

2021 SIgN Publications (with impact factor >4)

Last updated: 24 December 2021

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Ackermann M, Anders HJ, Bilyy R, Bowlin GL, Daniel C, De Lorenzo R, Egebлад M, Henneck T, Hidalgo A, Hoffmann M, Hohberger B, Kanthi Y, Kaplan MJ, Knight JS, Knopf J, Kolaczkowska E, Kubes P, Leppkes M, Mahajan A, Manfredi AA, Maueröder C, Maugeri N, Mitroulis I, Muñoz LE, Narasaraju T, Naschberger E, Neeli I, Ng LG, Radic MZ, Ritis K, Rovere-Querini P, Schapher M, Schauer C, Simon HU, Singh J, Skendros P, Stark K, Stürzl M, van der Vlag J, Vandeneabeele P, Vitkov L, von Köckritz-Blickwede M, Yanginlar C, Yousefi S, Zarbock A, Schett G, Herrmann M. Patients with COVID-19: in the dark-NETs of neutrophils. *Cell Death Differ.* 2021 May 24:1-15.

Adachi A, Honda T, Dainichi T, Egawa G, Yamamoto Y, Nomura T, Nakajima S, Otsuka A, Maekawa M, Mano N, Koyanagi N, Kawaguchi Y, Ohteki T, Nagasawa T, Ikuta K, Kitoh A, Kabashima K. Prolonged high-intensity exercise induces fluctuating immune responses to herpes simplex virus infection via glucocorticoids. *J Allergy Clin Immunol.* 2021 May 6:S0091-6749(21)00724-7.

Andiappan AK, Asad M, Chua C, Sehanobish E, Ren Z, Chan XY, Lum J, Ang N, Duan K, Gersten A, Abuzeid WM, Akbar N, Gibber M, Howland S, Lee B, Rotzschke O, Porcelli SA, Jerschow E. Neutrophilic inflammation and epithelial barrier disruption in nasal polyps characterize NSAID-exacerbated respiratory disease. *Allergy.* 2021 Dec 18. [Epub ahead of print]

Andreata F, Blériot C, Di Lucia P, De Simone G, Fumagalli V, Ficht X, Beccaria CG, Kuka M, Ginhoux F, Iannacone M. Isolation of mouse Kupffer cells for phenotypic and functional studies. *STAR Protoc.* 2021 Sep 14;2(4):100831.

Arkin LM, Moon JJ, Tran JM, Asgari S, O'Farrelly C, Casanova JL, Cowen EW, Mays JW, Singh AM, Drolet BA; COVID Human Genetic Effort. From Your Nose to Your Toes: A Review of Severe Acute Respiratory Syndrome Coronavirus 2 Pandemic-Associated Pernio. *J Invest Dermatol.* 2021 Jul 15:S0022-202X(21)01351-8.

Asarnow D, Wang B, Lee WH, Hu Y, Huang CW, Faust B, Ng PML, Ngoh EZX, Bohn M, Bulkley D, Pizzorno A, Ary B, Tan HC, Lee CY, Minhat RA, Terrier O, Soh MK, Teo FJ, Yeap YYC, Seah SGK, Chan CEZ, Connelly E, Young NJ, Maurer-Stroh S, Renia L, Hanson BJ, Rosa-Calatrava M, Manglik A, Cheng Y, Craik CS, Wang CI. Structural insight into SARS-CoV-2 neutralizing antibodies and modulation of syncytia. *Cell.* 2021 Apr 24:S0092-8674(21)00536-5.

Baeza Garcia A, Siu E, Du X, Leng L, Franke-Fayard B, Janse CJ, Howland SW, Rénia L, Lolis E, Bucala R. Suppression of Plasmodium MIF-CD74 signaling protects against severe malaria. *FASEB J.* 2021 Dec;35(12):e21997.

Baharom F, Ramirez-Valdez RA, Tobin KKS, Yamane H, Dutertre CA, Khalilnezhad A, Reynoso GV, Coble VL, Lynn GM, Mulè MP, Martins AJ, Finnigan JP, Zhang XM, Hamerman JA, Bhardwaj N, Tsang JS, Hickman HD, Ginhoux F, Ishizuka AS, Seder RA. Intravenous nanoparticle vaccination generates stem-like TCF1+ neoantigen-specific CD8+ T cells. *Nat Immunol.* 2021 Jan;22(1):41-52.

Becht E, Tolstrup D, Dutertre CA, Morawski PA, Campbell DJ, Ginhoux F, Newell EW, Gottardo R, Headley MB. High-throughput single-cell quantification of hundreds of proteins using conventional flow cytometry and machine learning. *Sci Adv.* 2021 Sep 24;7(39):eabg0505.

Bertoletti A, Le Bert N, Qui M, Tan AT. SARS-CoV-2-specific T cells in infection and vaccination. *Cell Mol Immunol.* 2021 Sep 1:1-6.

Bhattacharjee O, Ayyangar U, Kurbet AS, Lakshmanan V, Palakodeti D, Ginhoux F, Raghavan S. Epithelial-Macrophage Crosstalk Initiates Sterile Inflammation in Embryonic Skin. *Front Immunol.* 2021 Oct 14;12:718005.

Blériot C, Barreby E, Dunsmore G, Ballaire R, Chakarov S, Ficht X, De Simone G, Andreata F, Fumagalli V, Guo W, Wan G, Gessain G, Khalilnezhad A, Zhang XM, Ang N, Chen P, Morgantini C, Azzimato V, Kong WT, Liu Z, Pai R, Lum J, Shihui F, Low I, Xu C, Malleret B, Kairi MFM, Balachander A, Cexus O, Larbi A, Lee B, Newell EW, Ng LG, Phoo WW, Sobota RM, Sharma A, Howland SW, Chen J, Bajenoff M, Yvan-Charvet L, Venteclef N, Iannaccone M, Aouadi M, Ginhoux F. A subset of Kupffer cells regulates metabolism through the expression of CD36. *Immunity.* 2021 Aug 24:S1074-7613(21)00336-8.

Blériot C, Liu Z, Ginhoux F. Water quality check: macrophages setting the standards. *Cell Res.* 2021 Jan;31(1):3-4.

Bouleau A, Nozach H, Dubois S, Kereselidze D, Chevaleyre C, Wang CI, Evans MJ, Lebon V, Maillere B, Truillet C, Truillet. Optimizing immunopET imaging of tumor PD-L1 expression: pharmacokinetics, biodistribution and dosimetric comparisons of 89Zr-labeled anti-PD-L1 antibody formats. *J Nucl Med.* 2021 Dec 21:jnumed.121.262967.

Carissimo G, Ng LFP. A promiscuous interaction of SARS-CoV-2 with bacterial products. *J Mol Cell Biol.* 2020 Dec 16:mjaa068.

Caronni N, Piperno GM, Simoncello F, Romano O, Vodret S, Yanagihashi Y, Dress R, Dutertre CA, Bugatti M, Bourdeley P, Del Prete A, Schioppa T, Mazza EMC, Collavin L, Zacchigna S, Ostuni R, Guermonprez P, Vermi W, Ginhoux F, Bicciato S, Nagata S, Benvenuti F. TIM4 expression by dendritic cells mediates uptake of tumor-associated antigens and anti-tumor responses. *Nat Commun.* 2021 Apr 14;12(1):2237.

Carre C, Wong G, Narang V, Tan C, Chong J, Chin HX, Xu W, Lu Y, Chua M, Poidinger M, Tambyah P, Nyunt M, Ng TP, Larocque D, Hessler C, Bosco N, Quemeneur L, Larbi A. Endoplasmic reticulum stress response and bile acid signatures associate with multi-strain seroresponsiveness during elderly influenza vaccination. *iScience.* 2021 Aug 11;24(9):102970.

Ceccarello E, Tabaglio T, Koh S, Oei V, Teo W, Jonathan OJ, Pavesi A, Chen Q, Bertoletti A, Wee KB, Guccione E. Splice-Switching Antisense Oligonucleotides as a Targeted Intrinsic Engineering Tool for Generating Armored Redirected T Cells. *Nucleic Acid Ther.* 2021 Feb 9. [Epub ahead of print]

Chan CY, Teo S, Lu L, Chan YH, Lau PY, Than M, Jordan SC, Lam KP, Ng KH, Yap HK. Low regulatory T-cells: A distinct immunological subgroup in minimal change nephrotic syndrome with early relapse following rituximab therapy. *Transl Res.* 2021 Mar 31:S1931-5244(21)00082-7.

