

## **SIgN affiliated publications by Shu Zhen CHONG**

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### **2025**

Vicanolo T, Özcan A, Li JL, Huerta-López C, Ballesteros I, Rubio-Ponce A, Dumitru AC, Nicolás-Ávila JÁ, Molina-Moreno M, Reyes-Gutierrez P, Johnston AD, Martone C, Greto E, Quílez-Alvarez A, Calvo E, Bonzon-Kulichenko E, Álvarez-Velez R, Chooi MY, Kwok I, González-Bermúdez B, Malleret B, Espinosa FM, Zhang M, Wang YL, Sun D, Zhen Chong S, El-Armouche A, Kim KK, Udalova IA, Greco V, Garcia R, Vázquez J, Dopazo A, Plaza GR, Alegre-Cebollada J, Uderhardt S, Ng LG, Hidalgo A. Matrix-producing neutrophils populate and shield the skin. *Nature*. 2025 Mar 19.

Chan FHM, Yeap HW, Liu Z, Rosli SN, Low KE, Bonne I, Wu Y, Chong SZ, Chen KW. Plasticity of cell death pathways ensures GSDMD activation during Yersinia pseudotuberculosis infection. *Cell Rep*. 2025 Jan 16;44(1):115216.

### **2024**

Wu Y, Teh YC, Chong SZ. Going Full TeRM: The Seminal Role of Tissue-Resident Macrophages in Organ Remodeling during Pregnancy and Lactation. *J Immunol*. 2024 Feb 15;212(4):513-521.

Hong M, Chong SZ, Goh YY, Tong L. Two-Photon and Multiphoton Microscopy in Anterior Segment Diseases of the Eye. *Int J Mol Sci*. 2024 Jan 30;25(3):1670.

Ng MSF, Kwok I, Tan L, Shi C, Cerezo-Wallis D, Tan Y, Leong K, Calvo GF, Yang K, Zhang Y, Jin J, Liang KH, Wu D, He R, Liu D, Teh YC, Bleriot C, Caronni N, Liu Z, Duan K, Narang V, Ballesteros I, Moalli F, Li M, Chen J, Liu Y, Liu L, Qi J, Liu Y, Jiang L, Shen B, Cheng H, Cheng T, Angeli V, Sharma A, Loh YH, Tey HL, Chong SZ, Iannacone M, Ostuni R, Hidalgo A, Ginhoux F, Ng LG. Deterministic reprogramming of neutrophils within tumors. *Science*. 2024 Jan 12;383(6679):eadf6493.

### **2023**

Teh YC, Chooi MY, Chong SZ. Behind the monocyte's mystique: uncovering their developmental trajectories and fates. *Discov Immunol*. 2023 Jul 19;2(1):kyad008.

### **2022**

Teh YC, Chooi MY, Liu D, Kwok I, Lai GC, Ayub Ow Yong L, Ng M, Li JLY, Tan Y, Evrard M, Tan L, Liang 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.

### **2021**

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]

### **2020**

Kwok I, Becht E, Xia Y, Ng M, Teh YC, Tan L, Evrard M, Li JLY, Tran HTN, Tan Y, Liu D, Mishra A, Liong KH, Leong K, Zhang Y, Olsson A, Mantri CK, Shyamsunder P, Liu Z, Piot C, Dutertre CA, Cheng H, Bari S, Ang N, Biswas SK, Koeffler HP, Tey HL, Larbi A, Su IH, Lee B, St John A, Chan JKY, Hwang WYK, Chen J, Salomonis N, Chong SZ, Grimes HL, Liu B, Hidalgo A, Newell EW, Cheng T, Ginhoux F, Ng LG. Combinatorial Single-Cell Analyses of Granulocyte-Monocyte Progenitor Heterogeneity Reveals an Early Uni-potent Neutrophil Progenitor. *Immunity*. 2020 Jun 22;S1074-7613(20)30235-1.

## 2019

Chong SZ, Angeli V. Cavity Macrophages Get to the Heart of the Issue. *Immunity*. 2019 Jul 16;51(1):7-9.

Teh YC, Ding JL, Ng LG, Chong SZ. Capturing the Fantastic Voyage of Monocytes Through Time and Space. *Front Immunol*. 2019 Apr 16;10:834.

Adrover JM, Del Fresno C, Crainiciuc G, Cuartero MI, Casanova-Acebes M, Weiss LA, Huerga-Encabo H, Silvestre-Roig C, Rossaint J, Cossio I, Lechuga-Vieco AV, Garcia-Prieto J, Gomez-Parrizas M, Quintana JA, Ballesteros I, Martin-Salamanca S, Aroca-Crevillen A, Chong SZ, Evrard M, Balabanian K, Lopez J, Bidzhekov K, Bachelier F, Abad-Santos F, Munoz-Calleja C, Zarbock A, Soehnlein O, Weber C, Ng LG, Lopez-Rodriguez C, Sancho D, Moro MA, Ibanez B, Hidalgo AA. A Neutrophil Timer Coordinates Immune Defense and Vascular Protection. *Immunity*. 2019 Feb 19;50(2):390-402.e10.

