# Young-Ki Choi

## List of Publications by Year in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 106 papers | 4,447 citations | 136950 32 h-index | 128289 60 g-index |
| 116 all docs | 116 docs citations | 116 times ranked | 8219 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Infection and Rapid Transmission of SARS-CoV-2 in Ferrets. Cell Host and Microbe, 2020, 27, 704-709.e2. | 11.0 | 815 |
| 2 | A therapeutic neutralizing antibody targeting receptor binding domain of SARS-CoV-2 spike protein. Nature Communications, 2021, 12, 288. | 12.8 | 224 |
| 3 | Viable SARS-CoV-2 in various specimens from COVID-19 patients. Clinical Microbiology and Infection, 2020, 26, 1520-1524. | 6.0 | 180 |
| 4 | Environmental Contamination and Viral Shedding in MERS Patients During MERS-CoV Outbreak in South Korea. Clinical Infectious Diseases, 2016, 62, 755-760. | 5.8 | 165 |
| 5 | Antiviral Efficacies of FDA-Approved Drugs against SARS-CoV-2 Infection in Ferrets. MBio, 2020, 11, . | 4.1 | 165 |
| 6 | The Polymerase Acidic Protein Gene of Influenza A Virus Contributes to Pathogenicity in a Mouse Model. Journal of Virology, 2009, 83, 12325-12335. | 3.4 | 149 |
| 7 | Rapid and simple colorimetric detection of multiple influenza viruses infecting humans using a reverse transcriptional loop-mediated isothermal amplification (RT-LAMP) diagnostic platform. BMC Infectious Diseases, 2019, 19, 676. | 2.9 | 144 |
| 8 | Continuing evolution of H9 influenza viruses in Korean poultry. Virology, 2007, 359, 313-323. | 2.4 | 106 |
| 9 | Pathobiological features of a novel, highly pathogenic avian influenza A(H5N8) virus. Emerging Microbes and Infections, 2014, 3, 1-13. | 6.5 | 106 |
| 10 | Neutralizing Antibody Production in Asymptomatic and Mild COVID-19 Patients, in Comparison with Pneumonic COVID-19 Patients. Journal of Clinical Medicine, 2020, 9, 2268. | 2.4 | 106 |
| 11 | One-Pot Reverse Transcriptional Loop-Mediated Isothermal Amplification (RT-LAMP) for Detecting MERS-CoV. Frontiers in Microbiology, 2016, 7, 2166. | 3.5 | 99 |
| 12 | Severe fever with thrombocytopenia syndrome virus: emerging novel phlebovirus and their control strategy. Experimental and Molecular Medicine, 2021, 53, 713-722. | 7.7 | 80 |
| 13 | Infection-specific phosphorylation of glutamyl-prolyl tRNA synthetase induces antiviral immunity. Nature Immunology, 2016, 17, 1252-1262. | 14.5 | 76 |
| 14 | Crucial Roles of Interleukin-7 in the Development of T Follicular Helper Cells and in the Induction of Humoral Immunity. Journal of Virology, 2014, 88, 8998-9009. | 3.4 | 68 |
| 15 | Ferret animal model of severe fever with thrombocytopenia syndrome phlebovirus for human lethal infection and pathogenesis. Nature Microbiology, 2019, 4, 438-446. | 13.3 | 66 |
| 16 | Genetic and pathogenic diversity of severe fever with thrombocytopenia syndrome virus (SFTSV) in South Korea. JCI Insight, 2020, 5, . | 5.0 | 58 |
| 17 | Novel Highly Pathogenic Avian A(H5N2) and A(H5N8) Influenza Viruses of Clade 2.3.4.4 from North America Have Limited Capacity for Replication and Transmission in Mammals. MSphere, 2016, 1, . | 2.9 | 56 |
| 18 | Profiling and Characterization of Influenza Virus N1 Strains Potentially Resistant to Multiple Neuraminidase Inhibitors. Journal of Virology, 2015, 89, 287-299. | 3.4 | 54 |

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|---|---|---|---|
| 19 | Critical role of neutralizing antibody for SARS-CoV-2 reinfection and transmission. Emerging Microbes and Infections, 2021, 10, 152-160. | 6.5 | 54 |
| 20 | Molecular genomic characterization of tick- and human-derived severe fever with thrombocytopenia syndrome virus isolates from South Korea. PLoS Neglected Tropical Diseases, 2017, 11, e0005893. | 3.0 | 54 |
| 21 | Development of a SFTSV DNA vaccine that confers complete protection against lethal infection in ferrets. Nature Communications, 2019, 10, 3836. | 12.8 | 51 |