Chan YH, Fong SW, Poh CM, Carissimo G, Yeo NK, Amrun SN, Goh YS, Lim J, Xu W, Chee RS, Torres-Ruesta A, Lee CY, Tay MZ, Chang ZW, Lee WH, Wang B, Tan SY, Kalimuddin S, Young BE, Leo YS, Wang CI, Lee B, Rötzschke O, Lye DC, Renia L, Ng LFP. Asymptomatic COVID-19: disease tolerance with efficient anti-viral immunity against SARS-CoV-2. *EMBO Mol Med.* 2021 May 7:e14045.

Chan YH, Young BE, Fong SW, Ding Y, Goh YS, Chee RS, Tan SY, Kalimuddin S, Tambyah PA, Leo YS, Ng LFP, Lye DC, Renia L. Differential Cytokine Responses in Hospitalized COVID-19 Patients Limit Efficacy of Remdesivir. *Front Immunol.* 2021 Jun 28;12:680188.

Chawla M, Mukherjee T, Deka A, Chatterjee B, Sarkar UA, Singh AK, Kedia S, Lum J, Dhillon MK, Banoth B, Biswas SK, Ahuja V, Basak S. An epithelial NfkB2 pathway exacerbates intestinal inflammation by supplementing latent RelA dimers to the canonical NF- κ B module. *Proc Natl Acad Sci U S A.* 2021 Jun 22;118(25):e2024828118.

Cheng Y, Gunasegaran B, Singh HD, Dutertre CA, Loh CY, Lim JQ, Crawford JC, Lee HK, Zhang X, Lee B, Becht E, Lim WJ, Yeong J, Chan CY, Chung A, Goh BKP, Chow PKH, Chan JKY, Ginhoux F, Tai D, Chen J, Lim SG, Zhai W, Choo SP, Newell EW. Non-terminally exhausted tumor-resident memory HBV-specific T cell responses correlate with relapse-free survival in hepatocellular carcinoma. *Immunity.* 2021 Aug 10;54(8):1825-1840.e7.

Chia WN, Zhu F, Ong SWX, Young BE, Fong SW, Le Bert N, Tan CW, Tiu C, Zhang J, Tan SY, Pada S, Chan YH, Tham CYL, Kunasegaran K, Chen MI, Low JGH, Leo YS, Renia L, Bertolletti A, Ng LFP, Lye DC, Wang LF. *Lancet Microbe.* 2021 Mar 23. [Epub ahead of print]

Chioh FW, Fong SW, Young BE, Wu KX, Siau A, Krishnan S, Chan YH, Carissimo G, Teo LL, Gao F, Tan RS, Zhong L, Koh AS, Tan SY, Tambyah PA, Renia L, Ng LF, Lye DC, Cheung C. Convalescent COVID-19 patients are susceptible to endothelial dysfunction due to persistent immune activation. *Elife.* 2021 Mar 23;10:e64909.

Christo SN, Evrard M, Park SL, Gandolfo LC, Burn TN, Fonseca R, Newman DM, Alexandre YO, Collins N, Zamudio NM, Souza-Fonseca-Guimaraes F, Pellicci DG, Chisanga D, Shi W, Bartholin L, Belz GT, Huntington ND, Lucas A, Lucas M, Mueller SN, Heath WR, Ginhoux F, Speed TP, Carbone FR, Kallies A, Mackay LK. Discrete tissue microenvironments instruct diversity in resident memory T cell function and plasticity. *Nat Immunol.* 2021 Sep;22(9):1140-1151.

Chua KP, Teng YHF, Tan AC, Takano A, Alvarez JJS, Nahar R, Rohatgi N, Lai GGY, Aung ZW, Yeong JPS, Lim KH, Naeini MM, Kassam I, Jain A, Tan WL, Gogna A, Too CW, Kanesvaran R, Ng QS, Ang MK, Rajasekaran T, Anantham D, Phua GC, Tan BS, Lee YY, Wang LY, Teo ASM, Khng AJ, Lim MJ, Suteja L, Toh CK, Lim WT, Iyer NG, Tam WL, Tan EH, Zhai W, Hillmer AM, Skanderup AJ, Tan DSW. Integrative Profiling of T790M Negative EGFR Mutated NSCLC Reveals Pervasive Lineage Transition and Therapeutic Opportunities. *Clin Cancer Res.* 2021 Jul 14:clincanres.4607.2020.

Cossarizza A, Chang HD, Radbruch A, Abrignani S, Addo R, Akdis M, Andrä I, Andreata F, Annunziato F, Arranz E, Bacher P, Bari S, Barnaba V, Barros-Martins J, Baumjohann D, Beccaria CG, Bernardo D, Boardman DA, Borger J, Böttcher C, Brockmann L, Burns M, Busch DH, Cameron G, Cammarata I, Cassotta A, Chang Y, Chirdo FG, Christakou E, Čičin-Šain L, Cook L, Corbett AJ, Cornelis R, Cosmi L, Davey MS, De Biasi S, De Simone G, Del Zotto G, Delacher M, Di Rosa F, Santo JD, Diefenbach A, Dong J, Dörner T, Dress RJ, Dutertre CA, Eckle SBG, Eede P, Evrard M, Falk CS, Feuerer M, Fillatreau S, Fiz-Lopez A, Follo M, Foulds GA, Fröbel J, Gagliani N, Galletti G, Gangaev A, Garbi N, Garrote JA, Geginat J, Gherardin NA, Gibellini L, Ginhoux F, Godfrey DI, Gruarin P, Haftmann C, Hansmann L, Harpur CM, Hayday AC, Heine G, Hernández DC, Herrmann M, Hoelsken O, Huang Q, Huber S, Huber JE, Huehn J, Hundemer M, Hwang WYK, Iannacone M, Ivison SM, Jäck HM, Jani PK, Keller B, Kessler N, Ketelaars S, Knopf L, Knopf J, Koay HF, Kobow K, Kriegsmann K, Kristyanto H, Krueger A, Kuehne JF, Kunze-Schumacher H, Kvistborg P, Kwok I, Latorre D, Lenz D, Levings MK, Lino AC, Liotta F, Long HM, Lugli E, MacDonald KN, Maggi L, Maini MK, Mair F, Manta C, Manz RA, Mashreghi MF, Mazzoni A, McCluskey J, Mei HE, Melchers F, Melzer S, Mielenz D, Monin L, Moretta L, Multhoff G, Muñoz LE,

Muñoz-Ruiz M, Muscate F, Natalini A, Neumann K, Ng LG, Niedobitek A, Niemz J, Almeida LN, Notarbartolo S, Ostendorf L, Pallett LJ, Patel AA, Percin GI, Peruzzi G, Pinti M, Pockley AG, Pracht K, Prinz I, Pujol-Autonell I, Pulvirenti N, Quatrini L, Quinn KM, Radbruch H, Rhys H, Rodrigo MB, Romagnani C, Saggau C, Sakaguchi S, Sallusto F, Sanderink L, Sandrock I, Schauer C, Scheffold A, Scherer HU, Schiemann M, Schildberg FA, Schober K, Schoen J, Schuh W, Schüler T, Schulz AR, Schulz S, Schulze J, Simonetti S, Singh J, Sitnik KM, Stark R, Starosom S, Stehle C, Szelinski F, Tan L, Tarnok A, Tornack J, Tree TIM, van Beek JJP, van de Veen W, van Gisbergen K, Vasco C, Verheyden NA, von Borstel A, Ward-Hartstone KA, Warnatz K, Waskow C, Wiedemann A, Wilharm A, Wing J, Wirz O, Wittner J, Yang JHM, Yang J. Guidelines for the use of flow cytometry and cell sorting in immunological studies (third edition). *Eur J Immunol*. 2021 Dec;51(12):2708-3145.

Dainichi T, Kabashima K, Ivanov II, Goto Y. Editorial: Regulation of Immunity by Non-Immune Cells. *Front Immunol*. 2021 Sep 21;12:770847.

Dandri M, Bertoletti A, Lütgehetmann M. Innate immunity in hepatitis B and D virus infection: consequences for viral persistence, inflammation, and T cell recognition. *Semin Immunopathol*. 2021 May 21. [Epub ahead of print]

De Simone G, Andreata F, Bleriot C, Fumagalli V, Laura C, Garcia-Manteiga JM, Di Lucia P, Gilotto S, Ficht X, De Ponti FF, Bono EB, Giustini L, Ambrosi G, Mainetti M, Zordan P, Bénéchet AP, Ravà M, Chakarov S, Moalli F, Bajenoff M, Guidotti LG, Ginhoux F, Iannacone M. Identification of a Kupffer cell subset capable of reverting the T cell dysfunction induced by hepatocellular priming. *Immunity*. 2021 Aug 26:S1074-7613(21)00211-9.

Egawa G, Kabashima K. A new player in the dermis. *Elife*. 2021 May 10;10:e68979.

