# Xiangmei Zhou

List of Publications by Year
in descending order



| 92 | 2,344 | 236833 25 | 265120 42 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 98 | 98 | 98 | 3324 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The role of mitochondria in NLRP3 inflammasome activation. Molecular Immunology, 2018, 103, 115-124. | 1.0 | 297 |
| 2 | The NALP3 inflammasome is involved in neurotoxic prion peptide-induced microglial activation. Journal of Neuroinflammation, 2012, 9, 73. | 3.1 | 89 |
| 3 | The Role of the Gut Microbiota in the Pathogenesis of Parkinson's Disease. Frontiers in Neurology, 2019, 10, 1155. | 1.1 | 89 |
| 4 | The NLRP3-Caspase 1 Inflammasome Negatively Regulates Autophagy via TLR4-TRIF in Prion Peptide-Infected Microglia. Frontiers in Aging Neuroscience, 2018, 10, 116. | 1.7 | 75 |
| 5 | miRNAs in Tuberculosis: New Avenues for Diagnosis and Host-Directed Therapy. Frontiers in Microbiology, 2018, 9, 602. | 1.5 | 73 |
| 6 | Overexpression of matrix metalloproteinaseâ€9 in breast cancer cell lines remarkably increases the cell malignancy largely via activation of transforming growth factor beta/SMAD signalling. Cell Proliferation, 2019, 52, e12633. | 2.4 | 68 |
| 7 | A Comprehensive Survey of Single Nucleotide Polymorphisms (SNPs) across Mycobacterium bovis Strains and M. bovis BCG Vaccine Strains Refines the Genealogy and Defines a Minimal Set of SNPs That Separate Virulent M. bovis Strains and M. bovis BCG Strains. Infection and Immunity, 2009, 77, 2230-2238. | 1.0 | 67 |
| 8 | The Roles of Endoplasmic Reticulum in NLRP3 Inflammasome Activation. Cells, 2020, 9, 1219. | 1.8 | 66 |
| 9 | The role of IL-10 in Mycobacterium avium subsp. paratuberculosis infection. Cell Communication and Signaling, 2016, 14, 29. | 2.7 | 65 |
| 10 | The AIM2 Inflammasome Is Involved in Macrophage Activation During Infection With Virulent Mycobacterium bovis Strain. Journal of Infectious Diseases, 2013, 208, 1849-1858. | 1.9 | 58 |
| 11 | Matrix metalloproteinases: Expression, regulation and role in the immunopathology of tuberculosis. Cell Proliferation, 2019, 52, e12649. | 2.4 | 54 |
| 12 | c-Abl Tyrosine Kinase Mediates Neurotoxic Prion Peptide-Induced Neuronal Apoptosis via Regulating Mitochondrial Homeostasis. Molecular Neurobiology, 2014, 49, 1102-1116. | 1.9 | 50 |
| 13 | The role of mitophagy in innate immune responses triggered by mitochondrial stress. Cell Communication and Signaling, 2020, 18, 186. | 2.7 | 48 |
| 14 | Mycobacterium bovis Induces Endoplasmic Reticulum Stress Mediated-Apoptosis by Activating IRF3 in a Murine Macrophage Cell Line. Frontiers in Cellular and Infection Microbiology, 2016, 6, 182. | 1.8 | 47 |
| 15 | Defensins: The Case for Their Use against Mycobacterial Infections. Journal of Immunology Research, 2016, 2016, 1-9. | 0.9 | 41 |
| 16 | OPA1 overexpression ameliorates mitochondrial cristae remodeling, mitochondrial dysfunction, and neuronal apoptosis in prion diseases. Cell Death and Disease, 2019, 10, 710. | 2.7 | 41 |
| 17 | Virulent Mycobacterium bovis Beijing Strain Activates the NLRP7 Inflammasome in THP-1 Macrophages. PLoS ONE, 2016, 11, e0152853. | 1.1 | 34 |
| 18 | Implications of gut microbiota dysbiosis and metabolic changes in prion disease. Neurobiology of Disease, 2020, 135, 104704. | 2.1 | 33 |

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|---|---|---|---|
