

# Rob J W Arts

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

8,267  
citations

147726

31  
h-index

206029

48  
g-index

52  
all docs

52  
docs citations

52  
times ranked

11222  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | mTOR- and HIF-1 $\alpha$ -mediated aerobic glycolysis as metabolic basis for trained immunity. <i>Science</i> , 2014, 345, 1250684.  | 6.0  | 1,517     |
| 2  | BCG Vaccination Protects against Experimental Viral Infection in Humans through the Induction of Cytokines Associated with Trained Immunity. <i>Cell Host and Microbe</i> , 2018, 23, 89-100.e5. | 5.1  | 860       |
| 3  | Glutaminolysis and Fumarate Accumulation Integrate Immunometabolic and Epigenetic Programs in Trained Immunity. <i>Cell Metabolism</i> , 2016, 24, 807-819.                                      | 7.2  | 584       |
| 4  | Metabolic Induction of Trained Immunity through the Mevalonate Pathway. <i>Cell</i> , 2018, 172, 135-146.e9.   | 13.5 | 485       |
| 5  | Immunometabolic Pathways in BCG-Induced Trained Immunity. <i>Cell Reports</i> , 2016, 17, 2562-2571.   | 2.9  | 467       |
| 6  | $\beta$ -Glucan Reverses the Epigenetic State of LPS-Induced Immunological Tolerance. <i>Cell</i> , 2016, 167, 1354-1368.e14.  | 13.5 | 467       |
| 7  | Broad defects in the energy metabolism of leukocytes underlie immunoparalysis in sepsis. <i>Nature Immunology</i> , 2016, 17, 406-413.   | 7.0  | 437       |
| 8  | The International Human Epigenome Consortium: A Blueprint for Scientific Collaboration and Discovery. <i>Cell</i> , 2016, 167, 1145-1149.  | 13.5 | 404       |
| 9  | Non-specific effects of BCG vaccine on viral infections. <i>Clinical Microbiology and Infection</i> , 2019, 25, 1473-1478.   | 2.8  | 369       |
| 10 | The Itaconate Pathway Is a Central Regulatory Node Linking Innate Immune Tolerance and Trained Immunity. <i>Cell Metabolism</i> , 2019, 29, 211-220.e5.  | 7.2  | 232       |
| 11 | TREM-1: intracellular signaling pathways and interaction with pattern recognition receptors. <i>Journal of Leukocyte Biology</i> , 2013, 93, 209-215.  | 1.5  | 215       |
| 12 | Trained innate immunity as underlying mechanism for the long-term, nonspecific effects of vaccines. <i>Journal of Leukocyte Biology</i> , 2015, 98, 347-356.                                     | 1.5  | 184       |
| 13 | Outcomes of controlled human malaria infection after BCG vaccination. <i>Nature Communications</i> , 2019, 10, 874.  | 5.8  | 165       |
| 14 | Inhibiting Inflammation with Myeloid Cell-Specific Nanobiologics Promotes Organ Transplant Acceptance. <i>Immunity</i> , 2018, 49, 819-828.e6.   | 6.6  | 161       |
| 15 | Immunometabolic circuits in trained immunity. <i>Seminars in Immunology</i> , 2016, 28, 425-430.   | 2.7  | 159       |
| 16 | Mycobacterial growth inhibition is associated with trained innate immunity. <i>Journal of Clinical Investigation</i> , 2018, 128, 1837-1851.   | 3.9  | 144       |
| 17 | The Potential Role of Trained Immunity in Autoimmune and Autoinflammatory Disorders. <i>Frontiers in Immunology</i> , 2018, 9, 298.  | 2.2  | 135       |
| 18 | BCG vaccination in humans inhibits systemic inflammation in a sex-dependent manner. <i>Journal of Clinical Investigation</i> , 2020, 130, 5591-5602.   | 3.9  | 96        |