Evrard M, Kwok I, Ng LG. Intrafemoral Delivery of Hematopoietic Progenitors. *Methods Mol Biol*. 2021;2308:151-161.

Fatehullah A, Terakado Y, Sagiraju S, Tan TL, Sheng T, Tan SH, Murakami K, Swathi Y, Ang N, Rajarethnam R, Ming T, Tan P, Lee B, Barker N. A tumour-resident Lgr5+ stem-cell-like pool drives the establishment and progression of advanced gastric cancers. *Nat Cell Biol*. 2021 Dec 2. [Epub ahead of print]

Feng L, Romero-Garcia R, Suckling J, Tan J, Larbi A, Cheah I, Wong G, Tsakok M, Lanskey B, Lim D, Li J, Yang J, Goh B, Teck TGC, Ho A, Wang X, Yu JT, Zhang C, Tan C, Chua M, Li J, Totman JJ, Wong C, Loh M, Foo R, Tan CH, Goh LG, Mahendran R, Kennedy BK, Kua EH. Effects of choral singing versus health education on cognitive decline and aging: a randomized controlled trial. *Aging (Albany NY)*. 2020 Dec 18;12(24):24798-24816.

Fong SW, Yeo NK, Chan YH, Goh YS, Amrun SN, Ang N, Rajapakse MP, Lum J, Foo S, Lee CY, Carissimo G, Chee RS, Torres-Ruesta A, Tay MZ, Chang ZW, Poh CM, Young BE, Tambyah PA, Kalimuddin S, Leo YS, Lye DC, Lee B, Biswas S, Howland SW, Renia L, Ng LFP. Robust Virus-Specific Adaptive Immunity in COVID-19 Patients with SARS-CoV-2 Δ382 Variant Infection. *J Clin Immunol*. 2021 Oct 30:1-16.

Fulop T, Larbi A, Pawelec G, Khalil A, Cohen AA, Hirokawa K, Witkowski JM, Franceschi C. Immunology of Aging: the Birth of Inflammaging. *Clin Rev Allergy Immunol*. 2021 Sep 18:1-14.

Gallego C, Vétillard M, Calmette J, Roriz M, Marin-Esteban V, Evrard M, Aknin ML, Pionnier N, Lefrançois M, Mercier-Nomé F, Bertrand Y, Suarez F, Donadieu J, Ng LG, Balabanian K, Bachelerie F,

Schlecht-Louf G. CXCR4 signaling controls dendritic cell location and activation at steady-state and in inflammation. *Blood*. 2021 Jan 22:blood.2020006675.

Gensollen T, Lin X, Zhang T, Pyzik M, See P, Glickman JN, Ginhoux F, Waldor M, Salmi M, Rantakari P, Blumberg RS. Embryonic macrophages function during early life to determine invariant natural killer T cell levels at barrier surfaces. *Nat Immunol*. 2021 Jun;22(6):699-710.

Gertie JA, Zhang B, Liu EG, Hoyt LR, Yin X, Xu L, Long LL, Soldatenko A, Gowthaman U, Williams A, Eisenbarth SC. Oral anaphylaxis to peanut in a mouse model is associated with gut permeability but not with Tlr4 or Dock8 mutations. *J Allergy Clin Immunol*. 2021 May 26:S0091-6749(21)00820-4.

Gessain G, Blériot C, Ginhoux F. Non-genetic Heterogeneity of Macrophages in Diseases-A Medical Perspective. *Front Cell Dev Biol*. 2020 Dec 14;8:613116.

Ghoshdastider U, Rohatgi N, Mojtabavi Naeini M, Baruah P, Revkov E, Guo YA, Rizzetto S, Wong AML, Solai S, Nguyen TT, Yeong JPS, Iqbal J, Tan PH, Chowbay B, Dasgupta R, Skanderup AJ. Pan-cancer analysis of ligand-receptor crosstalk in the tumor microenvironment. *Cancer Res*. 2021 Feb 5:canres.2352.2020.

Ginhoux F, Mildner A, Gautier EL, Schlitzer A, Jakubzick C, Varol C, Bain C, Guermonprez P. Editorial: Monocyte Heterogeneity and Function. *Front Immunol*. 2021 Jan 7;11:626725.

Goh YS, Chavatte JM, Lim Jieling A, Lee B, Hor PX, Amrun SN, Lee CY, Chee RS, Wang B, Lee CY, Ngoh EZX, Wang CI, Young BE, Tambyah PA, Kalimuddin S, Pada S, Tan SY, Sun LJ, Chen MI, Leo YS, Lye DC, Ng LFP, Lin RTP, Renia L. Sensitive detection of total anti-Spike antibodies and isotype switching in asymptomatic and symptomatic individuals with COVID-19. *Cell Rep Med*. 2021 Feb 16;2(2):100193.

Goletti D, Petrone L, Manissero D, Bertoletti A, Rao S, Ndunda N, Sette A, Nikolayevskyy V. The potential clinical utility of measuring severe acute respiratory syndrome coronavirus 2-specific T-cell responses. *Clin Microbiol Infect*. 2021 Jul 10:S1198-743X(21)00378-5.

Goubet AG, Dubuisson A, Geraud A, Danlos FX, Terrisse S, Silva CAC, Drubay D, Touri L, Picard M, Mazzenga M, Silvin A, Dunsmore G, Haddad Y, Pizzato E, Ly P, Flament C, Melenotte C, Solary E, Fontenay M, Garcia G, Balleyguier C, Lassau N, Maeurer M, Grajeda-Iglesias C, Nirmalathasan N, Aprahamian F, Durand S, Kepp O, Ferrere G, Thelemaque C, Lahmar I, Fahrner JE, Meziani L, Ahmed-Belkacem A, Saïdani N, La Scola B, Raoult D, Gentile S, Cortaredona S, Ippolito G, Lelouvier B, Roulet A, Andre F, Barlesi F, Soria JC, Pradon C, Gallois E, Pommeret F, Colomba E, Ginhoux F, Kazandjian S, Elkrief A, Routy B, Miyara M, Gorochov G, Deutsch E, Albiges L, Stoclin A, Gachot B, Florin A, Merad M, Scotte F, Assaad S, Kroemer G, Blay JY, Marabelle A, Griscelli F, Zitvogel L, Derosa L. Prolonged SARS-CoV-2 RNA virus shedding and lymphopenia are hallmarks of COVID-19 in cancer patients with poor prognosis. *Cell Death Differ*. 2021 Jul 6:1-19.

Guan D, Wang Z, Huo J, Xu S, Lam KP. Bruton's tyrosine kinase regulates gut immune homeostasis through attenuating Th1 response. *Cell Death Dis*. 2021 Apr 30;12(5):431.

Hafezi M, Tan A, Bertoletti A. Personalized Armored TCR-Redirected T Cell Therapy for Liver/Organ Transplant with Recurrent Cancer. *Cells*. 2021 Jul 22;10(8):1861.

Hang L, Wang Z, Foo ASC, Goh GWY, Choong HC, Thundyil J, Xu S, Lam KP, Lim KL. Conditional disruption of AMP kinase in dopaminergic neurons promotes Parkinson's disease-associated phenotypes in vivo. *Neurobiol Dis*. 2021 Dec;161:105560.

Herath TDK, Saigo L, Schaller B, Larbi A, Teoh SH, Kirkpatrick CJ, Goh BT. In Vivo Efficacy of Neutrophil-Mediated Bone Regeneration Using a Rabbit Calvarial Defect Model. *Int J Mol Sci.* 2021 Dec 1;22(23):13016.

Hirano T, Honda T, Kanameishi S, Honda Y, Egawa G, Kitoh A, Nakajima S, Otsuka A, Nomura T, Dainichi T, Yaguchi T, Inozume T, Kataoka TR, Tamada K, Kabashima K. PD-L1 on mast cells suppresses effector CD8 + T-cell activation in the skin in murine contact hypersensitivity. *J Allergy Clin Immunol.* 2021 Feb 10:S0091-6749(21)00178-0.

Honda Keith Y, Kabashima K. Maternal IgE is transferred to fetuses with IgG and minimally sensitizes fetal/neonatal skin mast cells. *J Allergy Clin Immunol.* 2021 Jun 25:S0091-6749(21)00905-2.

Irie H, Kabashima K. The interaction between the immune system and the peripheral sensory nerves in pruritus. *Int Immunol.* 2021 Oct 6:dxab076.

Ishibashi M, Oiwa T, Nomura T, Yoshikawa Y, Niizeki H, Kabashima K. Role of Prostaglandin E-major Urinary Metabolite Levels in Identifying the Phenotype of Pachydermoperiostosis. *J Invest Dermatol.* 2021 Jun 2:S0022-202X(21)01314-2.

