

CHIKUNGUNYA AND OTHER ARBOVIRUS PUBLICATIONS

Chronic joint pain 3 years after chikungunya virus infection largely characterized by relapsing-remitting symptoms

Tritsch SR, Encinales L, Pacheco N, Cadena A, Cure C, McMahon E, Watson H, Ramirez AP, Mendoza AR, Li G, Khurana K, Jaller JJ, Castillo SM, Taborda OB, Char AJ, Avendaño L, Jimenez D, Coba AG, Gomez MA, Orozco DA, Bravo E, Martinez V, Guerra B, Simon G, Firestein GS, Chang AY

Journal of Rheumatology 2020; **47**: 1267-1274; DOI:10.3899/jrheum.190162

Stiffness, pain and joint counts in chronic chikungunya disease: relevance to disability and quality of life

Watson H, Tritsch SR, Encinales L, Cadena A, Cure C, Ramirez AP, Mendoza AR, Chang AY
Clinical Rheumatology 2020; **39**: 1679-1686. doi:10.1007/s10067-019-04919-1

Persistent chikungunya arthritis in Roraima, Brazil

Nogueira Hayd RL, Rodrigues Moreno M, Naveca F, Amdur R, Suchowiecki K, Watson H, Firestein G, Simon G, Chang A

Clinical Rheumatology 2020; **39**: 2781-2787; doi:10.1007/s10067-020-05011-9

What chikungunya teaches us about COVID-19 (Letter)

Simon F, Watson H, Meynard JB, Pommier de Santi V, Tournier JN

Lancet Infectious Diseases 2021; **21**: 1070-1071, doi:10.1016/S1473-3099(21)00272-3

Tender and swollen joint counts are poorly associated with disability in chikungunya arthritis compared to rheumatoid arthritis

Watson H, Nogueira-Hayd RL, Rodrigues-Moreno M, Naveca F, Suchowiecki K, Calusi G, Firestein GS, Simon G, Chang AY

Scientific Reports 2021; **11**: 18578, doi:10.1038/s41598-021-98164-9

Arthralgia resolution rate following chikungunya virus infection

O'Driscoll M, Salje H, Chang AY, Watson H

International Journal of Infectious Diseases 2021; **112**: 1-7, doi:10.1016/j.ijid.2021.08.066

Therapeutic and prophylactic treatment with a virus-specific antibody is highly effective in rodent models of Chikungunya infection and disease.

Julander JG, Anderson N, Haese N, Andoh T, Streblow DN, Cortez P, Carter K, Marniquet X, Watson H, Mandron M

Antiviral Research 2022; **202**: e105295, doi:10.1016/j.antiviral.2022.105295

Household clustering supports a novel chemoprophylaxis trial design for a mosquito-borne viral disease

Watson HR, Duong V, Ly S, Mandron M, Siqueira AM, Ribeiro GS

International Journal of Infectious Diseases 2022; **122**: 169-173, doi:10.1016/j.ijid.2022.05.020

Determinants of health-related quality of life in chronic chikungunya disease in Guadeloupe

Simon F, Bossy R, Federico D, Dezaunay J, Demoux AL, Rugard N, Calusi G, Nizzardo A, Watson H, Gane-Troplent F

Pathogens 2022; **11**: 989. doi:10.3390/pathogens11090989

The Chikungunya virus: A re-emerging cause of acute febrile illness in the high jungle of northern Peru

Aguilar-Luis MA, Watson H, Tarazona-Castro Y, Troyes-Rivera L, Cabellos-Altamirano F, Silva-Caso W, Aquino-Ortega R, Carrillo-Ng H, Zavaleta-Gavidia V, del Valle-Mendoza J

PLoS Neglected Tropical Diseases 2023; **17**: e0011787, doi:10.1371/journal.pntd.0011787

Development of a Chikungunya Arthritis Disease Activity Score (CHIK-DAS) based on a prospective cohort study

Chang AY, Simmens S, Watson H, Amdur RL, Siqueira A, Proctor A, Tritsch S, Gomez CAH, Encinales L, Hernández AS, Mejía JF, Jaller A, Jaller JJ, Amaral JK, Heckler I, Simon GL, Moreland L, Cadena A, Firestein GS

Journal of Cellular Immunology 2024; **6**: 236-246

Global ultrasound synovitis scores reflect symptoms and patient outcomes in chronic chikungunya disease

Watson HR, del Valle-Mendoza J, Aguilar-Luis MA, Aquino-Ortega R, Silva-Caso W, Tarazona-Castro Y, Nizzardo A, Calusi G, Mandron M, Luxemburger C, Puentes E, D'Agostino MA