| 22 | Epidemiology of severe fever and thrombocytopenia syndrome virus infection and the need for therapeutics for the prevention. Clinical and Experimental Vaccine Research, 2018, 7, 43. | 2.2 | 47 |
| 23 | Severe fever with thrombocytopenia syndrome phlebovirus non-structural protein activates TPL2 signalling pathway for viral immunopathogenesis. Nature Microbiology, 2019, 4, 429-437. | 13.3 | 46 |
| 24 | Therapeutic effect of CT-P59 against SARS-CoV-2 South African variant. Biochemical and Biophysical Research Communications, 2021, 566, 135-140. | 2.1 | 46 |
| 25 | Genetic characterisation of novel, highly pathogenic avian influenza (HPAI) H5N6 viruses isolated in birds, South Korea, November 2016. Eurosurveillance, 2017, 22, . | 7.0 | 44 |
| 26 | Unique Determinants of Neuraminidase Inhibitor Resistance among N3, N7, and N9 Avian Influenza Viruses. Journal of Virology, 2015, 89, 10891-10900. | 3.4 | 43 |
| 27 | Single-cell transcriptome of bronchoalveolar lavage fluid reveals sequential change of macrophages during SARS-CoV-2 infection in ferrets. Nature Communications, 2021, 12, 4567. | 12.8 | 43 |
| 28 | Ecology of H3 avian influenza viruses in Korea and assessment of their pathogenic potentials. Journal of General Virology, 2008, 89, 949-957. | 2.9 | 42 |
| 29 | Screening for Neuraminidase Inhibitor Resistance Markers among Avian Influenza Viruses of the N4, N5, N6, and N8 Neuraminidase Subtypes. Journal of Virology, 2018, 92, . | 3.4 | 42 |
| 30 | Dynamic changes in host gene expression associated with H5N8 avian influenza virus infection in mice. Scientific Reports, 2015, 5, 16512. | 3.3 | 40 |
| 31 | Safe, high-throughput screening of natural compounds of MERS-CoV entry inhibitors using a pseudovirus expressing MERS-CoV spike protein. International Journal of Antimicrobial Agents, 2018, 52, 730-732. | 2.5 | 40 |
| 32 | Development of Spike Receptor-Binding Domain Nanoparticles as a Vaccine Candidate against SARS-CoV-2 Infection in Ferrets. MBio, 2021, 12, . | 4.1 | 40 |
| 33 | Urinary MicroRNAs of Prostate Cancer: Virus-Encoded hsv1-miRH18 and hsv2-miR-H9-5p Could Be Valuable Diagnostic Markers. International Neurourology Journal, 2015, 19, 74-84. | 1.2 | 40 |
| 34 | Coinfection with SARS-CoV-2 and Influenza A Virus Increases Disease Severity and Impairs Neutralizing Antibody and CD4 <sup>+</sup> T Cell Responses. Journal of Virology, 2022, 96, jvi0187321. | 3.4 | 38 |
| 35 | Viral Mimicry of Interleukin-17A by SARS-CoV-2 ORF8. MBio, 2022, 13, e0040222. | 4.1 | 38 |
| 36 | Schlafen 14 (SLFN14) is a novel antiviral factor involved in the control of viral replication. Immunobiology, 2017, 222, 979-988. | 1.9 | 35 |

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|---|---|---|---|
| 37 | Comparison of the pathogenic potential of highly pathogenic avian influenza (HPAI) H5N6, and H5N8 viruses isolated in South Korea during the 2016â€“2017 winter season. Emerging Microbes and Infections, 2018, 7, 1-10. | 6.5 | 32 |
| 38 | Emergence of Mammalian Species-Infectious and -Pathogenic Avian Influenza H6N5 Virus with No Evidence of Adaptation. Journal of Virology, 2011, 85, 13271-13277. | 3.4 | 31 |
| 39 | Age-dependent pathogenic characteristics of SARS-CoV-2 infection in ferrets. Nature Communications, 2022, 13, 21. | 12.8 | 31 |
| 40 | The immunogenicity and protection effect of an inactivated coxsackievirus A6, A10, and A16 vaccine against hand, foot, and mouth disease. Vaccine, 2018, 36, 3445-3452. | 3.8 | 30 |
| 41 | Animal Models for Influenza Research: Strengths and Weaknesses. Viruses, 2021, 13, 1011. | 3.3 | 30 |
| 42 | Development of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) thermal inactivation method with preservation of diagnostic sensitivity. Journal of Microbiology, 2020, 58, 886-891. | 2.8 | 28 |