## 2018

Goh CC, Evrard M, Chong SZ, Tan Y, Tan LL, Teng KWW, Weninger W, Becker DL, Tey HL, Newell EW, Liu B, Ng LG. The impact of ischemia-reperfusion injuries on skin resident murine dendritic cells. *Eur J Immunol*. 2018 Jun;48(6):1014-1019.

Evrard M, Kwok IWH, Chong SZ, Teng KWW, Becht E, Chen J, Sieow JL, Penny HL, Ching GC, Devi S, Adrover JM, Li JLY, Liong KH, Tan L, Poon Z, Foo S, Chua JW, Su IH, Balabanian K, Bachelier F, Biswas SK, Larbi A, Hwang WYK, Madan V, Koeffler HP, Wong SC, Newell EW, Hidalgo A, Ginhoux F, Ng LG. Developmental Analysis of Bone Marrow Neutrophils Reveals Populations Specialized in Expansion, Trafficking, and Effector Functions. *Immunity*. 2018 Feb 20;48(2):364-379.e8.

Chong SZ, Evrard M, Goh CC, Ng LG. Illuminating the covert mission of mononuclear phagocytes in their regional niches. *Curr Opin Immunol*. 2018 Feb;50:94-101.

## 2016

Chong SZ, Evrard M, Devi S, Chen J, Lim JY, See P, Zhang Y, Adrover JM, Lee B, Tan L, Li J, Liong KH, Phua C, Balachander A, Boey A, Liebl D, Tan SM, Chan J, Balabanian K, Harris JE, Bianchini M, Weber C, Duchene J, Lum J, Poidinger M, Chen Q, Rénia L, Wang CI, Larbi A, Randolph GJ, Weninger W, Looney MR, Krummel MF, Biswas SK, Ginhoux F, Hidalgo A, Bachelier F, Ng LG. CXCR4 identifies transitional bone marrow premonocytes that replenish the mature monocyte pool for peripheral responses. *J Exp Med*. 2016 Oct 17;213(11):2293-2314.

Li JL, Lim CH, Tay FW, Goh CC, Devi S, Malleret B, Lee B, Bakocevic N, Chong SZ, Evrard M, Tanizaki H, Lim HY, Russell B, Renia L, Zolezzi F, Poidinger M, Angeli V, John AL, Harris JE, Tey HL, Tan SM, Kabashima K, Weninger W, Larbi A, Ng LG. Neutrophils Self-Regulate Immune Complex-Mediated Cutaneous Inflammation Through CXCL2. *J Invest Dermatol*. 2016 Feb;136(2):416-424.

## 2015

Evrard M, Chong SZ, Devi S, Chew WK, Lee B, Poidinger M, Ginhoux F, Tan SM, Ng LG. Visualization of bone marrow monocyte mobilization using Cx3cr1gfp/+Flt3L<sup>-/-</sup> reporter mouse by multiphoton intravital microscopy. *J Leukoc Biol*. 2015 Mar;97(3):611-9.

## 2014

Tan KW, Chong SZ, Angeli V. Inflammatory lymphangiogenesis: cellular mediators and functional implications. *Angiogenesis*. 2014 Apr;17(2):373-81.

Chong SZ, Tan KW, Wong FH, Chua YL, Tang Y, Ng LG, Angeli V, Kemeny DM. CD8 T Cells Regulate Allergic Contact Dermatitis by Modulating CCR2-Dependent TNF/iNOS-Expressing Ly6C+CD11b+ Monocytic Cells. *J Invest Dermatol*. 2014 Mar;134(3):666-76.

## 2013

Tan KW, Chong SZ, Wong FH, Evrard M, Tan SM, Keeble J, Kemeny DM, Ng LG, Abastado JP, Angeli V. Neutrophils contribute to inflammatory lymphangiogenesis by increasing VEGF-A bioavailability and secreting VEGF-D. *Blood*. 2013 Nov 21;122(22):3666-77.

Devi S, Wang Y, Chew WK, Lima R, A-González N, Mattar CN, Chong SZ, Schlitzer A, Bakocevic N, Chew S, Keeble JL, Goh CC, Li JL, Evrard M, Malleret B, Larbi A, Renia L, Haniffa M, Tan SM, Chan JK, Balabanian K, Nagasawa T, Bachelier F, Hidalgo A, Ginhoux F, Kubes P, Ng LG. Neutrophil mobilization via plerixafor-mediated CXCR4 inhibition arises from lung demargination and blockade of neutrophil homing to the bone marrow. *J Exp Med*. 2013 Oct 21;210(11):2321-36.

Chong SZ, Evrard M, Ng LG. Lights, camera and action: vertebrate skin sets the stage for immune cell interaction with arthropod-vectored pathogens. *Front Immunol*. 2013; 4:286.