Jin H, Liu K, Tang J, Huang X, Wang H, Zhang Q, Zhu H, Li Y, Pu W, Zhao H, He L, Li Y, Zhang S, Zhang Z, Zhao Y, Qin Y, Pflanz S, Kasmi KEI, Zhang W, Liu Z, Ginhoux F, Ji Y, He B, Wang L, Zhou B. Genetic fate-mapping reveals surface accumulation but not deep organ invasion of pleural and peritoneal cavity macrophages following injury. *Nat Commun.* 2021 May 17;12(1):2863.

Kalimuddin S, Tham CY, Qui M, de Alwis R, Sim JX, Lim JM, Tan HC, Syenina A, Zhang SL, Le Bert N, Tan AT, Leong YS, Yee JX, Ong EZ, Ooi EE, Bertolotti A, Low JG. Early T cell and binding antibody responses are associated with Covid-19 RNA vaccine efficacy onset. *Med (N Y).* 2021 Apr 8. [Epub ahead of print]

Kamphuis JBJ, Worrall WPM, Stackowicz J, Mougel A, Mauré E, Conde E, Bruhns P, Guilleminault L, Gaudenzio N, Chen J, Gentek R, Reber LL. Comment on "Tumor-initiating cells establish an IL-33-TGF- β niche signaling loop to promote cancer progression". *Science.* 2021 Apr 9;372(6538):eabf2022.

Kandasamy K, Tan LG, B Johana N, Tan YW, Foo W, Yeo JSL, Ravikumar V, Ginhoux F, Choolani M, Chan JKY, Mattar CNZ. Maternal microchimerism and cell-mediated immune-modulation enhance engraftment following semi-allogenic intrauterine transplantation. *FASEB J.* 2021 Mar;35(3):e21413.

Komatsu-Fujii T, Murata T, Adachi E, Kaku Y, Wada T, Nakagawa N, Kosugi S, Uehara T, Kosaki K, Kataoka T, Egawa G, Dainichi T, Kabashima K. Sterile abscesses possibly stem from acantholytic folliculitis in comedonal Darier's disease: a case report. *Br J Dermatol.* 2021 Apr 29. [Epub ahead of print]

Komatsu-Fujii T, Nomura T, Kaku Y, Yamamura K, Yoshikawa Y, Endo Y, Honda T, Kabashima K. In vivo identification of tumor cells of the basal layer of the epidermis in an early lesion of extramammary Paget disease: A reflectance confocal microscopic analysis. *JAAD Case Rep.* 2021 Mar 4;11:1-2.

Kumar V, Ramnarayanan K, Sundar R, Padmanabhan N, Srivastava S, Koiwa M, Yasuda T, Koh V, Huang KK, Tay ST, Ho SWT, Tan ALK, Ishimoto T, Kim G, Shabbir A, Chen Q, Biyan Z, Xu S, Lam KP, Lum HYJ, Teh M, Yong WP, So JB, Tan P. Single-cell atlas of lineage states, tumor microenvironment and subtype-specific expression programs in gastric cancer. *Cancer Discov.* 2021 Oct 12:candisc.0683.2021.

Kvedaraite E, Hertwig L, Sinha I, Ponzetta A, Hed Myrberg I, Lourda M, Dzidic M, Akber M, Klingström J, Folkesson E, Muvva JR, Chen P, Gredmark-Russ S, Brighenti S, Norrby-Teglund A, Eriksson LI, Rooyackers O, Aleman S, Strålin K, Ljunggren HG, Ginhoux F, Björkström NK, Henter JL, Svensson M; Karolinska KI/K COVID-19 Study Group. Major alterations in the mononuclear phagocyte landscape associated with COVID-19 severity. *Proc Natl Acad Sci U S A*. 2021 Feb 9;118(6):e2018587118.

Lam JH, Khan AK, Cornell TA, Chia TW, Dress RJ, Yeow WWW, Mohd-Ismail NK, Venkataraman S, Ng KT, Tan YJ, Anderson DE, Ginhoux F, Nallani M. Polymersomes as Stable Nanocarriers for a Highly Immunogenic and Durable SARS-CoV-2 Spike Protein Subunit Vaccine. *ACS Nano*. 2021 Oct 7. [Epub ahead of print]

Lam RA, Tien TZ, Joseph CR, Lim JX, Thike AA, Iqbal J, Tan PH, Yeong JPS. Cancer-Testis Antigens in Triple-Negative Breast Cancer: Role and Potential Utility in Clinical Practice. *Cancers (Basel)*. 2021 Jul 31;13(15):3875.

Lam SM, Zhang C, Wang Z, Ni Z, Zhang S, Yang S, Huang X, Mo L, Li J, Lee B, Mei M, Huang L, Shi M, Xu Z, Meng FP, Cao WJ, Zhou MJ, Shi L, Chua GH, Li B, Cao J, Wang J, Bao S, Wang Y, Song JW, Zhang F, Wang FS, Shui G. A multi-omics investigation of the composition and function of extracellular vesicles along the temporal trajectory of COVID-19. *Nat Metab*. 2021 Jun 22. [Epub ahead of print]

Le Bert N, Clapham HE, Tan AT, Chia WN, Tham CYL, Lim JM, Kunasegaran K, Tan LWL, Dutertre CA, Shankar N, Lim JME, Sun LJ, Zahari M, Tun ZM, Kumar V, Lim BL, Lim SH, Chia A, Tan YJ, Tambyah PA, Kalimuddin S, Lye D, Low JGH, Wang LF, Wan WY, Hsu LY, Bertoletti A, Tam CC. Highly functional virus-specific cellular immune response in asymptomatic SARS-CoV-2 infection. *J Exp Med*. 2021 May 3;218(5):e20202617.

Lee CY, Amrun SN, Chee RS, Goh YS, Mak TM, Octavia S, Yeo NK, Chang ZW, Tay MZ, Torres-Ruesta A, Carissimo G, Poh CM, Fong SW, Bei W, Lee S, Young BE, Tan SY, Leo YS, Lye DC, Lin RT, Maurer-Stroh S, Lee B, Wang CI, Renia L, Ng LF. Human neutralising antibodies elicited by SARS-CoV-2 non-D614G variants offer cross-protection against the SARS-CoV-2 D614G variant. *Clin Transl Immunology*. 2021 Feb 22;10(2):e1241.

Lee HY, Celhar T, Fairhurst AM. Assessing Lupus-Like Disease in Murine Model Systems. *Curr Protoc*. 2021 Nov;1(11):e272.

Lee SWL, Rogosic R, Venturi C, Raimondi MT, Pavesi A, Adriani G. A human Neurovascular Unit On-a-Chip. *Methods Mol Biol*. 2022;2373:107-119.

Lee WC, Russell B, Lee B, Chu CS, Phyto AP, Sriprawat K, Lau YL, Nosten F, Rénia L. Plasmodium falciparum rosetting protects schizonts against artemisinin. *EBioMedicine*. 2021 Nov 5;73:103680.

Lee WS, Ye Z, Cheung AMS, Goh YPS, Oh HLJ, Rajarethnam R, Yeo SP, Soh MK, Chan EHL, Tan LK, Tan SY, Chuah C, Chng WJ, Connolly JE, Wang CI. Effective killing of acute myeloid leukemia by TIM-3 targeted chimeric antigen receptor T cells. *Mol Cancer Ther*. 2021 Jun 22:molcanther.0155.2020.

Leong YW, Lee EQH, Rénia L, Malleret B. Rodent Malaria Erythrocyte Preference Assessment by an Ex Vivo Tropism Assay. *Front Cell Infect Microbiol*. 2021 Jul 12;11:680136.

Li CF, Chan TC, Wang CI, Fang FM, Lin PC, Yu SC, Huang HY. RSF1 requires CEBP/β and hSNF2H to promote IL-1β-mediated angiogenesis: the clinical and therapeutic relevance of RSF1 overexpression and amplification in myxofibrosarcomas. *Angiogenesis*. 2021 Jan 26. [Epub ahead of print]

Li M, Zhang X, Ang KS, Ling J, Sethi R, Lee NYS, Ginhoux F, Chen J. DISCO: a database of Deeply Integrated human Single-Cell Omics data. *Nucleic Acids Res.* 2021 Nov 17:gkab1020.

Lim J, Puan KJ, Wang LW, Teng KWW, Loh CY, Tan KP, Carissimo G, Chan YH, Poh CM, Lee CY, Fong SW, Yeo NK, Chee RS, Amrun SN, Chang ZW, Tay MZ, Torres-Ruesta A, Leo Fernandez N, How W, Andiappan AK, Lee W, Duan K, Tan SY, Yan G, Kalimuddin S, Lye DC, Leo YS, Ong SWX, Young BE, Renia L, Ng LFP, Lee B, Rötzschke O. Data-Driven Analysis of COVID-19 Reveals Persistent Immune Abnormalities in Convalescent Severe Individuals. *Front Immunol.* 2021 Nov 19;12:710217.