| 43 | A packaged paper fluidic-based microdevice for detecting gene expression of influenza A virus. Biosensors and Bioelectronics, 2014, 61, 485-490. | 10.1 | 27 |
| 44 | Clinical characteristics of acute lower respiratory tract infections due to 13 respiratory viruses detected by multiplex PCR in children. Korean Journal of Pediatrics, 2010, 53, 373. | 1.9 | 27 |
| 45 | Cross-genotype protection of live-attenuated vaccine candidate for severe fever with thrombocytopenia syndrome virus in a ferret model. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26900-26908. | 7.1 | 25 |
| 46 | Molecular Signatures of Inflammatory Profile and B-Cell Function in Patients with Severe Fever with Thrombocytopenia Syndrome. MBio, 2021, 12, . | 4.1 | 25 |
| 47 | Avian Influenza A Viruses: Evolution and Zoonotic Infection. Seminars in Respiratory and Critical Care Medicine, 2016, 37, 501-511. | 2.1 | 23 |
| 48 | Genetic and phylogenetic characterizations of a novel genotype of highly pathogenic avian influenza (HPAI) H5N8 viruses in 2016/2017 in South Korea. Infection, Genetics and Evolution, 2017, 53, 56-67. | 2.3 | 23 |
| 49 | Zoonotic infections with avian influenza A viruses and vaccine preparedness: a game of "mix and match". Clinical and Experimental Vaccine Research, 2014, 3, 140. | 2.2 | 22 |
| 50 | Activation of the intrinsic mitochondrial apoptotic pathway in swine influenza virus-mediated cell death. Experimental and Molecular Medicine, 2006, 38, 11-17. | 7.7 | 21 |
| 51 | Seroprevalence and genetic characterization of severe fever with thrombocytopenia syndrome virus in domestic goats in South Korea. Ticks and Tick-borne Diseases, 2018, 9, 1202-1206. | 2.7 | 21 |
| 52 | Establishment of Vero cell RNA polymerase I-driven reverse genetics for Influenza A virus and its application for pandemic (H1N1) 2009 influenza virus vaccine production. Journal of General Virology, 2013, 94, 1230-1235. | 2.9 | 20 |
| 53 | Mouse adaptation of influenza B virus increases replication in the upper respiratory tract and results in droplet transmissibility in ferrets. Scientific Reports, 2015, 5, 15940. | 3.3 | 20 |
| 54 | Development of multiplex rt-PCR assays for rapid detection and subtyping of influenza type A viruses from clinical specimens. Journal of Microbiology and Biotechnology, 2008, 18, 1164-9. | 2.1 | 20 |

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|---|---|---|---|
| 55 | Genomic analysis and pathogenic characteristics of Type 2 porcine reproductive and respiratory syndrome virus nsp2 deletion strains isolated in Korea. Veterinary Microbiology, 2014, 170, 232-245. | 1.9 | 19 |
| 56 | Vaccine Efficacy of Inactivated, Chimeric Hemagglutinin H9/H5N2 Avian Influenza Virus and Its Suitability for the Marker Vaccine Strategy. Journal of Virology, 2017, 91, . | 3.4 | 18 |
| 57 | Greater Efficacy of Black Ginseng (CJ EnerG) over Red Ginseng against Lethal Influenza A Virus Infection. Nutrients, 2019, 11, 1879. | 4.1 | 18 |
| 58 | MDA7/IL-24 is an anti-viral factor that inhibits influenza virus replication. Journal of Microbiology, 2016, 54, 695-700. | 2.8 | 17 |
| 59 | Emerging and re-emerging fatal viral diseases. Experimental and Molecular Medicine, 2021, 53, 711-712. | 7.7 | 17 |
| 60 | Cross-protective efficacies of highly-pathogenic avian influenza H5N1 vaccines against a recent H5N8 virus. Virology, 2016, 498, 36-43. | 2.4 | 16 |
| 61 | Transcriptomic features of primary prostate cancer and their prognostic relevance to castration-resistant prostate cancer. Oncotarget, 2017, 8, 114845-114855. | 1.8 | 16 |
| 62 | Evaluation of heterosubtypic cross-protection against highly pathogenic H5N1 by active infection with human seasonal influenza A virus or trivalent inactivated vaccine immunization in ferret models. Journal of General Virology, 2014, 95, 793-798. | 2.9 | 15 |