Rheumatology 2025; **64**: 3352–3360, doi:10.1093/rheumatology/keaf087

Genotypic diversity and molecular characterization of DENV-2 in a Peruvian endemic region between 2016 and 2022: American/Asian genotype displacement

Yordi Tarazona-Castro; Miguel Angel Aguilar-Luis; Wilmer Silva-Caso; Hugh Watson; Victor Zavaleta-Gavidia; Ronald Aquino-Ortega; Luis J. Del Valle, Jorge Bazan-Mayra; Egma Mayta Huatuco, Juana del Valle-Mendoza

Frontiers in Microbiology 2025; **16**: online 28th April 2025, doi:10.3389/fmicb.2025.1558761

Viral kinetics during acute chikungunya virus infection: insights into potential role of monoclonal antibodies in viral clearance and prophylaxis using mathematical modelling

Ou TP, Sorn S, Nguon K, In S, Ken S, Ly S, Flamand C, Voirin N, Mandron M, Watson H, Duong V

Journal of Medical Virology 2025; **97**: e70391, [doi:10.1002/jmv.70391](https://doi.org/10.1002/jmv.70391)

Re: 'Learning from Post COVID-19 condition for epidemic preparedness' by Gorska et al. (Letter to the Editor).

Watson HR

Clinical Microbiology and Infection 2025; **31**: 1603-1604, doi:10.1016/j.cmi.2025.05.020

Temporal cytokine profiling in acute febrile illness reveals distinct immune signatures in Dengue, Zika, Chikungunya, and Mayaro Virus Infections in Northern Peru

del Valle-Mendoza J, Watson H, Tarazona-Castro Y, Silva-Caso W, Aquino-Ortega R, Carrillo-Ng H, Bazan-Mayra J, Zavaleta-Gavidia V, Aguilar-Luis MA

BMC Infectious Diseases 2026; **26**: 321. doi: 10.1186/s12879-026-12537-x

Presentations at Congresses, Symposia and Learned Societies (O = oral, P = poster)

- P Recombinant fully-human mAbs for the prophylaxis and treatment of Chikungunya Virus Disease: an alternative approach
M. Mandron, J Rothblatt, H. Watson, C. Luxemburger, P. Cortez, X. Marniquet, D. Streblow, J.G. Julander, M. Diamond, J.E. Crowe, K. Carter, C. Wells
CEPI Chikungunya Workshop: Chikungunya vaccines- challenges, opportunities and possibilities, Delhi, India, 5th-6th February 2018
- P Fully-human recombinant anti-CHIKV monoclonal antibody with potent therapeutic and prophylactic activities in murine and NHP models of chikungunya virus disease
Cortez P, Mandron M, Rothblatt J, Marniquet X, Boulenc X, Watson H, Sagi D, Luxemburger C, Milla A, Haese N, Broeckel R, Neilson S, Guillemare E, Vicat R, Guenneau S, Esserméant L, Diamond M, Crowe JE, Streblow D, Julander JG, Wells C, Carter K
28th European Congress of Clinical Microbiology and Infectious Disease (ECCMID), Madrid, Spain, 21st-24th April 2018
- P Recombinant Fully-Human Monoclonal Antibodies for Prophylaxis and Treatment of Chikungunya Virus Disease
Cortez P, Mandron M, Rothblatt J, Marniquet X, Boulenc X, Watson H, Sagi D, Luxemburger C, Milla A, Haese N, Broeckel R, Neilson S, Guillemare E, Vicat R, Guenneau S, Esserméant L, Diamond M, Crowe JE, Streblow D, Julander JG, Wells C, Carter K
Global Virus Network Meeting, Annecy, France, 28th-30th November 2018
- O Therapeutic studies in Chikungunya disease: what should we measure?
Watson H
Challenges & Opportunities in Clinical Research in Chikungunya: Generating Evidences for Public Health, Rio de Janeiro, Brazil, 10th May 2019
- O Anti-CHIKV monoclonal antibody project
Watson H
Challenges & Opportunities in Clinical Research in Chikungunya: Generating Evidence for Public Health, Rio de Janeiro, Brazil, 10th May 2019
- P Joint stiffness in Chikungunya disease: distinct from pain and relevant to quality of life.
Watson H, Tritsch SR, Encinales L, Cadena A, Cure C, Ramirez A, Mendoza AR, Chang AY.
EULAR European Congress of Rheumatology, Madrid, Spain, 12th-15th June 2019
- P Post-chikungunya stiffness associated with impaired mobility, discomfort and overall disability
Watson H, Tritsch SR, Encinales L, Cadena A, Cure C, Ramirez A, Mendoza AR, Chang AY.
American Society for Tropical Medicine and Hygiene (ASTMH) 68th Annual Meeting, National Harbor, MD, USA, 20th-24th November 2019
- P SAR440894, a recombinant fully-human mAb for the treatment and prevention of chikungunya virus disease: ready for clinical development
Mandron M, Sartori M, Streblow D, Julander J, Watson H, Cortez P
Immunotherapy for Infectious Diseases congress, Lyon, France, 4th-5th December 2019
- O Challenges of developing of a monoclonal antibody against an arbovirus: a case study in chikungunya disease
Watson H
Immunotherapy for Infectious Diseases conference, Lyon, France, 4th-5th December 2019
- O Challenges in the clinical development of a monoclonal antibody against chikungunya virus
Watson HR
33rd International Conference on Antiviral Research, delivered as an ICAR 2020 Webinar

