Brousse C, Crozat K, Manglani M, Liu Z, Ginhoux F, McGavern DB, Dalod M, Malissen B, Lawrence T, Rua R. Meningeal macrophages protect against viral neuroinfection. *Immunity*. 2022 Nov 8;55(11):2103-2117.e10.

Rouers A, Wong N, Goh YS, Torres-Ruesta A, Tay MZ, Chang ZW, Fong SW, Neo V, Kam IKJ, Yeo NK, Huang Y, Loh CY, Hor PX, Wong JXE, Tan YJ; COVID-19 Study Group, Macary PA, Qian X, Bei W, Ngoh EZX, Salleh SNM, Wang CI, Poh XY, Rao S, Chia PY, Ong SWX, Lee TH, Lin RJH, Lim C, Teo J, Ren EC, Lye DC, Young BE, Ng LFP, Renia L. Efficient recall of SARS-CoV-2 variant-reactive B cells and T responses in the elderly upon heterologous mRNA vaccines as boosters. *J Med Virol*. 2022 Oct 27:e28258.

Røyset ES, Sahlin Pettersen HP, Xu W, Larbi A, Sandvik AK, Steigen SE, Catalan-Serra I, Bakke I. Deep learning-based image analysis reveals significant differences in the number and distribution of mucosal CD3 and  $\gamma\delta$  T cells between Crohn's disease and ulcerative colitis. *J Pathol Clin Res.* 2022 Nov 23. [Epub ahead of print]

Ruan GX, Li Y, Chen W, Huang H, Zhang R, Chen C, Lam KP, Xu S, Ou X. The spliceosome component Usp39 controls B cell development by regulating immunoglobulin gene rearrangement. *Cell Rep.* 2022 Feb 8;38(6):110338.

Sanchez Sanchez G, Papadopoulou M, Azouz A, Tafesse Y, Mishra A, Chan JKY, Fan Y, Verdebout I, Porco S, Libert F, Ginhoux F, Vandekerckhove B, Goriely S, Vermijlen D. Identification of distinct functional thymic programming of fetal and pediatric human  $\gamma\delta$  thymocytes via single-cell analysis. *Nat Commun.* 2022 Oct 4;13(1):5842.

Sari-Ak D, Alomari O, Shomali RA, Lim J, Thimiri Govinda Raj DB. Advances in CRISPR-Cas9 for the Baculovirus Vector System: A Systematic Review. *Viruses.* 2022 Dec 24;15(1):54.

Schmacke NA, O'Duill F, Gaidt MM, Szymanska I, Kamper JM, Schmid-Burgk JL, Mädler SC, Mackens-Kiani T, Kozaki T, Chauhan D, Nagl D, Stafford CA, Harz H, Fröhlich AL, Pinci F, Ginhoux F, Beckmann R, Mann M, Leonhardt H, Hornung V. IKK $\beta$  primes inflammasome formation by recruiting NLRP3 to the trans-Golgi network. *Immunity.* 2022 Nov 9:S1074-7613(22)00562-3.

Shi R, Gwee X, Chua DQ, Tan CT, Yap KB, Larbi A, Lu Y, Ng TP. Inflammatory markers and incident depression: Evidence in a population-based prospective study. *Psychoneuroendocrinology.* 2022 May 23;142:105806.

Sharma A, Blériot C, Currenti J, Ginhoux F. Oncofetal reprogramming in tumour development and progression. *Nat Rev Cancer.* 2022 Aug 23.

Shima K, Nomura T, Yamada Y, Kobayashi T, Kabashima K. A case of skin rash during oral administration of a novel androgen receptor inhibitor, darolutamide. *J Eur Acad Dermatol Venereol.* 2022 Feb 19. [Epub ahead of print]

Shima K, Nomura T, Yonekura S, Honda Keith Y, Kogame T, Murakami K, Kabashima K. Immunohistochemical study of annular erythema appearing in a patient with sub-acute cutaneous lupus erythematosus. *Skin Health Dis.* 2022 Jun 15;2(3):e124.

