

APPLIED IMMUNOLOGY & IMMUNOTHERAPY GROUP PUBLICATIONS 2015-2021

Harris group members are indicated in **red**

126. Guo M, Goudarzi KM, Abedi S, **Pieber M**, Sjöberg E, **Zhang X-M**, **Harris RA**, Bartek J, Lindström MS, Nistér M, Hägerstrand D: SFRP2 induces a mesenchymal subtype transition by suppression of SOX2 in glioblastoma. *Oncogene* 2021 **IF:7.97**
125. **Han J**, **Fan Y**, Zhou K, Blomgren K, **Harris RA**: Uncovering microglial sexual dimorphism and why it matters for disease: Better understanding, better translation. *J Neuroinflammation* 2021 **18:74 IF:5.79**
124. Månberg A, Skene N, Sanders F, Trusohamn M, Remnestål J, Szczepińska A, Aksoylu IS, Lönnerberg P, Ebarasi L, Wouters S, Lehmann M, Olofsson J, Von Gohren Antequera I, Domaniku A, De Schaepdryver M, De Vocht J, Poesen K, Uhlén M, Anink J, Mijnsbergen C, Vergunst-Bosch H, Hübers A, Kläppe U, Rodriguez-Vieitez E, Gilthorpe JD, Hedlund E, **Harris RA**, Aronica E, Van Damme P, Ludolph A, Veldink J, Ingre C, Nilsson P, **Lewandowski SA**: Altered perivascular fibroblast activity precedes ALS disease onset. *Nature Medicine* 2021 **27:640–646 IF:3613**
123. Rangasami VK, Samanta S, Parihar VS, Asawa K, **Zhu K**, Varghese OP, Teramura Y, Nilsson B, Hilborn J, **Harris RA**, Oommen OP: Harnessing hyaluronic acid-based nanoparticles for combination therapy: A novel approach for suppressing systemic inflammation and to promote antitumor macrophage polarization *Carbohydrate Polymers* 2021 **254:117291 IF:7.18**
122. Gromark C, Hesselmark E, Djupedal IG, Silverberg M, Horne A, **Harris RA**, Serlachius E, Mataix-Cols D: A two-to-five year follow-up of a pediatric acute-onset neuropsychiatric syndrome cohort. *Child Psychiatry Hum Dev.* 2021 **9:1-11 IF:2.23**
121. **Han J**, **Sarlus H**, Wszolek ZK, Karrenbauer VD, **Harris RA**: Microglial replacement therapy: a potential therapeutic strategy for incurable CSF1R-related leukoencephalopathy. *Acta Neuropathol Commun.* 2020 **8:217 IF:4.56**
120. **Han J**, **Fan Y**, Zhou K, **Zhu K**, Blomgren K, **Lund H**, **Zhang XM**, **Harris RA**: Underestimated peripheral effects following pharmacological and conditional genetic microglial depletion. *Int J Mol Sci.* 2020 **21:8603 IF:4.56**
119. **Han J**, **Zhu K**, Zhou K, Hakim R, Sankavaram SR, Blomgren K, **Lund H**, **Zhang XM**, **Harris RA**: Sex-specific effects of microglia-like cell engraftment during Experimental Autoimmune Encephalomyelitis. *Int J Mol Sci.* 2020 **21:6824 IF:4.56**
118. Berglund R, Ortlieb Guerreiro-Cacais A, Zeitelhofer Adzemovic M, Zeitelhofer M, **Lund H**, Ewing E, Ruhrmann S, **Parsa R**, Thessen-Hedreul M, **Harris RA**, Olsson T, Jagodic M: Microglial autophagy-associated phagocytosis is essential for recovery from neuroinflammation. *Science Immunology* 2020 **5:52 IF:8.16**
117. Carlström KE, **Zhu K**, Ewing E, Krabbendam IE, **Harris RA**, Mendanha Falcão A, Jagodic M, Castelo-Branco G, Piehl F: Glutathione S-transferase 4 α is a key regulator of oligodendrocyte differentiation and remyelination in models of multiple sclerosis, by reducing Fas/Caspase-8 pathway activity. *Nature Communications* 2020 **IF:12.35**