Lim J, Sari-Ak D, Bagga T. Siglecs as Therapeutic Targets in Cancer. *Biology (Basel)*. 2021 Nov 13;10(11):1178.

Lim ZR, Vassilev S, Leong YW, Hang JW, Rénia L, Malleret B, Oh SK. Industrially Compatible Transfusible iPSC-Derived RBCs: Progress, Challenges and Prospective Solutions. *Int J Mol Sci.* 2021 Sep 10;22(18):9808.

Loh JT, Lee KG, Lee AP, Teo JKH, Lim HL, Kim SS, Tan AH, Lam KP. DOK3 maintains intestinal homeostasis by suppressing JAK2/STAT3 signaling and S100a8/9 production in neutrophils. *Cell Death Dis.* 2021 Nov 6;12(11):1054.

Low JM, Gu Y, Ng MSF, Amin Z, Lee LY, Ng YPM, Shunmuganathan BD, Niu Y, Gupta R, Tambyah PA, MacAry PA, Wang LW, Zhong Y. Codominant IgG and IgA expression with minimal vaccine mRNA in milk of BNT162b2 vaccinees. *NPJ Vaccines*. 2021 Aug 19;6(1):105.

Lu Y, Gwee X, Chua DQL, Tan CTY, Yap KB, Larbi A, Ng TP. Physiological Dysregulation, Frailty, and Impacts on Adverse Health and Functional Outcomes. *Front Med (Lausanne)*. 2021 Oct 22;8:751022.

Lu Y, Niti M, Yap KB, Tan CTY, Nyunt MSZ, Feng L, Tan BY, Chan G, Khoo SA, Chan SM, Yap P, Larbi A, Ng TP. Effects of multi-domain lifestyle interventions on sarcopenia measures and blood biomarkers: secondary analysis of a randomized controlled trial of community-dwelling pre-frail and frail older adults. *Aging (Albany NY)*. 2021 Mar 19;13(7):9330-9347.

Lu Y, Tan CTY, Gwee X, Yap KB, Fulop T, Pan F, Larbi A, Ng TP. Pathogen Burden, Blood Biomarkers and Functional Ageing in Community-Dwelling Older Adults. *J Gerontol A Biol Sci Med Sci.* 2021 Feb 26:glab057.

Malleret B, El Sahili A, Tay MZ, Carissimo G, Ong ASM, Novera W, Lin J, Suwanarusk R, Kosaisavee V, Chu TTT, Sinha A, Howland SW, Fan Y, Gruszczak J, Tham WH, Colin Y, Maurer-Stroh S, Snounou G, Ng LFP, Chan JKY, Chacko AM, Lescar J, Chandramohanadas R, Nosten F, Russell B, Rénia L. Plasmodium vivax binds host CD98hc (SLC3A2) to enter immature red blood cells. *Nat Microbiol.* 2021 Aug;6(8):991-999.

Meng F, Zhao J, Tan AT, Hu W, Wang SY, Jin J, Wu J, Li Y, Shi L, Fu JL, Yu S, Shen Y, Liu L, Luan J, Shi M, Xie Y, Zhou CB, Wong RW, Lu-En W, Koh S, Bertoletti A, Wang T, Zhang JY, Wang FS. Immunotherapy of HBV-related advanced hepatocellular carcinoma with short-term HBV-specific TCR expressed T cells: results of dose escalation, phase I trial. *Hepatol Int.* 2021 Dec;15(6):1402-1412.

Miow QH, Vallejo AF, Wang Y, Hong JM, Bai C, Teo FS, Wang AD, Loh HR, Tan TZ, Ding Y, She HW, Gan SH, Paton NI, Lum J, Tay A, Chee CB, Tambyah PA, Polak ME, Wang YT, Singhal A, Elkington P, Friedland JS, Ong CW. Doxycycline host-directed therapy in human pulmonary tuberculosis. *J Clin Invest.* 2021 Jun 15:141895.

Mishra A, Lai GC, Yao LJ, Aung TT, Shental N, Rotter-Maskowitz A, Shepherdson E, Singh GSN, Pai R, Shanti A, Wong RMM, Lee A, Khyriem C, Dutertre CA, Chakarov S, Srinivasan KG, Shadan NB, Zhang XM, Khalilnezhad S, Cottier F, Tan ASM, Low G, Chen P, Fan Y, Hor PX, Lee AKM, Choolani M, Vermijlen D, Sharma A, Fuks G, Straussman R, Pavelka N, Malleret B, McGovern N, Albani S, Chan JKY, Ginhoux F. Microbial exposure during early human development primes fetal immune cells. *Cell*. 2021 May 25:S0092-8674(21)00574-2.

Mishra A, Yao LJ, Wasser M, Khyriem C, Malleret B, McGovern N, Albani S, Chan JKY, Ginhoux F. Reply to Over-celling fetal microbial exposure. *Cell*. 2021 Nov 24;184(24):5842-5844.

Mollica H, Teo YJ, Tan ASM, Tan DZM, Decuzzi P, Pavesi A, Adriani G. A 3D pancreatic tumor model to study T cell infiltration. *Biomater Sci*. 2021 Nov 9;9(22):7420-7431.

Mulder K, Patel AA, Kong WT, Plot C, Halitzki E, Dunsmore G, Khalilnezhad S, Irac SE, Dubuisson A, Chevrier M, Zhang XM, Tam JKC, Lim TKH, Wong RMM, Pai R, Khalil AIS, Chow PKH, Wu SZ, Al-Eryani G, Roden D, Swarbrick A, Chan JKY, Albani S, Derosa L, Zitvogel L, Sharma A, Chen J, Silvin A, Bertoletti A, Blériot C, Dutertre CA, Ginhoux F. Cross-tissue single-cell landscape of human monocytes and macrophages in health and disease. *Immunity*. 2021 Aug 10;54(8):1883-1900.e5.

Nakamizo S, Dutertre CA, Khalilnezhad A, Zhang XM, Lim S, Lum J, Koh G, Foong C, Yong PJA, Tan KJ, Sato R, Tomari K, Yvan-Charvet L, He H, Guttman-Yassky E, Malleret B, Shibuya R, Iwata M, Janelia B, Goto T, Lucinda TS, Tang MBY, Theng C, Julia V, Hacini-Rachinel F, Kabashima K, Ginhoux F. Single-cell analysis of human skin identifies CD14+ type 3 dendritic cells co-producing IL1B and IL23A in psoriasis. *J Exp Med*. 2021 Sep 6;218(9):e20202345.

Nakamizo S, Honda T, Sato T, Mamun MA, Chow Z, Duan K, Lum J, Tan KJ, Tomari K, Sato R, Kitoh A, Tay ASL, Common JEA, Ng LG, Setou M, Ginhoux F, Kabashima K. High-fat diet induces follicular hyperkeratinization and predisposes to develop neutrophilic folliculitis in mice. *J Allergy Clin Immunol*. 2021 Mar 10:S0091-6749(21)00363-8.

Narayanan S, Au VB, Khakpoor A, Yan C, Ahl PJ, Kaliaperumal N, Lee B, Xiang WW, Wang J, Lee C, Tay A, Lim SG, Connolly JE. Bayesian analysis of cytokines and chemokine identifies immune pathways of HBsAg loss during chronic hepatitis B treatment. *Sci Rep*. 2021 Apr 2;11(1):7455.

Ng MSF, Tan L, Wang Q, Mackay CR, Ng LG. Neutrophils in cancer-unresolved questions. *Sci China Life Sci*. 2021 Feb 24. [Epub ahead of print]

Ng TKS, Tagawa A, Ho RC, Larbi A, Kua EH, Mahendran R, Carollo JJ, Heyn PC. Commonalities in biomarkers and phenotypes between mild cognitive impairment and cerebral palsy: a pilot exploratory study. *Aging (Albany NY)*. 2021 Jan 26;13(2):1773-1816.

Nguyen PHD, Ma S, Phua CZJ, Kaya NA, Lai HLH, Lim CJ, Lim JQ, Wasser M, Lai L, Tam WL, Lim TKH, Wan WK, Loh T, Leow WQ, Pang YH, Chan CY, Lee SY, Cheow PC, Toh HC, Ginhoux F, Iyer S, Kow AWC, Young Dan Y, Chung A, Goh BKP, Albani S, Chow PKH, Zhai W, Chew V. Intratumoural immune heterogeneity as a hallmark of tumour evolution and progression in hepatocellular carcinoma. *Nat Commun*. 2021 Jan 11;12(1):227.

