

## **SlgN affiliated publications by Anna-Marie FAIRHURST**

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### **2025**

Layton E, Goldsworthy S, Yang E, Ong WY, Sutherland TE, Bancroft AJ, Thompson S, Au VB, Griffiths-Jones S, Grecis RK, [Fairhurst AM](#), Roberts IS. An optimised faecal microRNA sequencing pipeline reveals fibrosis in *Trichuris muris* infection. [Nat Commun](#). 2025 Feb 12;16(1):1589.

### **2024**

Wang A, [Fairhurst AM](#), Liu K, Wakeland B, Barnes S, Malladi VS, Viswanathan K, Arana C, Dozmorov I, Singhar A, Du Y, Imam M, Moses A, Chen C, Sunkavalli A, Casco J, Rakheja D, Li QZ, Mohan C, Clayberger C, Wakeland EK, Khan S. KLF13 promotes SLE pathogenesis by modifying chromatin accessibility of key proinflammatory cytokine genes. [Commun Biol](#). 2024 Nov 6;7(1):1446.

### **2023**

Tay SH, Zharkova O, Lee HY, Toh MMX, Libau EA, Celhar T, Narayanan S, Ahl PJ, Ong WY, Joseph C, Lim JCT, Wang L, Larbi A, Liang S, Lateef A, Akira S, Ling LH, Thamboo TP, Yeong JPS, Lee BTK, Edwards SW, Wright HL, MacAry PA, Connolly JE, Fairhurst AM. Platelet TLR7 is essential for the formation of platelet-neutrophil complexes and low-density neutrophils in lupus nephritis. [Rheumatology \(Oxford\)](#). 2023 Jun 21;kead296.

### **2022**

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.

### **2021**

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

### **2019**

de Kleijn DPV, Chong SY, Wang X, Yatim SMJM, Fairhurst AM, Vernooij F, Zharkova O, Chan M, Foo RSY, Timmers L, Lam CSP, Wang JW. Toll-like Receptor 7 Deficiency Promotes Survival and Reduces Adverse Left Ventricular Remodeling After Myocardial Infarction. [Cardiovasc Res](#). 2019 Oct 1;115(12):1791-1803.

Qin L, Stanley S, Ding H, Zhang T, Truong VTT, Celhar T, Fairhurst AM, Pedroza C, Petri M, Saxena R, Mohan C. Urinary pro-thrombotic, anti-thrombotic, and fibrinolytic molecules as biomarkers of lupus nephritis. [Arthritis Res Ther](#). 2019 Aug 7;21(1):185.

Celhar T, Lu HK, Benso L, Rakhilina L, Lee HY, Tripathi S, Zharkova O, Ong WY, Yasuga H, Au B, Marlier D, Lim LHK, Thamboo TP, Mudgett JS, Mackey MF, Zaller DM, Connolly JE, Fairhurst AM. TLR7 Protein

Expression in Mild and Severe Lupus-Prone Models Is Regulated in a Leukocyte, Genetic, and IRAK4 Dependent Manner. *Front Immunol*. 2019 Jul 10;10:1546.

Neo JYJ, Wee SYK, Bonne I, Tay SH, Raida M, Jovanovic V, Fairhurst AM, Lu J, Hanson BJ, MacAry PA. Characterisation of a human antibody that potentially links cytomegalovirus infection with systemic lupus erythematosus. *Sci Rep*. 2019 Jul 10;9(1):9998.

Zharkova O, Tay SH, Lee HY, Shubhita T, Ong WY, Lateef A, MacAry PA, Lim LHK, Connolly JE, Fairhurst AM. A Flow Cytometry-Based Assay for High-Throughput Detection and Quantification of Neutrophil Extracellular Traps in Mixed Cell Populations. *Cytometry A*. 2019 Mar;95(3):268-278.

## 2018

Skibinski DAG, Jones LA, Zhu YO, Xue LW, Au B, Lee B, Naim ANM, Lee A, Kaliaperumal N, Low JGH, Lee LS, Poidinger M, Saudan P, Bachmann M, Ooi EE, Hanson BJ, Novotny-Diermayr V, Matter A, Fairhurst AM, Hibberd ML, Connolly JE. Induction of Human T-cell and Cytokine Responses Following Vaccination with a Novel Influenza Vaccine. *Sci Rep*. 2018 Dec 20;8(1):18007.

Celhar T, Yasuga H, Lee HY, Zharkova O, Tripathi S, Thornhill SI, Lu HK, Au B, Lim LHK, Thamboo TP, Akira S, Wakeland EK, Connolly JE, Fairhurst AM. TLR9 deficiency breaks tolerance to RNA-associated antigens and upregulates TLR7 protein in Sle1 mice. *Arthritis Rheumatol*. 2018 Oct;70(10):1597-1609.

Mak A, Thornhill SI, Lee HY, Lee B, Poidinger M, Connolly JE, Fairhurst AM. Brief report: Decreased expression of CD244 (SLAMF4) on monocytes and platelets in patients with systemic lupus erythematosus. *Clin Rheumatol*. 2018 Mar;37(3):811-816.

