

## **SIgN affiliated publications by Subhra BISWAS**

*Last updated: 30 May 2023*

### **2023**

Quah HS, Cao EY, Suteja L, Li CH, Leong HS, Chong FT, Gupta S, Arcinas C, Ouyang JF, Ang V, Celhar T, Zhao Y, Tay HC, Chan J, Takahashi T, Tan DSW, Biswas SK, Rackham OJL, Iyer NG. Single cell analysis in head and neck cancer reveals potential immune evasion mechanisms during early metastasis. *Nat Commun.* 2023 Mar 27;14(1):1680.



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Videgar 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.

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.

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.

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]



### **2021**

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.

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- $\kappa$ B module. *Proc Natl Acad Sci U S A*. 2021 Jun 22;118(25):e2024828118.

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.



## 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.

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Kongsuphol P, Gupta S, Liu Y, Bhuvanendran Nair Gourikutty S, Biswas SK, Ramadan Q. In vitro micro-physiological model of the inflamed human adipose tissue for immune-metabolic analysis in type II diabetes. *Sci Rep*. 2019 Mar 20;9(1):4887.

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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, Koefler 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.

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Saha S, Shalova IN, Biswas SK. Metabolic regulation of macrophage phenotype and function. *Immunol Rev*. 2017 Nov;280(1):102-111.

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## 2016

Biswas SK, Bonecchi R. Colonic Macrophages "Remote Control" Adipose Tissue Inflammation and Insulin Resistance. *Cell Metab*. 2016 Aug 9;24(2):196-8.

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Lee Y, Biswas SK. Rewiring macrophages for anti-tumour immunity. *Nat Cell Biol*. 2016 Jun 28;18(7):718-20.

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## 2015

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## 2014

Her Z, Teng TS, Tan JJ, Teo TH, Kam YW, Lum FM, Lee WW, Gabriel C, Melchiotti R, Andiappan AK, Lulla V, Lulla A, Win MK, Chow A, Biswas SK, Leo YS, Lecuit M, Merits A, Rénia L, Ng LF. Loss of TLR3 aggravates CHIKV replication and pathology due to an altered virus-specific neutralizing antibody response. *EMBO Mol Med*. 2014 Dec 1;7(1):24-41.

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Biswas SK, Allavena P, Mantovani A. Tumor-associated macrophages: functional diversity, clinical significance, and open questions. *Semin Immunopathol*. 2013 Sep;35(5):585-600.

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Biswas SK, Lopez-Collazo E. Endotoxin tolerance: new mechanisms, molecules and clinical significance. *Trends Immunol.* 2009 Oct;30(10):475-87. Epub 2009 Sep 24.

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## Books and book chapters

“Tumor microenvironment and Myelomonocytic cells” (Ed. S.K. Biswas, 2012, InTech, Croatia; ISBN 978-953-51-0439-1), Downloaded 25634 times. “Macrophages: Biology and Role in the Pathology of Diseases (Eds. S. K. Biswas & Alberto Mantovani, 2014, Springer; ISBN 978-1-4939-1311-4), Downloaded: 20,276 times. Top 25% of the most downloaded eBook (Springer).

I.N. Shalova, S. Saha, S.K. Biswas (2018): Monocytes and Macrophages (In Inflammation: from molecular and cellular mechanisms to the clinic. Ed. J.M. Cavaillon & M. Singer; Wiley-VCH, Weinheim, Germany).

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S.K. Biswas and I.N. Shalova (2012): Endotoxin Tolerance as a key mechanism for immunosuppression (In Immunosuppression, Ed. S. Kapur & M.B. Portela, Intech, Croatia; ISBN 978-953-51-0152-9).

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