Nomura T, Sumi E, Egawa G, Nakajima S, Toichi E, Inoue N, Shibuya M, Okamoto N, Mitsuishi T, Uozumi R, Tada H, Nakagawa T, Kusuba N, Okuno A, Shimizuhira C, Ishikawa M, Tanaka S, Hagiwara M, Kabashima K. Safety and Efficacy of FIT039 for Verruca Vulgaris: A Placebo-Controlled, Phase I/II Randomized Controlled Trial. *JID Innov*. 2021 May 20;1(3):100026.

Oon ML, Lim JQ, Lee B, Leong SM, Soon GS, Wong ZW, Lim EH, Li Z, Yeoh AEJ, Chen S, Ban KHK, Chung TH, Tan SY, Chuang SS, Kato S, Nakamura S, Takahashi E, Ho YH, Khouri JD, Au-Yeung RKH, Cheng CL, Lim ST, Chng WJ, Tripodo C, Rotzschke O, Ong CK, Ng SB. T-Cell Lymphoma Clonality by Copy Number Variation Analysis of T-Cell Receptor Genes. *Cancers (Basel)*. 2021 Jan 19;13(2):340.

Otsuka M, Egawa G, Dainichi T, Okuno T, Ishida Y, Chow Z, Asahina R, Miyake T, Nomura T, Kitoh A, Yokomizo T, Kabashima K. Cutaneous liver X receptor activation prevents the formation of imiquimod-induced psoriatic dermatitis. *J Invest Dermatol*. 2021 Sep 20:S0022-202X(21)02215-6.

Pan J, Tang J, Caniza M, Heraud JM, Koay E, Lee HK, Lee CK, Li Y, Nava Ruiz A, Santillan-Salas CF, Marr LC. Correlating indoor and outdoor temperature and humidity in a sample of buildings in tropical climates. *Indoor Air*. 2021 Jun 17.

Pan S, Zhang Y, Natalia A, Lim CZJ, Ho NRY, Chowbay B, Loh TP, Tam JKC, Shao H. Extracellular vesicle drug occupancy enables real-time monitoring of targeted cancer therapy. *Nat Nanotechnol*. 2021 Mar 8. [Epub ahead of print]

Patel AA, Ginhoux F, Yona S. Monocytes, Macrophages, Dendritic Cells and Neutrophils: an update on lifespan kinetics in health and disease. *Immunology*. 2021 Feb 8. [Epub ahead of print]

Penny HL, Sieow JL, Gun SY, Lau MC, Lee B, Tan J, Phua C, Toh F, Nga Y, Yeap WH, Janela B, Kumar D, Chen H, Yeong J, Kenkel JA, Pang A, Lim D, Toh HC, Kim TKH, Johnson CI, Khameneh HJ, Mortellaro A, Engleman EG, Rotzschke O, Ginhoux F, Abastado JP, Chen J, Wong SC. Targeting Glycolysis in Macrophages Confers Protection Against Pancreatic Ductal Adenocarcinoma. *Int J Mol Sci*. 2021 Jun 14;22(12):6350.

Pisu D, Huang L, Narang V, Theriault M, Lê-Bury G, Lee B, Lakudzala AE, Mzinza DT, Mhango DV, Mitini-Nkhoma SC, Jambo KC, Singhal A, Mwandumba HC, Russell DG. Single cell analysis of *M. tuberculosis* phenotype and macrophage lineages in the infected lung. *J Exp Med*. 2021 Sep 6;218(9):e20210615.

Puan KJ, San Luis B, Yusof N, Kumar D, Andiappan AK, Lee W, Cajic S, Vuckovic D, Chan J, Döllner T, Hou HW, Jiang Y, Tian C; 23andMe Research Team, Rapp E, Poidinger M, Wang Y, Soranzo N, Lee B, Rötzsche O. FUT6 deficiency compromises basophil function by selectively abrogating their sialyl-Lewis x expression. *Commun Biol*. 2021 Jul 2;4(1):832.

Reales-Calderon JA, Tso GHW, Tan ASM, Hor PX, Böhme J, Teng KWW, Newell EW, Singhal A, Pavelka N. Gut-Evolved *Candida albicans* Induces Metabolic Changes in Neutrophils. *Front Cell Infect Microbiol*. 2021 Nov 22;11:743735.

Rouers A, Appanna R, Chevrier M, Lum J, Lau MC, Tan L, Loy T, Tay A, Sethi R, Sathiakumar D, Kaur K, Böhme J, Leo YS, Renia L, Howland SW, Singhal A, Chen J, Fink K. CD27hiCD38hi plasmablasts are activated B cells of mixed origin with distinct function. *iScience*. 2021 Apr 29;24(5):102482.

Rouers A, Chng MHY, Lee B, Rajapakse MP, Kaur K, Toh YX, Sathiakumar D, Loy T, Thein TL, Lim VWX, Singhal A, Yeo TW, Leo YS, Vora KA, Casimiro D, Lim B, Tucker-Kellogg L, Rivino L, Newell EW, Fink K. Immune cell phenotypes associated with disease severity and long-term neutralizing antibody titers after natural dengue virus infection. *Cell Rep Med*. 2021 May 18;2(5):100278.

Shen M, Yeoh XLA, Wang DY, Tey HL, Ren EC, Oon HH. Genetic variations in gamma-secretase and PSTPIP1 in hidradenitis suppurativa in Singaporean Chinese. *J Eur Acad Dermatol Venereol*. 2021 Jan 18. [Epub ahead of print]

Shi H, He H, Cui L, Kvedaraite E, Bian Z, Huang T, Lee C, Li ZG, He J, Gong Y, Li Z, Zhou J, Zeng Y, Li X, Ni Y, Bai Z, Liu C, Li N, Ma H, Wang D, Lan Y, Ginhoux F, Zhang R, Liu B. Transcriptomic Landscape of Circulating Mononuclear Phagocytes in Langerhans Cell Histiocytosis at Single-cell Level. *Blood*. 2021 Jun 16:blood.2020009064.

Shibuya R, Ishida Y, Hanakawa S, Kataoka TR, Takeuchi Y, Murata T, Akagi A, Chow Z, Kogame T, Nakamizo S, Nakajima S, Egawa G, Nomura T, Kambe N, Kitoh A, Kabashima K. CCL2-CCR2 signaling in the skin drives surfactant-induced irritant contact dermatitis via IL-1 β -mediated neutrophil accumulation. *J Invest Dermatol*. 2021 Sep 21:S0022-202X(21)02212-0.

Shibuya R, Takimoto-Ito R, Kambe N, Kabashima K. A New Era with the Development of Cytokine-Based Therapy for Pruritus. *J Invest Dermatol*. 2021 Nov 17:S0022-202X(21)02346-0.

Shih C, Tan L, Li JLY, Tan Y, Cheng H, Ng LG. Intravital Imaging of Bone Marrow Microenvironment in the Mouse Calvaria and Tibia. *Methods Mol Biol*. 2021;2308:177-202.

Shima K, Nomura T, Yamada Y, Usui S, Kobayashi T, Kabashima K. Maculopapular-type drug eruptions caused by apalutamide: case series and a review of the literature. *J Eur Acad Dermatol Venereol*. 2021 Sep 12. [Epub ahead of print]

Silva-Filho JL, de Oliveira LG, Monteiro L, Parise PL, Zanluqui NG, Polonio CM, de Freitas CL, Toledo-Teixeira DA, de Souza WM, Bittencourt N, Amorim MR, Forato J, Muraro SP, de Souza GF, Martini MC, Bispo-Dos-Santos K, Vieira A, Judice CC, Pastore GM, Amaral E, Passini Junior R, Mayer-Milanez HMBP, Ribeiro-do-Valle CC, Calil R, Renato Bennini Junior J, Lajos GJ, Altemani A, Nolasco da Silva MT, Carolina Coan A, Francisca Colella-Santos M, von Zuben APB, Vinolo MAR, Arns CW, Catharino RR, Costa ML, Angerami RN, Freitas ARR, Resende MR, Garcia MT, Luiza Moretti M, Renia L, Ng LFP, Rothlin CV, Costa FTM, Schatzmann Peron JP, Proença-Modena JL. Gas6 drives Zika virus-induced neurological complications in humans and congenital syndrome in immunocompetent mice. *Brain Behav Immun*. 2021 Aug 11:S0889-1591(21)00298-1.