## 2017

Moraes LA, Kar S, Foo SL, Gu T, Toh YQ, Ampomah PB, Sachaphibulkij K, Yap G, Zharkova O, Lukman HM, Fairhurst AM, Kumar AP, Lim LHK. Annexin-A1 enhances breast cancer growth and migration by promoting alternative macrophage polarization in the tumour microenvironment. *Sci Rep*. 2017 Dec 20;7(1):17925.

Thornhill SI, Mak A, Lee B, Lee HY, Poidinger M, Connolly JE, Fairhurst AM. Monocyte Siglec-14 expression is upregulated in patients with systemic lupus erythematosus and correlates with lupus disease activity. *Rheumatology (Oxford)*. 2017 Jun 1;56(6):1025-1030.

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Tay SH, Fairhurst AM, Mak A. Clinical Utility of Circulating Anti-N-Methyl-D-Aspartate Receptor Subunits NR2A/B Antibody for the Diagnosis of Neuropsychiatric Syndromes in Systemic Lupus Erythematosus and Sjögren's Syndrome: An Updated Meta-Analysis. *Autoimmun Rev*. 2017 Feb;16(2):114-122.

## 2016

Arora S, Lim W, Bist P, Perumalsamy R, Lukman HM, Li F, Welker LB, Yan B, Sethi G, Tambyah PA, Fairhurst AM, Alonso S, Lim LH. Influenza A virus enhances its propagation through the modulation of Annexin-A1 dependent endosomal trafficking and apoptosis. *Cell Death Differ*. 2016 Jul;23(7):1243-56.

Sim WJ, Malinarich F, Fairhurst AM, Connolly JE. Generation of Immature, Mature and Tolerogenic Dendritic Cells with Differing Metabolic Phenotypes. *J Vis Exp*. 2016 Jun 22;(112).

Celhar T, Pereira-Lopez S, Thornhill SI, Hui Yin L, Dhillon MK, Poidinger M, Connolly JE, Lim LH, Biswas SK, Fairhurst AM. TLR7 and TLR9 ligands regulate Antigen Presentation by Macrophages. *Int Immunol*. 2016 May;28(5):223-32.

## 2015

Celhar T, Hopkins R, Thornhill SI, De Magalhaes R, Hwang SH, Lee HY, Yasuga H, Jones LA, Casco J, Lee B, Thamboo TP, Zhou XJ, Poidinger M, Connolly JE, Wakeland EK, Fairhurst AM. RNA sensing by conventional dendritic cells is central to the development of lupus nephritis. *Proc Natl Acad Sci U S A*. 2015 Nov 10;112(45):E6195-204.

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## 2014

Celhar T, Fairhurst AM. Toll-like receptors in systemic lupus erythematosus: potential for personalized treatment. *Front Pharmacol*. 2014 Dec 8;5:265.

Chao Y, Kaliaperumal N, Chretien AS, Tang S, Lee B, Poidinger M, Fairhurst AM, Connolly JE. Human plasmacytoid dendritic cells regulate IFN- $\alpha$  production through activation-induced splicing of IL-18R $\alpha$ . *J Leukoc Biol*. 2014 Dec;96(6):1037-46.

## 2013

Pereira-Lopes S, Celhar T, Sans-Fons G, Serra M, Fairhurst AM, Lloberas J, Celada A. The Exonuclease Trex1 Restrains Macrophage Proinflammatory Activation. *J Immunol*. 2013 Dec 15;191(12):6128-35.

Skibinski DA, Hanson BJ, Lin Y, von Messling V, Jegerlehner A, Tee JB, Chye de H, Wong SK, Ng AA, Lee HY, Au B, Lee BT, Santoso L, Poidinger M, Fairhurst AM, Matter A, Bachmann MF, Saudan P, Connolly JE. Enhanced Neutralizing Antibody Titers and Th1 Polarization from a Novel Escherichia coli Derived Pandemic Influenza Vaccine. *PLoS One*. 2013 Oct 18;8(10):e76571.

Bist P, Shu S, Lee H, Arora S, Nair S, Lim JY, Dayalan J, Gasser S, Biswas SK, Fairhurst AM, Lim LH. Annexin-A1 Regulates TLR-Mediated IFN- $\beta$  Production through an Interaction with TANK-Binding Kinase 1. *J Immunol*. 2013 Oct 15;191(8):4375-4382.

## 2012

Hwang SH, Lee H, Yamamoto M, Jones LA, Dayalan J, Hopkins R, Zhou XJ, Yarovinsky F, Connolly JE, Curotto de Lafaille MA, Wakeland EK, Fairhurst AM. B Cell TLR7 Expression Drives Anti-RNA Autoantibody Production and Exacerbates Disease in Systemic Lupus Erythematosus-Prone Mice. *J Immunol*. 2012 Dec 15;189(12):5786-96.

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