| 63 | Delayed hypersensitivity reaction resulting in maculopapular-type eruption due to entecavir in the treatment of chronic hepatitis B. World Journal of Gastroenterology, 2014, 20, 15931. | 3.3 | 15 |
| 64 | Generation of a High-Growth Influenza Vaccine Strain in MDCK Cells for Vaccine Preparedness. Journal of Microbiology and Biotechnology, 2018, 28, 997-1006. | 2.1 | 15 |
| 65 | Intranasal administration of poly-gamma glutamate induced antiviral activity and protective immune responses against H1N1 influenza A virus infection. Virology Journal, 2015, 12, 160. | 3.4 | 14 |
| 66 | Comparison of the virulence and transmissibility of canine H3N2 influenza viruses and characterization of their canine adaptation factors. Emerging Microbes and Infections, 2018, 7, 1-14. | 6.5 | 14 |
| 67 | Shedding and Transmission Modes of Severe Fever With Thrombocytopenia Syndrome Phlebovirus in a Ferret Model. Open Forum Infectious Diseases, 2019, 6, . | 0.9 | 14 |
| 68 | Targeting Antigens for Universal Influenza Vaccine Development. Viruses, 2021, 13, 973. | 3.3 | 14 |
| 69 | Rapid acquisition of polymorphic virulence markers during adaptation of highly pathogenic avian influenza H5N8 virus in the mouse. Scientific Reports, 2017, 7, 40667. | 3.3 | 13 |
| 70 | An inactivated hand-foot-and-mouth disease vaccine using the enterovirus 71 (C4a) strain isolated from a Korean patient induces a strong immunogenic response in mice. PLoS ONE, 2017, 12, e0178259. | 2.5 | 13 |
| 71 | Altered virulence of Highly Pathogenic Avian Influenza (HPAI) H5N8 reassortant viruses in mammalian models. Virulence, 2018, 9, 133-148. | 4.4 | 13 |
| 72 | Experimental Animal Models of Coronavirus Infections: Strengths and Limitations. Immune Network, 2021, 21, e12. | 3.6 | 12 |

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|---|---|---|---|
| 73 | Increased Expression of Herpes Virus-Encoded hsv1-miR-H18 and hsv2-miR-H9-5p in Cancer-Containing Prostate Tissue Compared to That in Benign Prostate Hyperplasia Tissue. International Neurourology Journal, 2016, 20, 122-130. | 1.2 | 12 |
| 74 | FRET-based hACE2 receptor mimic peptide conjugated nanoprobe for simple detection of SARS-CoV-2. Chemical Engineering Journal, 2022, 442, 136143. | 12.7 | 12 |
| 75 | Evaluation of the zoonotic potential of a novel reassortant H1N2 swine influenza virus with gene constellation derived from multiple viral sources. Infection, Genetics and Evolution, 2015, 34, 378-393. | 2.3 | 11 |
| 76 | Genetic characteristics of highly pathogenic H5N8 avian influenza viruses isolated from migratory wild birds in South Korea during 2014-2015. Archives of Virology, 2016, 161, 2749-2764. | 2.1 | 11 |
| 77 | An I436N substitution confers resistance of influenza A(H1N1)pdm09 viruses to multiple neuraminidase inhibitors without affecting viral fitness. Journal of General Virology, 2018, 99, 292-302. | 2.9 | 11 |
| 78 | Genetic diversity and pathogenic potential of low pathogenic H7 avian influenza viruses isolated from wild migratory birds in Korea. Infection, Genetics and Evolution, 2016, 45, 268-284. | 2.3 | 10 |
| 79 | Evaluation of the Immune Responses to and Cross-Protective Efficacy of Eurasian H7 Avian Influenza Viruses. Journal of Virology, 2017, 91, . | 3.4 | 10 |
| 80 | A Novel Neuraminidase-Dependent Hemagglutinin Cleavage Mechanism Enables the Systemic Spread of an H7N6 Avian Influenza Virus. MBio, 2019, 10, . | 4.1 | 10 |
| 81 | Systems Biology-Based Platforms to Accelerate Research of Emerging Infectious Diseases. Yonsei Medical Journal, 2018, 59, 176. | 2.2 | 9 |
| 82 | Injectable and Pathogenâ€Mimicking Hydrogels for Enhanced Protective Immunity against Emerging and Highly Pathogenic Influenza Virus. Small, 2016, 12, 6279-6288. | 10.0 | 8 |
| 83 | Serologic Evaluation of Healthcare Workers Caring for COVID-19 Patients in the Republic of Korea. Frontiers in Microbiology, 2020, 11, 587613. | 3.5 | 8 |