Silverberg JI, Simpson EL, Wollenberg A, Bissonnette R, Kabashima K, DeLozier AM, Sun L, Cardillo T, Nunes FP, Reich K. Long-term Efficacy of Baricitinib in Adults With Moderate to Severe Atopic Dermatitis Who Were Treatment Responders or Partial Responders: An Extension Study of 2 Randomized Clinical Trials. *JAMA Dermatol*. 2021 May 12. [Epub ahead of print]

Sirés A, Turch-Anguera M, Bogdanov P, Sampedro J, Ramos H, Ruíz Lasa A, Huo J, Xu S, Lam KP, López-Soriano J, Pérez-García MJ, Hernández C, Simó R, Solé M, Comella JX. Faim knockout leads to gliosis and late-onset neurodegeneration of photoreceptors in the mouse retina. *J Neurosci Res*. 2021 Oct 28. [Epub ahead of print]

Silvin A, Ginhoux F. Expanding cell-to-cell interactions. *Science*. 2021 Apr 23;372(6540):342-343.

Slob EMA, Richards LB, Vijverberg SJH, Longo C, Koppelman GH, Pijnenburg MWH, Bel EHD, Neerincx AH, Herrera Luis E, Perez-Garcia J, Chew FT, Sio YY, Andiappan AK, Turner SW, Mukhopadhyay S, Palmer CNA, Hawcutt D, Jorgensen AL, Burchard EG, Hernandez-Pacheco N, Pino-Yanes M, Maitland-van der Zee AH. Genome-wide association studies of exacerbations in children using long-acting beta2-agonists. *Pediatr Allergy Immunol*. 2021 Mar 11. [Epub ahead of print]

Smulan LJ, Martinez N, Kiritsy MC, Kativhu C, Cavallo K, Sassetti CM, Singhal A, Remold HG, Kornfeld H. Sirtuin 3 Downregulation in Mycobacterium tuberculosis-Infected Macrophages Reprograms Mitochondrial Metabolism and Promotes Cell Death. *mBio*. 2021 Feb 2;12(1):e03140-20.

Suteja L, Yeong J, Tan AC, Toy W, Tan DSW. Improving Precision and Implementation of Immuno-Oncology Biomarkers. *J Thorac Oncol*. 2021 Oct;16(10):e91-e93.

Swadling L, Diniz MO, Schmidt NM, Amin OE, Chandran A, Shaw E, Pade C, Gibbons JM, Le Bert N, Tan AT, Jeffery-Smith A, Tan CCS, Tham CYL, Kucykwicz S, Aidoo-Micah G, Rosenheim J, Davies J, Johnson M, Jensen MP, Joy G, McCoy LE, Valdes AM, Chain BM, Goldblatt D, Altmann DM, Boyton RJ, Manisty C, Treibel TA, Moon JC; COVIDsortium investigators, Dorp LV, Balloux F, McKnight Á, Noursadeghi M, Bertoletti A, Maini MK. Pre-existing polymerase-specific T cells expand in abortive seronegative SARS-CoV-2. *Nature*. 2021 Nov 10. [Epub ahead of print]

Takata K, Ginhoux F, Shimohama S. Roles of microglia in alzheimer's disease and impact of new findings on microglial heterogeneity as a target for therapeutic intervention. *Biochem Pharmacol*. 2021 Sep 1:114754.

Talwar S, Pandey M, Sharma C, Kutum R, Lum J, Carbajo D, Goel R, Poidinger M, Dash D, Singhal A, Pandey AK. Role of VapBC12 Toxin-Antitoxin Locus in Cholesterol-Induced Mycobacterial Persistence. *mSystems*. 2020 Dec 15;5(6):e00855-20.

Tan AT, Le Bert N, Bertoletti A. Difference in sensitivity between SARS-CoV-2-specific T cell assays in patients with underlying conditions. Reply. *J Clin Invest*. 2021 Dec 15;131(24):e155701.

Tan AT, Lim JM, Le Bert N, Kunasegaran K, Chia A, Qui MD, Tan N, Chia WN, de Alwis R, Ying D, Sim JX, Ooi EE, Wang LF, Chen MI, Young BE, Hsu LY, Low JG, Lye DC, Bertoletti A. Rapid measurement of SARS-CoV-2 spike T cells in whole blood from vaccinated and naturally infected individuals. *J Clin Invest*. 2021 Sep 1;131(17):e152379.

Tan AT, Linster M, Tan CW, Le Bert N, Chia WN, Kunasegaran K, Zhuang Y, Tham CYL, Chia A, Smith GJD, Young B, Kalimuddin S, Low JGH, Lye D, Wang LF, Bertoletti A. Early induction of functional SARS-CoV-2-specific T cells associates with rapid viral clearance and mild disease in COVID-19 patients. *Cell Rep*. 2021 Feb 9;34(6):108728.

Tan AT, Meng F, Jin J, Zhang JY, Wang SY, Shi L, Shi M, Li Y, Xie Y, Liu LM, Zhou CB, Chua A, Ho ZZ, Luan J, Zhao J, Li J, Wai LE, Koh S, Wang T, Bertoletti A, Wang FS. Immunological alterations after immunotherapy with short lived HBV-TCR T cells associates with long-term treatment response in HBV-HCC. *Hepatol Commun*. 2021 Dec 21. [Epub ahead of print]

Tan K, Tint MT, Michael N, Yap F, Chong YS, Tan KH, Godfrey KM, Larbi A, Lee YS, Chan SY, Fortier MV, Eriksson JG, Karnani N. Determinants of cord blood adipokines and association with neonatal abdominal adipose tissue distribution. *Int J Obes (Lond)*. 2021 Dec 4. [Epub ahead of print]

Tan SH, Phuah P, Tan LT, Yada S, Goh J, Tomaz LB, Chua M, Wong E, Lee B, Barker N. A constant pool of Lgr5 + intestinal stem cells is required for intestinal homeostasis. *Cell Rep*. 2021 Jan 26;34(4):108633.

Tan Y, Tey HL, Chong SZ, Ng LG. Skin-ny deeping: Uncovering immune cell behavior and function through imaging techniques. *Immunol Rev*. 2021 Dec 2. [Epub ahead of print]

Tasnim F, Huang X, Lee CZW, Ginhoux F, Yu H. Recent Advances in Models of Immune-Mediated Drug-Induced Liver Injury. *Front Toxicol.* 2021 Apr 27. [Epub ahead of print]

Toh X, Wang Y, Rajapakse MP, Lee B, Songkasupa T, Suwankitwat N, Kamlangdee A, Fernandez CJ, Huangfu T. Use of Nanopore Sequencing to Characterize African Horse Sickness Virus (AHSV) from the African Horse Sickness Outbreak in Thailand in 2020. *Transbound Emerg Dis.* 2021 Mar 7. [Epub ahead of print]

Tuzlak S, Dejean AS, Iannacone M, Quintana FJ, Waisman A, Ginhoux F, Korn T, Becher B. Repositioning TH cell polarization from single cytokines to complex help. *Nat Immunol.* 2021 Sep 20. [Epub ahead of print]

Verma AK, Zheng J, Mack M, Ginhoux F, Perlman S. Differential Effects of Prostaglandin D2 Signaling on Macrophages and Microglia in Murine Coronavirus Encephalomyelitis. *mBio.* 2021 Sep 7:e0196921.

Võsa U, Claringbould A, Westra HJ, Bonder MJ, Deelen P, Zeng B, Kirsten H, Saha A, Kreuzhuber R, Yazar S, Brugge H, Oelen R, de Vries DH, van der Wijst MGP, Kasela S, Pervjakova N, Alves I, Favé MJ, Agbessi M, Christiansen MW, Jansen R, Seppälä I, Tong L, Teumer A, Schramm K, Hemani G, Verlouw J, Yaghootkar H, Sönmez Flitman R, Brown A, Kukushkina V, Kalnapanakis A, Rüeger S, Porcu E, Kronberg J, Kettunen J, Lee B, Zhang F, Qi T, Hernandez JA, Arindrarto W, Beutner F; BIOS Consortium; i2QTL Consortium, Dmitrieva J, Elansary M, Fairfax BP, Georges M, Heijmans BT, Hewitt AW, Kähönen M, Kim Y, Knight JC, Kovacs P, Krohn K, Li S, Loeffler M, Marigorta UM, Mei H, Momozawa Y, Müller-Nurasyid M, Nauck M, Nivard MG, Penninx BWJH, Pritchard JK, Raitakari OT, Rotzschke O, Slagboom EP, Stehouwer CDA, Stumvoll M, Sullivan P, 't Hoen PAC, Thiery J, Tönjes A, van Dongen J, van Iterson M, Veldink JH, Völker U, Warmerdam R, Wijmenga C, Swertz M, Andiappan A, Montgomery GW, Ripatti S, Perola M, Kutalik Z, Dermitzakis E, Bergmann S, Frayling T, van Meurs J, Prokisch H, Ahsan H, Pierce BL, Lehtimäki T, Boomsma DI, Psaty BM, Gharib SA, Awadalla P, Milani L, Ouwehand WH, Downes K, Stegle O, Battle A, Visscher PM, Yang J, Scholz M, Powell J, Gibson G, Esko T, Franke L. Large-scale cis- and trans-eQTL analyses identify thousands of genetic loci and polygenic scores that regulate blood gene expression. *Nat Genet.* 2021 Sep;53(9):1300-1310.