116. Tsuji S, di Martino E, Mukai T, Tsuji S, Murakami T, **Harris RA**, Blomgren K, Åden U: Aggravated brain injury in microglia depleted male mice after neonatal hypoxic ischemia. *Journal of Neuroinflammation* 2020 **17:111 IF:6.03**

115. Zhu K, Pieber M, Blomgren K, Zhang X-M, Harris RA, Lund H: Absence of microglia or presence of peripherally derived macrophages do not affect tau pathology in young or old hTau mice. *Glia* 2020 **68**:1466–1478 **IF:5.83**
114. N'diaye M, Brauner S, Flytzani S, Kular L, Warnecke A, Adzemovic MZ, Piket E, Edwards W, Mela F, Hoi Yin C, Magg V, James T, Linden M, Reichardt HM, Daws ME, van Horsen J, Kockum I, Harris RA, Olsson T, Ortlieb Guerreiro-Cacais A, Jagodic M: C-type lectin receptors Mcl and Mincle control development of multiple sclerosis-like neuroinflammation. *Journal of Clinical Investigation* 2020 **130**:838–852 **IF:12.28**
113. Di Martino E, Bocchetta E, Tsujia S, Mukai T, Harris RA, Blomgren K, Ådén U: Defining a therapeutic window for neuroprotection and glia modulation by caffeine during neonatal hypoxia-ischemia. *Molecular Neurobiology* 2019 **57**: 2194–2205 **IF:5.07**
112. Gromark C, Harris RA, Wickström R, Horne AC, Silverberg M, Serlachius E, Mataix-Cols D: Establishing a pediatric acute-onset neuropsychiatric syndrome clinic: Baseline clinical features of the PANS cohort at Karolinska Institutet. *Journal of Child and Adolescent Psychopharmacology* **29**:625-633 PMID:31170007 **IF:2.90**
111. Tang Q, Gheorghe KR, Zhang X-M, Lindroos E, Alexanderson H, Wick C, Bruton M, Fernandes-Cerqueira C, Harris RA, Nennesmo I, Lundberg IE: Features of repeated muscle biopsies and phenotypes of monocytes in paired blood samples and clinical long-term response to treatment in patients with idiopathic inflammatory myopathy – a pilot study. *Clinical and Experimental Rheumatology* **38**:42-49 PMID:31140400 **IF:3.20**
110. Lippitz BE, Harris RA: A translational concept of immuno-radiobiology. *Radiotherapy and Oncology* 2019 **140**:116-124 PMID:31271996 **IF:4.94**
109. Williams A, Jones MG, Jonsson R, Harris RA, Mulvany MJ: A comparison of doctoral training in biomedicine and medicine for some UK and Scandinavian graduate programmes. Learning from each other. 2019 *FEBS OpenBio* **9**:830-839 **IF:2.36**
108. Yang T, Xu G, Newton PT, Chagin AS, Mkrтчian S, Carlström M, Zhang X-M, Harris RA, Cooter M, Berger M, Maddipati KR, Akassoglou K, Terrando N: Maresin 1 attenuates neuroinflammation in a mouse model of perioperative neurocognitive disorders. *British Journal of Anaesthesia* 2019 **122**:350-360 PMID:30770053 **IF:6.49**
107. Zhu K, Sun J, Kang Z, Zouab Z, Wu X, Wang Y, Wu G, Harris RA, Wang J: Repurposing of omeprazole for oligodendrocyte differentiation and remyelination. *Brain Research* 2019 **1710**:33-42 PMID:30590025 **IF:3.12**
106. Lund H, Pieber M, Parsa R, Han J, Grommisch D, Ewing E, Kular L, Needhamsen M, Butovsky O, Jagodic M, Zhang X-M, Harris RA: Competitive repopulation of an empty microglial niche yields functionally distinct subsets of microglia-like cells. *Nature Communications* 2018 **9**:4845 PMID:30451869 **IF:12.35**
105. Han J, Zhu K, Zhang X-M, Harris RA: Enforced microglial depletion and repopulation as a promising strategy for the treatment of neurological disorders. *Glia* 2019 **67**:217–231 PMID:30378163 **IF:6.2**