- P Measures of disease severity and symptoms predict disability and quality of life differently in rheumatoid arthritis and chronic chikungunya disease
Watson H, Nogueira Hayd RL, Rodrigues Moreno M, Naveca F, Amdur R, Suchowiecki K, Calusi G, Firestein G, Simon G, Chang A
EULAR European e-Congress of Rheumatology, Frankfurt, Germany, 3rd-6th June 2020
- P Estimated arthralgia resolution rate in chronic chikungunya disease: a meta-analysis of longitudinal cohort studies
Watson H, Calusi G, Federico D, Pergher M, Chang AY
American Society for Tropical Medicine and Hygiene (ASTMH) 69th Annual Meeting, Toronto, Canada, Online 15th-19th November 2020
- P Clinical lessons from detailed evaluation of a chronic chikungunya cohort in Guadeloupe
Bossy R, Watson H, Federico D, Desaunay AL, Rugard N, Calusi G, Simon F, Gane-Troplent F
American Society for Tropical Medicine and Hygiene (ASTMH) 69th Annual Meeting, Online 15th-19th November 2020
- P Household clustering suggests a novel chemoprophylaxis trial design for an arboviral disease
Watson H, Duong V, Ly S, Ribeiro GS, Siqueira AM, Mandron M
5th Immunotherapy for Infectious Diseases Congress, Lyon, France, 15th-16th November 2021
- P Factors associated with quality of life in chronic chikungunya rheumatism in Guadeloupe
Simon F, Bossy R, Federico D, Demoux, A-L, Dezaunay J, Rugard N, Calusi G, Nizzardo A, Watson H, Gane-Troplent F
American Society for Tropical Medicine and Hygiene (ASTMH) 71st Annual Meeting, Seattle 30th October-3rd November 2022
- P Viral kinetics during acute chikungunya virus infection and the potential for antiviral treatment
Watson H, Voirin N, Duong V, Ly S, Ou TP, Sorn S, Ken S, Mandron M
International Conference of Antiviral Research, Lyon, France, 13th-17th March 2023
- O Chikungunya viral kinetics and the challenge for an antiviral treatment
Watson H, Voirin N, Duong V, Ly S, Ou TP, Sorn S, Ken S, Mandron M
33rd European Congress of Clinical Microbiology and Infectious Disease (ECCMID), Copenhagen, Denmark, 15th-18th April 2023
- P Global ultrasound synovitis score may reflect development of chronic post-chikungunya rheumatism
Watson H, Del Valle J, Silva W, Aguilar M, Miñano M, Gavidia E, Alba G, Nizzardo A, Calusi G, Mandron M, D'Agostino MA
EULAR European Congress of Rheumatology, Milan, Italy, 30th May – 3rd June 2023
- P Identification of the chronic subpopulation in patients affected by acute Chikungunya (CHIK) through an analytical method based on agreement coefficients. An epidemiological case study conducted on adults with acute CHIK in Peru
Nizzardo A, Casamassima C, Calusi G, Federico D, Watson H et al.
44th Conference of the International Society for Clinical Biostatistics, Milan, Italy, 27th-31st August 2023