Silvin A, Uderhardt S, Piot C, Da Mesquita S, Yang K, Geirsdottir L, Mulder K, Eyal D, Liu Z, Bridlance C, Thion MS, Zhang XM, Kong WT, Deloger M, Fontes V, Weiner A, Ee R, Dress R, Hang JW, Balachander A, Chakarov S, Malleret B, Dunsmore G, Cexus O, Chen J, Garel S, Dutertre CA, Amit I, Kipnis J, Ginhoux F. Dual ontogeny of disease-associated microglia and disease inflammatory macrophages in aging and neurodegeneration. *Immunity.* 2022 Aug 9;55(8):1448-1465.e6.

Shou Y, Johnson SC, Quek YJ, Li X, Tay A. Integrative lymph node-mimicking models created with biomaterials and computational tools to study the immune system. *Mater Today Bio.* 2022 Apr 21;14:100269.

Song Y, Teo HY, Liu Y, Zhang X, Chen J, Zhang Y, Liu H. Reviving human  $\gamma\delta$ T cells from apoptosis induced by IL-12/18 via p-JNK inhibition. *J Leukoc Biol.* 2022 Jun 30. [Epub ahead of print]

St John AL, Rathore APS, Ginhoux F. New perspectives on the origins and heterogeneity of mast cells. *Nat Rev Immunol.* 2022 May 24. [Epub ahead of print]

Sun Q, Gao Y, Zhang Y, Cao H, Liu J, Neo SY, Chen K, Bi Y, Wu J. Prognostic Profiling of the EMT-Associated and Immunity-Related LncRNAs in Lung Squamous Cell Carcinomas. *Cells.* 2022 Sep 15;11(18):2881.

Suthen SD, Lim CJ, Nguyen PHD, Dutertre CA, Lai HLH, Wasser M, Chua C, Lim TKH, Leow WQ, Loh TJ, Wan WK, Pang YH, Soon G, Cheow PC, Kam JH, Iyer S, Kow A, Tam WL, Shuen TWH, Toh HC, Dan YY, Bonney GK, Chan CY, Chung A, Goh BKP, Zhai W, Ginhoux F, Chow PKH, Albani S, Chew V. Hypoxia-driven immunosuppression by Treg and type-2 conventional dendritic cells in hepatocellular carcinoma. *Hepatology.* 2022 Feb 20. [Epub ahead of print]

Tan AT, Bertoletti A. HBV-HCC treatment with mRNA electroporated HBV-TCR T cells. *Immunother Adv.* 2021 Dec 24;2(1):Itab026.

Tan AT, Lim JME, Bertoletti A. Protection from infection or disease? Re-evaluating the broad immunogenicity of inactivated SARS-CoV-2 vaccines. *Virol Sin.* 2022 Nov 7:S1995-820X(22)00186-9.

Tan JSY, Lee B, Lim J, Ma DR, Goh JX, Goh SY, Gulam MY, Koh SM, Lee WW, Feng L, Wang Q, Chao Y, Rötzschke O, Tan EK. Parkinson's Disease-Specific Autoantibodies against the Neuroprotective Co-Chaperone STIP1. *Cells.* 2022 May 16;11(10):1649.

Tan KJ, Nakamizo S, Lee-Okada HC, Sato R, Chow Z, Nakajima S, Common JEA, Saeki K, Yokomizo T, Ginhoux F, Kabashima K. A western diet alters skin ceramides and compromises the skin barrier in ears. *J Invest Dermatol.* 2022 Jan 6:S0022-202X(21)02634-8.

Tay AHM, Prieto-Díaz R, Neo S, Tong L, Chen X, Carannante V, Önfelt B, Hartman J, Haglund F, Majellaro M, Azuaje J, Garcia-Mera X, Brea JM, Loza MI, Jespers W, Gutierrez-de-Teran H, Sotelo E, Lundqvist A. A 2B adenosine receptor antagonists rescue lymphocyte activity in adenosine-producing patient-derived cancer models. *J Immunother Cancer.* 2022 May;10(5):e004592.