| 84 | Assessment of mOMV adjuvant efficacy in the pathogenic H1N1 influenza virus vaccine. Clinical and Experimental Vaccine Research, 2014, 3, 194. | 2.2 | 7 |
| 85 | Preclinical evaluation of the efficacy of an H5N8 vaccine candidate (IDCDC-RG43A) in mouse and ferret models for pandemic preparedness. Vaccine, 2019, 37, 484-493. | 3.8 | 7 |
| 86 | Pathogenic assessment of avian influenza viruses in migratory birds. Emerging Microbes and Infections, 2021, 10, 565-577. | 6.5 | 7 |
| 87 | Humoral and cellular immune response to Plasmodium vivax VIR recombinant and synthetic antigens in individuals naturally exposed to P. vivax in the Republic of Korea. Malaria Journal, 2021, 20, 288. | 2.3 | 7 |
| 88 | Antiviral effects of human placenta hydrolysate (LaennecÂ®) against SARS-CoV-2 in vitro and in the ferret model. Journal of Microbiology, 2021, 59, 1056-1062. | 2.8 | 7 |
| 89 | In Vitro and In Vivo Characterization of Novel Neuraminidase Substitutions in Influenza A(H1N1)pdm09 Virus Identified Using Laninamivir-Mediated In Vitro Selection. Journal of Virology, 2019, 93, . | 3.4 | 6 |
| 90 | Eyedrop Vaccination Induced Systemic and Mucosal Immunity against Influenza Virus in Ferrets. PLoS ONE, 2016, 11, e0157634. | 2.5 | 5 |

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|---|---|---|---|
| 91 | Growth and Pathogenic Potential of Naturally Selected Reassortants after Coinfection with Pandemic H1N1 and Highly Pathogenic Avian Influenza H5N1 Viruses. Journal of Virology, 2016, 90, 616-623. | 3.4 | 4 |
| 92 | Seroprevalence of Severe Fever with Thrombocytopenia Syndrome Phlebovirus in Domesticated Deer in South Korea. Virologica Sinica, 2019, 34, 501-507. | 3.0 | 4 |
| 93 | Development of a rapid, simple and efficient one-pot cloning method for a reverse genetics system of broad subtypes of influenza A virus. Scientific Reports, 2019, 9, 8318. | 3.3 | 4 |
| 94 | Avian-derived NS gene segments alter pathogenicity of the A/Puerto Rico/8/34 virus. Virus Research, 2014, 179, 64-72. | 2.2 | 3 |
| 95 | Development of infectious clones of a wild-type Korean rabies virus and evaluation of their pathogenic potential. Virus Research, 2016, 223, 122-130. | 2.2 | 3 |
| 96 | Immunostained plaque assay for detection and titration of rabies virus infectivity. Journal of Virological Methods, 2016, 228, 21-25. | 2.1 | 3 |
| 97 | Efficacy of A/H1N1/2009 split inactivated influenza A vaccine (GC1115) in mice and ferrets. Journal of Microbiology, 2019, 57, 163-169. | 2.8 | 3 |
| 98 | Development of a Rapid Fluorescent Diagnostic System to Detect Subtype H9 Influenza A Virus in Chicken Feces. International Journal of Molecular Sciences, 2021, 22, 8823. | 4.1 | 3 |
| 99 | Inhibition of a broad range of SARS-CoV-2 variants by antiviral phytochemicals in hACE2 mice. Antiviral Research, 2022, 204, 105371. | 4.1 | 3 |
| 100 | Genetic Characteristics and Phylogenetic Analysis of Influenza Type B Viruses Isolated from Nasopharyngeal Suction Samples of Korean Patients. Journal of Bacteriology and Virology, 2009, 39, 125. | 0.1 | 2 |
| 101 | Differences in seroprevalence between epicenter and non-epicenter areas of the COVID-19 outbreak in South Korea. Journal of Microbiology, 2021, 59, 530-533. | 2.8 | 2 |
| 102 | Enhanced neutralizing antibody response induced by inactivated enterovirus 71 in cynomolgus monkeys. PLoS ONE, 2018, 13, e0202552. | 2.5 | 1 |
| 103 | Methods for fighting emerging pathogens. Nature Methods, 2022, , . | 19.0 | 1 |
| 104 | Multiple HA substitutions in highly pathogenic avian influenza H5Nx viruses contributed to the change in the NA subtype preference. Virulence, 2022, 13, 990-1004. | 4.4 | 1 |
| 105 | Infection Route Impacts the Pathogenesis of Severe Fever with Thrombocytopenia Syndrome Virus in Ferrets. Viruses, 2022, 14, 1184. | 3.3 | 1 |
| 106 | Evaluation of global evolutionary variations in the early stage of SARS-CoV-2 pandemic. Heliyon, 2021, 7, e08170. | 3.2 | 0 |