| 19 | The Central Role of IFI204 in IFN-Î² Release and Autophagy Activation during Mycobacterium bovis Infection. Frontiers in Cellular and Infection Microbiology, 2017, 7, 169. | 1.8 | 32 |
| 20 | p75NTR activation of NF-ÎºB is involved in PrP106-126-induced apoptosis in mouse neuroblastoma cells. Neuroscience Research, 2008, 62, 9-14. | 1.0 | 30 |
| 21 | Nilotinib: A Tyrosine Kinase Inhibitor Mediates Resistance to Intracellular Mycobacterium Via Regulating Autophagy. Cells, 2019, 8, 506. | 1.8 | 30 |
| 22 | <scp>DLP</scp>1â€dependent mitochondrial fragmentation and redistribution mediate prionâ€associated mitochondrial dysfunction and neuronal death. Aging Cell, 2018, 17, e12693. | 3.0 | 29 |
| 23 | MicroRNA 27a-3p Regulates Antimicrobial Responses of Murine Macrophages Infected by Mycobacterium avium subspecies paratuberculosis by Targeting Interleukin-10 and TGF-Î²-Activated Protein Kinase 1 Binding Protein 2. Frontiers in Immunology, 2017, 8, 1915. | 2.2 | 29 |
| 24 | Comparative Study of the Molecular Basis of Pathogenicity of M. bovis Strains in a Mouse Model. International Journal of Molecular Sciences, 2019, 20, 5. | 1.8 | 29 |
| 25 | Aspirin inhibits cytotoxicity of prion peptide PrP106-126 to neuronal cells associated with microglia activation in vitro. Journal of Neuroimmunology, 2008, 199, 10-17. | 1.1 | 28 |
| 26 | MicroRNA-199a Inhibits Cellular Autophagy and Downregulates IFN-Î² Expression by Targeting TBK1 in Mycobacterium bovis Infected Cells. Frontiers in Cellular and Infection Microbiology, 2018, 8, 238. | 1.8 | 28 |
| 27 | Effect of recombinant Mce4A protein of Mycobacterium bovis on expression of TNF-Î±, iNOS, IL-6, and IL-12 in bovine alveolar macrophages. Molecular and Cellular Biochemistry, 2007, 302, 1-7. | 1.4 | 27 |
| 28 | CD36 Participates in PrP106â€“126-Induced Activation of Microglia. PLoS ONE, 2012, 7, e30756. | 1.1 | 25 |
| 29 | Phagolysosome maturation of macrophages was reduced by PE_PGRS 62 protein expressing in Mycobacterium smegmatis and induced in IFN-Î³ priming. Veterinary Microbiology, 2012, 160, 117-125. | 0.8 | 23 |
| 30 | Cellular Prion Protein Participates in the Regulation of Inflammatory Response and Apoptosis in BV2 Microglia During Infection with Mycobacterium bovis. Journal of Molecular Neuroscience, 2013, 51, 118-126. | 1.1 | 23 |
| 31 | Death Receptor 6 and Caspase-6 Regulate Prion Peptide-Induced Axonal Degeneration in Rat Spinal Neurons. Journal of Molecular Neuroscience, 2015, 56, 966-976. | 1.1 | 23 |
| 32 | Prion Protein Participates in the Protection of Mice from Lipopolysaccharide Infection by Regulating the Inflammatory Process. Journal of Molecular Neuroscience, 2015, 55, 279-287. | 1.1 | 23 |
| 33 | HDAC6 alleviates prion peptide-mediated neuronal death via modulating PI3K-Akt-mTOR pathway. Neurobiology of Aging, 2016, 37, 91-102. | 1.5 | 23 |
| 34 | AIM2 inhibits autophagy and IFN-Î² production during M. bovis infection. Oncotarget, 2016, 7, 46972-46987. | 0.8 | 21 |
| 35 | REST alleviates neurotoxic prion peptide-induced synaptic abnormalities, neurofibrillary degeneration and neuronal death partially via LRP6-mediated Wnt-Î²-catenin signaling. Oncotarget, 2016, 7, 12035-12052. | 0.8 | 21 |
| 36 | The isolation and molecular characterization of Mycobacterium avium subsp. paratuberculosis in Shandong province, China. Gut Pathogens, 2016, 8, 9. | 1.6 | 20 |