Tay MZ, Rouers A, Fong SW, Goh YS, Chan YH, Chang ZW, Xu W, Tan CW, Chia WN, Torres-Ruesta A, Amrun SN, Huang Y, Hor PX, Loh CY, Yeo NK, Wang B, Ngoh EZX, Salleh SNM, Chavatte JM, Lim AJ, Maurer-Stroh S, Wang LF, Lin RT, Wang CI, Tan SY, Young BE, Leo YS, Lye DC, Renia L, Ng LFP. Decreased memory B cells frequencies in COVID-19 Delta variant vaccine breakthrough infection. *EMBO Mol Med.* 2022 Jan 6:e15227.

Tay SH, Santosa A, Goh ECH, Xu CX, Wu LH, Bigliardi-Qi M, Pakkiri LSS, Lee BTK, Drum CL, Bigliardi PL. Characterize NSAID-Induced Urticaria/Angioedema Patients Undergoing Aspirin Desensitization. *J Allergy Clin Immunol.* 2022 Aug 11:S0091-6749(22)01053-3.

Tay SH, Santosa A, Lee BTK, Bigliardi PL. Reply. *J Allergy Clin Immunol.* 2022 Dec 19:S0091-6749(22)01617-7.

Tay SH, Toh MMX, Thian YL, Vellayappan BA, Fairhurst AM, Chan YH, Aminkeng F, Bharwani LD, Huang Y, Mak A, Wong ASC. Cytokine Release Syndrome in Cancer Patients Receiving Immune Checkpoint Inhibitors: A Case Series of 25 Patients and Review of the Literature. *Front Immunol.* 2022 Jan 28;13:807050.

Teh YC, Chooi MY, Liu D, Kwok I, Lai GC, Ayub Ow Yong L, Ng M, Li JLY, Tan Y, Evrard M, Tan L, Lioung KH, Leong K, Goh CC, Chan AYJ, Shadan NB, Mantri CK, Hwang YY, Cheng H, Cheng T, Yu W, Tey HL, Larbi A, St John A, Angeli V, Ruedl C, Lee B, Ginhoux F, Chen SL, Ng LG, Ding JL, Chong SZ. Transitional premonocytes emerge in the periphery for host defense against bacterial infections. *Sci Adv.* 2022 Mar 4;8(9):eabj4641.

Tham KC, Lefferdink R, Duan K, Lim SS, Wong XFCC, Ibler E, Wu B, Abu-Zayed H, Rangel SM, Del Duca E, Chowdhury M, Chima M, Kim HJ, Lee B, Guttman-Yassky E, Paller AS, Common JEA. Distinct skin microbiome community structures in congenital ichthyosis. *Br J Dermatol.* 2022 May 28. [Epub ahead of print]

Torres-Ruesta A, Teo TH, Chan YH, Amrun SN, Yeo NK, Lee CY, Nguee SY, Tay MZ, Nosten F, Fong SW, Lum FM, Carissimo G, Renia L, Ng LF. Malaria abrogates O'nyong-nyong virus pathologies by restricting virus infection in nonimmune cells. *Life Sci Alliance.* 2022 Jan 17;5(4):e202101272.

Tuzlak S, Ginhoux F, Korn T, Becher B. Reply to 'Comment on: Repositioning T H cell polarization from single cytokines to complex help'. *Nat Immunol.* 2022 Feb 21. [Epub ahead of print]

van Bergen W, Hevler JF, Wu W, Baggelaar MP, Heck AJR. SITE-SPECIFIC ACTIVITY-BASED PROTEIN PROFILING USING PHOSPHONATE HANDLES. *Mol Cell Proteomics.* 2022 Nov 23:100455.

Vidergar R, Biswas SK. Metabolic regulation of Cathepsin B in tumor macrophages drives their pro-metastatic function. *Cancer Cell.* 2022 Oct 10;40(10):1079-1081.

Wang JHS, Jiang N, Jain A, Lim J. Development of Effective Siglec-9 Antibodies Against Cancer. *Curr Oncol Rep.* 2022 Nov 29. [Epub ahead of print]

Wu Q, Ning K, Zhao X, Liao F, Wang M, Chang L, Liu Y, Chen J, Zhao M, Chen Z. Editorial: The role of omics characteristics in the diagnosis, treatment, and prognosis of autoimmune diseases. *Front Immunol.* 2022 Nov 2;13:1069918.