- P Development of a Chikungunya Arthritis Disease Activity Score
Chang A, Simens S, Watson H, Amdur R, Siqueira A, Proctor A, Tritsch S, Herrera C, Encinales L, Sucerquia A, Jaller A, Jaller JJ, Amaral K, Simon G, Moreland L, Cadena A, Firestein G
American College of Rheumatology (ACR) Annual Convergence meeting, San Diego, USA, 10th-15th November 2023
- P Within-household transmission of chikungunya virus during an outbreak in Cambodia
Ou TP, Duong V, Ly S, Sorn S, Ken S, Flamand C, Yanneth O, Karlsson E, Nizzardo A, Casamassima C, Mandron M, Salje H, Watson H
Epidemics: 9th International Conference on Infectious Disease Dynamics, Bologna, Italy, 28th November – 1st December 2023
- P Serum cytokines and musculoskeletal ultrasound as surrogate markers for chronic post-chikungunya rheumatism
Watson HR, Silva-Caso W, Aquino-Ortega R, Aguilar-Luis MA, Tarazona-Castro Y, Cabellos-Altamirano F, Nizzardo A, Calusi G, Mandron M, D'Agostino MA, Del Valle-Mendoza J
26th Pan-American Congress of Rheumatology, Barranquilla, Colombia, 10th-13th April 2024
- P Prospective evaluation of serum cytokines and musculoskeletal ultrasound as surrogate markers for chronic post-Chikungunya rheumatism
Watson H, Silva-Caso W, Aquino-Ortega R, Aguilar-Luis MA, Tarazona-Castro Y, Cabellos-Altamirano F, Nizzardo A, Calusi G, Mandron M, Del Valle-Mendoza J
34th European Congress of Clinical Microbiology and Infectious Disease (ECCMID), Barcelona, Spain, 27th-30th April 2024
- P Genotypic diversity and molecular characterization of DENV-2 in endemic areas of Peru during 2016-2021
Silva-Caso W, Aguilar-Luis MA, Aquino-Ortega, Tarazona-Castro Y, Cabellos-Altamirano F, Watson H, Del Valle J
34th European Congress of Clinical Microbiology and Infectious Disease (ECCMID), Barcelona, Spain, 27th-30th April 2024
- O Within-household transmission of chikungunya virus during an outbreak in Cambodia
Sorn S, Nguon K, Chhay S, Ken S, Ou TP, Duong V, Watson H, Flamand C, Ly S
21st International Congress for Tropical Medicine and Malaria (ICTMM 2024), Kuching, Malaysia, 19th-23rd September 2024
- P Genotypic diversity and molecular characterization of DENV-2 in a Peruvian endemic region between 2016 and 2022: American/Asian genotype displacement
Tarazona-Castro Y, Aguilar-Luis MA, Silva-Caso W, Aquino-Ortega, Cabellos-Altamirano F, Watson H, Del Valle J
American Society for Tropical Medicine and Hygiene (ASTMH) 73rd Annual Meeting, New Orleans, 13th-17th November 2024
- P Within-household transmission and kinetics of chikungunya virus during an outbreak in Cambodia
Watson H, Sorn S, Nguon K, Chhay S, Ken S, Ou TP, Duong V, Mandron M, Flamand C, Ly S
Colloque I3M 2025 - Infectiology: from molecular to clinical insights
Strasbourg, France, 21st March 2025
- O Chikungunya viral kinetics, transmission and the concept of household antiviral intervention
Watson H, Sorn S, Ou TP, Voirin N, Mandron M, Flamand C, Ly S, Duong V
14th European Congress on Tropical Medicine and International Health (ECTMIH), Hamburg, Germany, 29th September-2nd October 2025

- O First-in-human study of EVT894, a monoclonal antibody against chikungunya virus
Watson H, Miller K, Akber S, Raja S, Jordan L, Mack M, Boulenc X, Mandron M, Gordon M, Jahromi M, Woodson S
36th European Congress of Clinical Microbiology and Infectious Disease (ESCMID Global), Munich, Germany, 17th-21st April 2026

- P First-in-human study of EVT894, a monoclonal antibody against chikungunya virus
Watson H, Miller K, Akber S, Raja S, Jordan L, Mack M, Boulenc X, Mandron M, Gordon M, Jahromi M, Woodson S, Carter K
39th International Congress on Antiviral Research, Prague, Czech Republic, 27thApril-1st May 2026

- O Monoclonal antibodies against arboviruses: Dengue and Chikungunya
Watson H, de Wispelaere M
3rd congress on Arbovirus: Imported Pathogens with Autochthonous Viral Circulation, Rome, Italy, 4th-5th June 2026

- O First-in-human study of EVT894, a monoclonal antibody against chikungunya virus exhibiting a long plasma half-life
Watson H, Miller K, Akber S, Raja S, Jordan L, Mack M, Boulenc X, Mandron M, Gordon M, Jahromi M, Woodson S
4th International Meeting on Arboviruses and Vectors (IMAV 2026), Liverpool, UK, 1st-2nd September 2026

- P First-in-human study of EVT894, a monoclonal antibody against chikungunya virus
Watson H, Miller K, Akber S, Raja S, Jordan L, Mack M, Boulenc X, Mandron M, Gordon M, Jahromi M, Woodson S, Carter K
International Conference on Infectious Diseases, Madrid, Spain, 10th-13th November 2026