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| 37 | Lithium alleviates neurotoxic prion peptide-induced synaptic damage and neuronal death partially by the upregulation of nuclear target REST and the restoration of Wnt signaling. Neuropharmacology, 2017, 123, 332-348. | 2.0 | 20 |
| 38 | Endoplasmic Reticulum Stress Induces Macrophages to Produce IL-1Î² During Mycobacterium bovis Infection via a Positive Feedback Loop Between Mitochondrial Damage and Inflammasome Activation. Frontiers in Immunology, 2019, 10, 268. | 2.2 | 20 |
| 39 | Prion protein participates in the regulation of classical and alternative activation of <scp>BV</scp>2 microglia. Journal of Neurochemistry, 2013, 124, 168-174. | 2.1 | 19 |
| 40 | Melatonin regulates mitochondrial dynamics and alleviates neuron damage in prion diseases. Aging, 2020, 12, 11139-11151. | 1.4 | 19 |
| 41 | Effects of Mycobacterium bovis on monocyte-derived macrophages from bovine tuberculosis infection and healthy cattle. FEMS Microbiology Letters, 2011, 321, 30-36. | 0.7 | 18 |
| 42 | Cellular Prion Protein (PrPC) of the Neuron Cell Transformed to a PK-Resistant Protein Under Oxidative Stress, Comprising Main Mitochondrial Damage in Prion Diseases. Journal of Molecular Neuroscience, 2013, 51, 219-224. | 1.1 | 18 |
| 43 | Mycobacterium bovis induces mitophagy to suppress host xenophagy for its intracellular survival. Autophagy, 2022, 18, 1401-1415. | 4.3 | 18 |
| 44 | Inflammasomes-dependent regulation of IL-1Î² secretion induced by the virulent Mycobacterium bovis Beijing strain in THP-1 macrophages. Antonie Van Leeuwenhoek, 2015, 108, 163-171. | 0.7 | 17 |
| 45 | Transcriptome changes upon in vitro challenge with Mycobacterium bovis in monocyte-derived macrophages from bovine tuberculosis-infected and healthy cows. Veterinary Immunology and Immunopathology, 2015, 163, 146-156. | 0.5 | 17 |
| 46 | cGAS/STING/TBK1/IRF3 Signaling Pathway Activates BMDCs Maturation Following Mycobacterium bovis Infection. International Journal of Molecular Sciences, 2019, 20, 895. | 1.8 | 17 |
| 47 | The endoplasmic reticulum stress response: A link with tuberculosis?. Tuberculosis, 2016, 97, 52-56. | 0.8 | 16 |
| 48 | Cellular prion protein released on exosomes from macrophages binds to Hsp70. Acta Biochimica Et Biophysica Sinica, 2010, 42, 345-350. | 0.9 | 15 |
| 49 | Proteomic Analysis of Protein Expression Throughout Disease Progression in a Mouse Model of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2015, 47, 915-926. | 1.2 | 15 |
| 50 | Toll-Like Receptor 2 Deficiency Shifts PrP106-126-Induced Microglial Activation from a Neurotoxic to a Neuroprotective Phenotype. Journal of Molecular Neuroscience, 2015, 55, 880-890. | 1.1 | 15 |
| 51 | IFN-Î²: A Contentious Player in Hostâ€“Pathogen Interaction in Tuberculosis. International Journal of Molecular Sciences, 2017, 18, 2725. | 1.8 | 15 |
| 52 | Differences in pathogenicity of three animal isolates of Mycobacterium species in a mouse model. PLoS ONE, 2017, 12, e0183666. | 1.1 | 15 |
| 53 | Downregulation of the Repressor Element 1-Silencing Transcription Factor (REST) Is Associated with Akt-mTOR and Wnt-Î²-Catenin Signaling in Prion Diseases Models. Frontiers in Molecular Neuroscience, 2017, 10, 128. | 1.4 | 14 |
| 54 | Inhibition of type I interferon signaling abrogates early Mycobacterium bovis infection. BMC Infectious Diseases, 2019, 19, 1031. | 1.3 | 14 |

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| 55 | Induction of macrophage migration by neurotoxic prion protein fragment. Journal of Neuroscience Methods, 2009, 181, 1-5. | 1.3 | 12 |