Xing X, Mu N, Yuan X, Wang N, Juhlin CC, Strååt K, Larsson C, Neo SY, Xu D. Downregulation and Hypermethylation of GABPB1 Is Associated with Aggressive Thyroid Cancer Features. *Cancers (Basel).* 2022 Mar 8;14(6):1385.

Yam CQX, Lim HH, Surana U. DNA damage checkpoint execution and the rules of its disengagement. *Front Cell Dev Biol.* 2022 Oct 6;10:1020643

Yang S, Sun G, Wu P, Chen C, Kuang Y, Liu L, Zheng Z, He Y, Gu Q, Lu T, Zhu C, Wang F, Gou F, Yang Z, Zhao X, Yuan S, Yang L, Lu S, Li Y, Lv X, Dong F, Ma Y, Yu J, Ng LG, Shi L, Liu J, Shi L, Cheng T, Cheng H. WDR82-binding long noncoding RNA IncEry controls mouse erythroid differentiation and maturation. *J Exp Med.* 2022 Apr 4;219(4):e20211688.

Yu S, Vassilev S, Lim ZR, Sivalingam J, Lam ATL, Ho V, Renia L, Malleret B, Reuveny S, Oh SKW. Selection of O-negative induced pluripotent stem cell clones for high-density red blood cell production in a scalable perfusion bioreactor system. *Cell Prolif.* 2022 Mar 15:e13218.

Zhang B, Huo J, Huang Y, Teo SY, Duan K, Li Y, Toh LK, Lam KP, Xu S. mRNA Booster Vaccination Enhances Antibody Responses against SARS-CoV2 Omicron Variant in Individuals Primed with mRNA or Inactivated Virus Vaccines. *Vaccines.* 2022; 10(7):1057.

Zhang Y, Wang Q, Mackay CR, Ng LG, Kwok I. Neutrophil subsets and their differential roles in viral respiratory diseases. *J Leukoc Biol.* 2022 Jan 18. [Epub ahead of print]

Zhou H, Lou F, Bai J, Sun Y, Cai W, Sun L, Xu Z, Liu Z, Zhang L, Yin Q, Zhang J, Gao Y, Wang Z, Niu L, Cai X, Deng S, Wang H, Xia L, Ginhoux F, Li Q, Wang H. A peptide encoded by pri-miRNA-31 represses autoimmunity by promoting T reg differentiation. *EMBO Rep.* 2022 Mar 28:e53475.

Zhu A, Real F, Capron C, Rosenberg AR, Silvin A, Dunsmore G, Zhu J, Cottoignies-Callamarte A, Massé JM, Moine P, Bessis S, Godement M, Geri G, Chiche JD, Valdebenito S, Belouzard S, Dubuisson J, Lorin de la Grandmaison G, Chevret S, Ginhoux F, Eugenin EA, Annane D, Bordé EC, Bomsel M. Infection of lung megakaryocytes and platelets by SARS-CoV-2 anticipate fatal COVID-19. *Cell Mol Life Sci.* 2022 Jun 16;79(7):365.

Ziae A, Garcia-Miralles M, Radulescu CI, Sidik H, Silvin A, Bae HG, Bonnard C, Yusof NABM, Ferrari Bardile C, Tan LJ, Ng AYJ, Tohari S, Dehghani L, Henry L, Yeo XY, Lee S, Venkatesh B, Langley SR, Shaygannejad V, Reversade B, Jung S, Ginhoux F, Pouladi MA. Ermin deficiency leads to compromised myelin, inflammatory milieu, and susceptibility to demyelinating insult. *Brain Pathol.* 2022 Mar 13:e13064.

Ziegler-Heitbrock L, Ohteki T, Ginhoux F, Shortman K, Spits H. Reclassifying plasmacytoid dendritic cells as innate lymphocytes. *Nat Rev Immunol.* 2022 Nov 15. [Epub ahead of print]