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|----|--|-----|-----------|
| 19 | Transcriptional and metabolic reprogramming induce an inflammatory phenotype in non-medullary thyroid carcinoma-induced macrophages. <i>Oncolmmunology</i> , 2016, 5, e1229725.                                      | 2.1 | 95        |
| 20 | BCG-induced non-specific effects on heterologous infectious disease in Ugandan neonates: an investigator-blind randomised controlled trial. <i>Lancet Infectious Diseases</i> , The, 2021, 21, 993-1003.             | 4.6 | 95        |
| 21 | Circadian rhythm influences induction of trained immunity by BCG vaccination. <i>Journal of Clinical Investigation</i> , 2020, 130, 5603-5617.   | 3.9 | 95        |
| 22 | Cellular metabolism of myeloid cells in sepsis. <i>Journal of Leukocyte Biology</i> , 2017, 101, 151-164.  | 1.5 | 85        |
| 23 | Metformin Alters Human Host Responses to Mycobacterium tuberculosis in Healthy Subjects. <i>Journal of Infectious Diseases</i> , 2019, 220, 139-150.   | 1.9 | 78        |
| 24 | Long-term in vitro and in vivo effects of $\hat{I}^3$ -irradiated BCG on innate and adaptive immunity. <i>Journal of Leukocyte Biology</i> , 2015, 98, 995-1001.   | 1.5 | 74        |
| 25 | Rewiring monocyte glucose metabolism via C-type lectin signaling protects against disseminated candidiasis. <i>PLoS Pathogens</i> , 2017, 13, e1006632.  | 2.1 | 73        |
| 26 | TREM-1 interaction with the LPS/TLR4 receptor complex. <i>European Cytokine Network</i> , 2011, 22, 11-14.   | 1.1 | 54        |
| 27 | Vitamin A induces inhibitory histone methylation modifications and down-regulates trained immunity in human monocytes. <i>Journal of Leukocyte Biology</i> , 2015, 98, 129-136.                                      | 1.5 | 53        |
| 28 | An enigma: why vitamin A supplementation does not always reduce mortality even though vitamin A deficiency is associated with increased mortality. <i>International Journal of Epidemiology</i> , 2015, 44, 906-918. | 0.9 | 50        |
| 29 | Pyruvate dehydrogenase complex stimulation promotes immunometabolic homeostasis and sepsis survival. <i>JCI Insight</i> , 2018, 3, .   | 2.3 | 48        |
| 30 | InÂvitro induction of trained immunity in adherent human monocytes. <i>STAR Protocols</i> , 2021, 2, 100365.   | 0.5 | 42        |
| 31 | The anti-inflammatory cytokine interleukin-37 is an inhibitor of trained immunity. <i>Cell Reports</i> , 2021, 35, 108955.   | 2.9 | 40        |
| 32 | Frontline Science: Endotoxin-induced immunotolerance is associated with loss of monocyte metabolic plasticity and reduction of oxidative burst. <i>Journal of Leukocyte Biology</i> , 2019, 106, 11-25.              | 1.5 | 38        |
| 33 | Defective protein prenylation is a diagnostic biomarker of mevalonate kinase deficiency. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 873-875.e6.  | 1.5 | 29        |
| 34 | The role of Tollâ€like receptor 10 in modulation of trained immunity. <i>Immunology</i> , 2020, 159, 289-297.  | 2.0 | 28        |
| 35 | Lysine methyltransferase G9a is an important modulator of trained immunity. <i>Clinical and Translational Immunology</i> , 2021, 10, e1253.  | 1.7 | 25        |
| 36 | IL-1 family cytokines as drivers and inhibitors of trained immunity. <i>Cytokine</i> , 2022, 150, 155773.  | 1.4 | 25        |

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|----|--|-----|-----------|
| 37 | Defective Protein Prenylation in a Spectrum of Patients With Mevalonate Kinase Deficiency. <i>Frontiers in Immunology</i> , 2019, 10, 1900.  | 2.2 | 21        |
| 38 | IL-38 prevents induction of trained immunity by inhibition of mTOR signaling. <i>Journal of Leukocyte Biology</i> , 2021, 110, 907-915.  | 1.5 | 20        |
| 39 | Bacillus Calmette-Guérin vaccination at birth and in vitro cytokine responses to non-specific stimulation. A randomized clinical trial. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2018, 37, 29-41.              | 1.3 | 18        |
| 40 | Differential effects of BCG vaccine on immune responses induced by vi polysaccharide typhoid fever vaccination: an explorative randomized trial. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2020, 39, 1177-1184. | 1.3 | 16        |
| 41 | Adaptive Characteristics of Innate Immune Responses in Macrophages. <i>Microbiology Spectrum</i> , 2016, 4, .  | 1.2 | 13        |
| 42 | Controlled Human Malaria Infection Induces Long-Term Functional Changes in Monocytes. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 604553.   | 1.6 | 13        |
| 43 | Gamma-Irradiated Bacille Calmette-Guérin Vaccination Does Not Modulate the Innate Immune Response during Experimental Human Endotoxemia in Adult Males. <i>Journal of Immunology Research</i> , 2015, 2015, 1-11.                                | 0.9 | 12        |
| 44 | DNA Synthesis Is Activated in Mosquitoes and Human Monocytes During the Induction of Innate Immune Memory. <i>Frontiers in Immunology</i> , 2018, 9, 2834.   | 2.2 | 12        |
| 45 | High-Mobility Group Nucleosome-Binding Protein 1 as Endogenous Ligand Induces Innate Immune Tolerance in a TLR4-Sirtuin-1 Dependent Manner in Human Blood Peripheral Mononuclear Cells. <i>Frontiers in Immunology</i> , 2018, 9, 526.           | 2.2 | 12        |
| 46 | Oncogene-induced maladaptive activation of trained immunity in the pathogenesis and treatment of Erdheim-Chester disease. <i>Blood</i> , 2021, 138, 1554-1569.   | 0.6 | 10        |
| 47 | Small bowel leiomyosarcoma: A case report and literature review. <i>Turkish Journal of Gastroenterology</i> , 2012, 23, 381-384.   | 0.4 | 6         |
| 48 | Epigenetic Rewiring of Monocytes in BCG Vaccination. , 2018, , 109-120.  |     | 3         |
| 49 | Altered Ex-Vivo Cytokine Responses in Children With Asymptomatic Plasmodium falciparum Infection in Burkina Faso: An Additional Argument to Treat Asymptomatic Malaria?. <i>Frontiers in Immunology</i> , 2021, 12, 614817.                      | 2.2 | 3         |
| 50 | Adaptive Characteristics of Innate Immune Responses in Macrophages. , 0, , 679-686.  |     | 0         |
| 51 | P087â€¦The anti-inflammatory cytokine interleukin 37 is an endogenous inhibitor of trained immunity. , 2019, , .   |     | 0         |
| 52 | THU0010â€¦THE ANTI-INFLAMMATORY CYTOKINE INTERLEUKIN 37 IS AN ENDOGENOUS INHIBITOR OF TRAINED IMMUNITY. , 2019, , .  |     | 0         |