Wang B, Goh YS, Fong SW, Young BE, Ngoh EZX, Chavatte JM, Salleh SNM, Yeo NK, Amrun SN, Hor PX, Loh CY, Lee CY, Chan YH, Chang ZW, Tay MZ, Rouers A, Torres-Ruesta A, Carissimo G, Soh MK, Lee RTC, Xu Y, Pada S, Lin RTP, Leo YS, Lye DC, Maurer-Stroh S, Ng LFP, Renia L, Wang CI. Resistance of SARS-CoV-2 Delta variant to neutralization by BNT162b2-elicited antibodies in Asians. *Lancet Reg Health West Pac.* 2021 Oct;15:100276.

Wang B, Goh YS, Prince T, Ngoh EZX, Salleh SNM, Hor PX, Loh CY, Fong SW, Hartley C, Tan SY, Young BE, Leo YS, Lye DC, Maurer-Stroh S, Ng LFP, Hiscox JA, Renia L, Wang CI. Resistance of SARS-CoV-2 variants to neutralization by convalescent plasma from early COVID-19 outbreak in Singapore. *NPJ Vaccines.* 2021 Oct 25;6(1):125.

Wang CG, Li Z, Liu S, Ng CT, Marzuki M, Jeslyn Wong PS, Tan B, Lee A, Hui Lim CF, Bifani P, Fang Z, Ching Wong JC, Setoh YX, Yang YY, Mun CH, Fiona Phua SZ, Lim WQ, Lin L, Cook AR, Tanoto H, Ng LC, Singhal A, Leong YW, Loh XJ. N95 respirator decontamination: a study in reusability. *Mater Today Adv.* 2021 Sep;11:100148.

Wang M, Yang Y, Cansever D, Wang Y, Kantores C, Messiaen S, Moison D, Livera G, Chakarov S, Weinberger T, Stremmel C, Fijak M, Klein B, Pleuger C, Lian Z, Ma W, Liu Q, Klee K, Händler K, Ulas T,

Schlitzer A, Schultze JL, Becher B, Greter M, Liu Z, Ginhoux F, Epelman S, Schulz C, Meinhardt A, Bhushan S. Two populations of self-maintaining monocyte-independent macrophages exist in adult epididymis and testis. *Proc Natl Acad Sci U S A*. 2021 Jan 5;118(1):e2013686117.

Wang S, Li X, Chong SY, Wang X, Chen H, Chen C, Ng LG, Wang JW, Liu B. In Vivo Three-Photon Imaging of Lipids using Ultrabright Fluorogens with Aggregation-Induced Emission. *Adv Mater*. 2021 Feb 11:e2007490.

Wang X, Lin X, Zheng Z, Lu B, Wang J, Tan AH, Zhao M, Loh JT, Ng SW, Chen Q, Xiao F, Huang E, Ko KH, Huang Z, Li J, Kok KH, Lu G, Liu X, Lam KP, Liu W, Zhang Y, Yuen KY, Mak TW, Lu L. Host-derived lipids orchestrate pulmonary $\gamma\delta$ T cell response to provide early protection against influenza virus infection. *Nat Commun*. 2021 Mar 26;12(1):1914.

Wang X, Wen Y, Xie X, Liu Y, Tan X, Cai Q, Zhang Y, Cheng L, Xu G, Zhang S, Wang H, Wei L, Tang X, Qi F, Zhao J, Yuan J, Liu L, Zhu P, Ginhoux F, Zhang S, Cheng T, Zhang Z. Dysregulated hematopoiesis in bone marrow marks severe COVID-19. *Cell Discov*. 2021 Aug 4;7(1):60.

Wang Z, Guan D, Huo J, Biswas SK, Huang Y, Yang Y, Xu S, Lam KP. IL-10 Enhances Human Natural Killer Cell Effector Functions via Metabolic Reprogramming Regulated by mTORC1 Signaling. *Front Immunol*. 2021 Feb 23;12:619195.

Windpessl M, Bruchfeld A, Anders HJ, Kramer H, Waldman M, Renia L, Ng LFP, Xing Z, Kronbichler A. COVID-19 vaccines and kidney disease. *Nat Rev Nephrol*. 2021 Feb 8:1-3.

Wu N, Sun H, Zhao X, Zhang Y, Tan J, Qi Y, Wang Q, Ng M, Liu Z, He L, Niu X, Chen L, Liu Z, Li HB, Zeng YA, Roulis M, Liu D, Cheng J, Zhou B, Ng LG, Zou D, Ye Y, Flavell RA, Ginhoux F, Su B. MAP3K2-regulated intestinal stromal cells define a distinct stem cell niche. *Nature*. 2021 Mar 3. [Epub ahead of print]

Wu SZ, Al-Eryani G, Roden DL, Junankar S, Harvey K, Andersson A, Thennavan A, Wang C, Torpy JR, Bartonicek N, Wang T, Larsson L, Kaczorowski D, Weisenfeld NI, Uytingco CR, Chew JG, Bent ZW, Chan CL, Gnanasambandapillai V, Dutertre CA, Gluch L, Hui MN, Beith J, Parker A, Robbins E, Segara D, Cooper C, Mak C, Chan B, Warrier S, Ginhoux F, Millar E, Powell JE, Williams SR, Liu XS, O'Toole S, Lim E, Lundeberg J, Perou CM, Swarbrick A. A single-cell and spatially resolved atlas of human breast cancers. *Nat Genet*. 2021 Sep;53(9):1334-1347.

Yamamoto Y, Otsuka A, Ishida Y, San Wong L, Seidel JA, Nonomura Y, Nakashima C, Nakajima S, Kitoh A, Nomura T, Dainichi T, Honda T, Amano W, Konishi N, Hayashi M, Matsushita M, Kabashima K. Pituitary adenylate cyclase-activating polypeptide promotes cutaneous dendritic cell functions in contact hypersensitivity. *J Allergy Clin Immunol*. 2021 Feb 17;S0091-6749(21)00218-9.

Yeo JG, Leong JY, Tay SH, Nadua KD, Anderson DE, Lim AJM, Ng XW, Poh SL, Guo D, Yaung KN, Kumar P, Wasser M, Hazirah SN, Sutamam N, Chua CJH, Qui M, Foo R, Gamage AM, Yeo KT, Ramakrishna L, Arkachaisri T, Young BE, Lye DC, Wang LF, Chong CY, Tan NWH, Li J, Kam KQ, Ginhoux F, Thoon KC, Chan JKY, Yung CF, Albani S. A Virus-Specific Immune Rheostat in the Immunome of Patients Recovering From Mild COVID-19. *Front Immunol*. 2021 May 25;12:674279.

Yeong J, Suteja L, Simoni Y, Lau KW, Tan AC, Li HH, Lim S, Loh JH, Yu Ting FW, Nerurkar SN, Takano A, Tan EH, Hon Lim TK, Newell EW, Tan DSW. Intra-tumoral CD39+CD8+ T cells predict response to PD-1/PD-L1 blockade in patients with NSCLC. *J Thorac Oncol*. 2021 May 8:S1556-0864(21)02155-9.

Young BE, Wei WE, Fong SW, Mak TM, Anderson DE, Chan YH, Pung R, Heng CS, Ang LW, Zheng AKE, Lee B, Kalimuddin S, Pada S, Tambyah PA, Parthasarathy P, Tan SY, Sun L, Smith GJ, Lin RTP, Leo YS, Renia L, Wang LF, Ng LF, Maurer-Stroh S, Lye DC, Lee VJ. Association of SARS-CoV-2 clades with clinical, inflammatory and virologic outcomes: An observational study. *EBioMedicine*. 2021 Apr 8:103319.

Zelante T, Choera T, Beauvais A, Fallarino F, Paolicelli G, Pieraccini G, Pieroni M, Galosi C, Beato C, De Luca A, Boscaro F, Romoli R, Liu X, Warris A, Verweij PE, Ballard E, Borghi M, Pariano M, Costantino G, Calvitti M, Vacca C, Oikonomou V, Gargaro M, Wong AYW, Boon L, den Hartog M, Spáčil Z, Puccetti P, Latgè JP, Keller NP, Romani L. Aspergillus fumigatus tryptophan metabolic route differently affects host immunity. *Cell Rep*. 2021 Jan 26;34(4):108673.