104. Wallmann T, Zhang X-M, Wallerius M, Bolin S, Joly A-L, Sobocki C, Leiss L, Jiang Y, Bergh J, Andersson J, Holland EC, Enger PØ, Swartling FJ, Uhrbom L, Miletic H, Harris RA, Rolny C: Microglia induce PDGFRB expression in glioma cells to enhance their migratory capacity. *iScience* 2018 **9**:71-83 PMID:30384135 **IF:4.56**
103. Obeed OAA, Vaali-Mohamed M-A, Alkhayal KA, Traiki TAB, Zubaidi AM, Arafah M, Harris RA, Khan Z, Hamadien Abdulla M. Interleukin 17 and colorectal cancer risk in Middle East: Gene polymorphisms and expression. *Cancer Management and Research* 2018:10 2653–2661 PMID:30233234 **IF:3.85**

102. Lund H, Pieber M, Parsa R, Grommisch D, Ewing E, Kular L, Han J, Zhu K, Nijssen J, Hedlund E, Needhamsen M, Ruhrmann S, Ortlieb Guerreiro Cacais A, Berglund R, Forteza MJ, Ketelhuth DFJ, Butovsky O, Jagodic M, Zhang X-M, Harris RA: Fatal demyelinating disease is induced by monocyte-derived macrophages in the absence of TGF- β signaling. *Nature Immunology* 2018;19:1-7 PMID:29662171 IF:21.51
101. Warnecke A, Abele S, Musunuri S, Bergquist J, Harris RA: Scavenger Receptor A mediates the clearance and immunological screening of MDA-modified antigen by M2 type macrophages. *NeuroMolecular Medicine* 2017;9:463-479 PMID:28828577 IF:3.29
100. Sackmann V, Ansell A, Sackmann C, Lund H, Harris RA, Hallbeck M, Nilsberth C: Anti-inflammatory (M2) macrophage media reduce transmission of oligomeric amyloid-beta in differentiated SH-SY5Y cells. *Neurobiology of Aging* 2017;60:173-182 PMID:28969867 IF:5.12
99. Needhamsen M, Ewing E, Lund H, Gomez-Cabrero D, Harris RA, Kular L, Jagodic M: Usability of human Infinium MethylationEPIC BeadChip for mouse DNA methylation studies. *BMC Bioinformatics*. 2017;18:486 PMID:29141580 IF:2.45
98. Barnett JV, Harris RA, Mulvany MJ: A comparison of best practices for doctoral training in the European and North American continents. *FEBS Open Bio* 2017 7: 1444–1452 PMID: 28979835 IF:2.14
97. Yang T, Zhang X-M, Tarnawski L, Peleli M, Zhuge Z, Terrando N, Harris RA, Olofsson P, Larsson E, Persson AEG, Lundberg JO, Weitzberg E, Carlstrom M: Dietary nitrate attenuates renal ischemia-reperfusion injuries by modulation of immune responses and reduction of oxidative stress. *Redox Biology* 2017;13:320-330 PMID:28623824 IF:6.34
94. Warnecke A, Musunuri S, N'diaye M, Sandalova T, Achour A, Bergquist J, Harris RA: Nitration of MOG diminishes its encephalitogenicity depending on MHC haplotype. *Journal of Neuroimmunology* 2017;303:1-12 PMID:28011088 IF:2.72
93. Han W, Umekawa T, Zhou K, Zhang X-M, Harris RA, Zhu C, Blomgren K: Cranial irradiation induces transient microglia accumulation, followed by long-lasting inflammation and loss of microglia. *OncoTarget* 2016;7:82305-82323 PMID:27793054 IF:5.17
92. Hägglöf T, Sedimbi KS, Yates JL, Parsa R, Hauff B, Harris RA, Leadbetter EA, Karlsson MCI: Neutrophils license iNKT cells to regulate self-reactive mouse B cell responses. *Nature Immunology* 2016;17:1407-1414 PMID:27798616 IF:21.51
91. Parsa R, Lund H, Tosevski I, Zhang XM, Malipiero U, Beckervordersandforth J, Merkler D, Prinz M, Gyllenberg A, James T, Warnecke A, Hillert J, Alfredsson L, Kockum I, Olsson T, Fontana A, Suter T, Harris RA: TGF β regulates persistent neuroinflammation by controlling Th1 polarization and ROS production via monocyte-derived dendritic cells. *Glia* 2016;64:1925-37. PMID:27479807 IF:6.20