| 56 | Antibody-Mediated Inhibition of Integrin Î±5Î²1 Blocks Neurotoxic Prion Peptide PrP106â€“126-Induced Activation of BV2 Microglia. Journal of Molecular Neuroscience, 2012, 48, 248-252. | 1.1 | 12 |
| 57 | Protein misfolding cyclic amplification induces the conversion of recombinant prion protein to PrP oligomers causing neuronal apoptosis. Journal of Neurochemistry, 2015, 133, 722-729. | 2.1 | 12 |
| 58 | Immunoregulatory and Antimicrobial Activity of Bovine Neutrophil Î²-Defensin-5-Loaded PLGA Nanoparticles against Mycobacterium bovis. Pharmaceutics, 2020, 12, 1172. | 2.0 | 12 |
| 59 | BCG vaccination strategies against tuberculosis: updates and perspectives. Human Vaccines and Immunotherapeutics, 2024, 17, 5284-5295. | 1.4 | 12 |
| 60 | Cloning and characterization of full-length coding sequence (CDS) of the ovine 37/67-kDa laminin receptor (RPSA). Molecular Biology Reports, 2009, 36, 2131-2137. | 1.0 | 11 |
| 61 | Comparison of mRNA Expression Patterns of Class B Scavenger Receptors in BV2 Microglia upon Exposure to Amyloidogenic Fragments of Beta-Amyloid and Prion Proteins. DNA and Cell Biology, 2011, 30, 893-897. | 0.9 | 11 |
| 62 | Prion Peptide PrP106-126 Induces Inducible Nitric Oxide Synthase and Proinflammatory Cytokine Gene Expression Through the Activation of NF-ÎºB in Macrophage Cells. DNA and Cell Biology, 2012, 31, 833-838. | 0.9 | 10 |
| 63 | Sodium Butyrate Abrogates the Growth and Pathogenesis of Mycobacterium bovis via Regulation of Cathelicidin (LL37) Expression and NF-ÎºB Signaling. Frontiers in Microbiology, 2020, 11, 433. | 1.5 | 10 |
| 64 | The Roles of Inflammasomes in Host Defense against Mycobacterium tuberculosis. Pathogens, 2021, 10, 120. | 1.2 | 10 |
| 65 | The Cellular Prion Protein Negatively Regulates Phagocytosis and Cytokine Expression in Murine Bone Marrow-Derived Macrophages. PLoS ONE, 2014, 9, e102785. | 1.1 | 10 |
| 66 | IFN-Î³promotes THP-1 cell apoptosis during early infection withMycobacterium bovisby activating different apoptotic signaling. FEMS Immunology and Medical Microbiology, 2010, 60, 191-198. | 2.7 | 9 |
| 67 | Expression Pattern of Interferon-Inducible Transcriptional Genes in Neutrophils During Bovine Tuberculosis Infection. DNA and Cell Biology, 2013, 32, 480-486. | 0.9 | 9 |
| 68 | Parkin Overexpression Ameliorates PrP106â€“126-Induced Neurotoxicity via Enhanced Autophagy in N2a Cells. Cellular and Molecular Neurobiology, 2017, 37, 717-728. | 1.7 | 9 |
| 69 | Prion protein is essential for the RE1 silencing transcription factor (REST)-dependent developmental switch in synaptic NMDA receptors. Cell Death and Disease, 2018, 9, 541. | 2.7 | 9 |
| 70 | Inhibition of phagocytosis reduced the classical activation of BV2 microglia induced by amyloidogenic fragments of beta-amyloid and prion proteins. Acta Biochimica Et Biophysica Sinica, 2013, 45, 973-978. | 0.9 | 7 |
| 71 | Isolation and identification of multiple drug resistant nontuberculous mycobacteria from organs of cattle produced typical granuloma lesions. Microbial Pathogenesis, 2017, 107, 313-316. | 1.3 | 7 |
| 72 | PP2 and piceatannol inhibit PrP<sub>106–126</sub>-induced iNOS activation mediated by CD36 in BV2 microglia. Acta Biochimica Et Biophysica Sinica, 2013, 45, 763-772. | 0.9 | 6 |

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|---|---|---|---|
| 73 | Kallikrein 12 Regulates Innate Resistance of Murine Macrophages against Mycobacterium bovis Infection by Modulating Autophagy and Apoptosis. Cells, 2019, 8, 415. | 1.8 | 6 |
| 74 | Recombinant ArgF PLGA nanoparticles enhances BCG induced immune responses against Mycobacterium bovis infection. Biomedicine and Pharmacotherapy, 2021, 137, 111341. | 2.5 | 6 |
| 75 | Gut dysbacteriosis attenuates resistance to Mycobacterium bovis infection by decreasing cyclooxygenase 2 to inhibit endoplasmic reticulum stress. Emerging Microbes and Infections, 2022, 11, 1806-1818. | 3.0 | 6 |
| 76 | Combinatory FK506 and Minocycline Treatment Alleviates Prion-Induced Neurodegenerative Events via Caspase-Mediated MAPK-NRF2 Pathway. International Journal of Molecular Sciences, 2019, 20, 1144. | 1.8 | 5 |
| 77 | PP2Ac Modulates AMPK-Mediated Induction of Autophagy in Mycobacterium bovisâ€"Infected Macrophages. International Journal of Molecular Sciences, 2019, 20, 6030. | 1.8 | 5 |
| 78 | Caspase-1 inhibits IFN-Î² production via cleavage of cGAS during M. bovis infection. Veterinary Microbiology, 2021, 258, 109126. | 0.8 | 5 |
| 79 | Apoptotic caspases suppress Mycobacterium bovis-induced IFN-Î² production in murine macrophage. Journal of Infection, 2021, 83, 61-68. | 1.7 | 5 |
| 80 | Intranasal bovine Î²-defensin-5 enhances antituberculosis immunity in a mouse model by a novel protein-based respiratory mucosal vaccine. Virulence, 2022, 13, 949-962. | 1.8 | 5 |
| 81 | Molecular cloning and polymorphism analysis of the prion protein gene in Tan sheep of Ningxia, China. Gene, 2011, 485, 102-105. | 1.0 | 4 |
| 82 | MycobacteriumBovisOrnithine Carbamoyltransferase, MB1684, Induces Proinflammatory Cytokine Gene Expression by Activating NF-ÎºB in Macrophages. DNA and Cell Biology, 2014, 33, 311-319. | 0.9 | 4 |
| 83 | Mitochondrial Transcription Factor A Regulates Mycobacterium bovisâ€"Induced IFN-Î² Production by Modulating Mitochondrial DNA Replication in Macrophages. Journal of Infectious Diseases, 2019, 221, 438-448. | 1.9 | 4 |
| 84 | Effects of Flaxseed and Multi-Carbohydrase Enzymes on the Cecal Microbiota and Liver Inflammation of Laying Hens. Animals, 2021, 11, 600. | 1.0 | 4 |
| 85 | Koumiss promotes Mycobacterium bovis infection by disturbing intestinal flora and inhibiting endoplasmic reticulum stress. FASEB Journal, 2021, 35, e21777. | 0.2 | 4 |
| 86 | Molecular cloning and sequence analysis of prion protein gene in Xiji donkey in China. Gene, 2013, 529, 345-350. | 1.0 | 3 |
| 87 | Comparative Study of the Growth and Survival of RecombinantMycobacterium smegmatisExpressing Mce4A and Mce4E fromMycobacterium bovis. DNA and Cell Biology, 2015, 34, 125-132. | 0.9 | 3 |
| 88 | Polymorphism analysis of prion protein gene in 11 Pakistani goat breeds. Prion, 2016, 10, 290-304. | 0.9 | 3 |
| 89 | Diversity of glpK Gene and Its Effect on Drug Sensitivity in Mycobacterium bovis. Infection and Drug Resistance, 2022, Volume 15, 1467-1475. | 1.1 | 3 |
| 90 | Prokaryotic expression and functional analysis of the Mb1514 gene in Mycobacterium bovis. Molecular and Cellular Biochemistry, 2014, 385, 43-52. | 1.4 | 2 |

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|---|---|---|---|
| 91 | Global quantitative phosphoproteome reveals phosphorylation network of bovine lung tissue altered by Mycobacterium bovis. Microbial Pathogenesis, 2020, 147, 104402. | 1.3 | 2 |
| 92 | Influence of PrP 106â€“126 on expression of laminin and fibronectin in astrocyte. Science Bulletin, 2008, 53, 2160-2164. | 4.3 | 1 |