90. Radenkovic M, Åkesson C, Arvastsson J, Lynch K, Lernmark Å, Harris RA, Agardh CD, Cilio C: Altered regulatory T-cell phenotype in latent autoimmune diabetes of the adults (LADA). *Clinical and Experimental Immunology* 2016;186:46-56 PMID:27357431 IF:3.41
89. Schmidt A, Zhang X-M, Joshi RN, Iqbal S, Wahlund C, Gabrielsson S, Harris RA*, Tegnér J*: Human macrophages induce CD4⁺Foxp3⁺ regulatory T cells via binding and re-release of TGF- β . *Immunology & Cell Biology* 2016;94:747-62 PMID:27075967 IF:4.56
88. Parsa R, Lund L, Georgoudaki A-M, Zhang X-M, Ortlieb Guerreiro-Cacais A, Grommisch D, Warnecke A, Croxford AL, Jagodic M, Becher B, Karlsson MCI, Harris RA: BAFF-secreting neutrophils drive plasma cell genesis during emergency granulopoiesis. *Journal of Experimental Medicine* 2016;213:1537-53 PMID:27432941 IF:11.91

87. Yang T, Zollbrecht C, Winerdal ME, Zhuge Z, Zhang X-M, Terrando N, Checa A, Sällström J, Wheelock C, Winqvist O, Harris RA, Larsson E, Persson AE, Fredholm BB, Carlström M: Genetic abrogation of adenosine A3 receptor prevents uninephrectomy and high salt-induced hypertension. *Journal American Heart Association* 2016;5(7). pii: e003868 PMID:27431647 **IF:4.86**
86. Tarasova NK, Ytterberg AJ, Lundberg K, Zhang XM, Harris RA, Zubarev RA: Establishing a proteomics-based monocyte assay to assess differential innate immune activation responses. *Journal Proteome Research* 2016;15:2337-45 PMID:27223872 **IF:4.27**
85. Georgoudaki A-M, Prokopec K, Hellqvist E, Boura V, Östling J, Sohn S, Harris RA, Rantalainen M, Klevebring D, Sund M, Fuxe J, Rolny C, Li F, Ravetch, Karlsson MCI: Reprogramming tumor associated macrophages by antibody targeting inhibits cancer progression and metastasis. *Cell Reports* 2016;15:2000-2011 PMID:27210762 **IF:8.28**
84. Yao G, Wang P, Luo XD, Yu TM, Harris RA, Zhang XM: Meta-analysis of association between *Helicobacter pylori* infection and multiple sclerosis. *Neuroscience Letters* 2016;620:1-7 PMID:27033666 **IF:2.18**
83. N'diaye M, Warnecke A, Flytzani S, Abdelmagid N, Ruhrmann S, Olsson T, Jagodic M*, Harris RA*, Guerreiro-Cacais AO*: Rat bone marrow-derived dendritic cells generated with GM-CSF/IL-4 or FLT3L exhibit distinct phenotypical and functional characteristics. *Journal Leukocyte Biology* 2016;99:437-46. PMID:26516183 **IF:4.02**
82. Mills CD, Lenz LL, Harris RA: A Breakthrough: Macrophage-directed cancer immunotherapy. *Cancer Research* 2016;76:3 PMID:26772756 **IF:9.12**
80. Mills CD, Harris RA, Ley K: Macrophage polarization: Decisions that affect health. *Clinical Cell Immunology* 2015;6:5 pii: 364. PMID:26962469 **IF:2.06**
79. Tarasova N, Ytterberg A, Lundberg K, Harris RA, Zubarev R: Proteomics reveals a role for attachment in monocyte differentiation into efficient proinflammatory macrophages. *Journal Proteome Research* 2015;14:3940–3947 PMID:26216291 **IF:4.25**
78. Yang T, Gao X, Sandberg M, Zollbrecht C, Zhang X-M, Hezel M, Liu M, Peleli M, Lai EN, Harris RA, Persson AE, Fredholm BB, Jansson L, Carlström M: Abrogation of adenosine A1 receptor signaling improves metabolic regulation in aging and obesity. *Diabetologia* 2015;58:1610-20 PMID:25835725 **IF:6.20**