

CURRICULUM VITAE

Born: 04/04/1975, Nationality: German

Work Experience

Professor II in Microbiology, Faculty of Technology, Natural Sciences and Maritime Sciences, Department of Microsystems, University of South-Eastern Norway (USN), 09/2021-now

Distinguished Lecturer, University of South-Eastern Norway, 06/2020-now

Professor in Microbiology, Faculty of Health Sciences; Department of Nursing Science, University of South-Eastern Norway (USN) 03/2020-now

Expert Scientific Evaluator NCN National Science Centre of Poland 10/2021-now

Expert Scientific Evaluator Research Council of Norway 08/2020-now

Associate Professor in Microbiology, Faculty of Health Sciences; Department of Nursing Science, University of South-Eastern Norway 08/2015-03/2020

Member at academic council for infection medicine, infection control and immunology for the Southern and Eastern Norway Regional Health Authority (Helse Sør-Øst) 05/2019-08/2020

Expert Scientific Evaluator European commission 08/2019-now

Member of Management Committee, CA18208 - Novel tools for test evaluation and disease prevalence estimation 07/2019-now

Academic responsible for Medical Encyclopedia of Norway 04/2019-now

Member of the Norwegian Scientific Committee for Food and Environment (VKM) (microbial ecology group) 07/2015-09/2018

Head of Department, Department of Environmental and Health Studies, Telemark University College 08/2014-08/2015

Senior-researcher, Norwegian University of Science and Technology NTNU, Faculty of Medicine 2011 – 07/2014

Researcher (postdoctoral), Norwegian University of Science and Technology NTNU, Faculty of Medicine 2008 - 2011

	<p>Researcher (PhD student), National Veterinary Institute Denmark, Department of Virology 2004-2007</p>
Offices	<p>Member of the European Food Safety Authority (EFSA) database for experts (2012-2014)</p> <p>Deputy Member of the Faculty Board and the appointment committee at the Faculty of Medicine (2012-2013)</p> <p>Lay judge in Sør-Trøndelag District Court (2013-2016) and Telemark District Court (2016-2019)</p>
Education	<p>Management training BI Norwegian School, Trondheim 08.2011 to 05.2012</p> <p>Academic leadership NTNU 09.2011 to 02.2012</p> <p>Ph.D. in Virology University of Copenhagen 2004 -2008</p> <p>Master of Philosophy in Biomedicine University of Tromsø 2002 -2004</p> <p>Diplom-Ingenieur (german degree) in chemistry and biotechnology University of Applied Sciences Aachen 1996-2002</p> <p>Biological-laboratory-technician (Bioengineering) Rheinische Akademie Köln (Germany) 1992 - 1995</p>
Financing awards	<p>HORIZON-CL5-2021-D6-01, HEALTHY SAILING partner & WP leader, (2022-2026)</p> <p>«Unravelling Data for Rapid Evidence-Based Response to COVID-19», partner, EU HORIZON2020 (2020-2022)</p> <p>COST ACTION CA18208, Novel tools for test evaluation and disease prevalence estimation, (2019- 2026), MC-member</p> <p>Norsk Vannteknologi AS, Dermasan som virusbeskyttelse for folk flest, project leader, RFF Viken (2020-2021)</p> <p>Skien municipality, The quest to make the home a safe treatment site – the relevance of disease-causing microbes, project leader, Oslofjordfondet (2020-2021)</p> <p>Martina Hansens Hospital, Complex surgical instruments, project leader (2018)</p>

Financing awards(cont.)	<p>Innolabs, Infection prevention in SMART textiles, project leader, EU FP7 (2017)</p> <p>Færder municipality, Use of assistive technology and interactive therapeutic robots in nursing homes and infection prevention, project leader, Oslofjordfondet (2017-2018), project leader</p> <p>Research grants older than 2017:</p> <ul style="list-style-type: none"> ○ NTNU / LBK (2013), project leader ○ Research funding from NTNU / LBK (2012) , project leader ○ Research funding from St. Olav's Hospital (2012) , project leader ○ Research Scholarship from the Central Norway Regional Health Authority 2,750,000 NOK (2012) , project leader ○ Norwegian Virological Society (2011) , project leader ○ Project Establishment Support (PES) to the 7th Framework 113 000 NOK (2011), project leader ○ Project Establishment Support (PES) to the 7th Framework 80 000 NOK (2010) , project leader ○ Functional genomics grant from the Research Council of Norway (100 000 NOK), 2011, project leader ○ Norwegian surveillance system for antibiotic resistance among Microbes-NORM grant 2011, project leader ○ SOLiD™ System \$ 10K Genome Grant (\$ 10,000) from Applied Biosystems Inc. , project leader ○ Research Award from the European Society of Clinical Microbiology and Infectious Diseases (20 000 Euro) , project leader
Languages	German (mother tongue), English, Norwegian, Danish
PhD- committee	PhD thesis of Umer Farooq from NARC Islamabad PhD thesis Farman Ullah, University of Malakand
Teaching	<p>Distinguished lecturer since 2020</p> <p>My pedagogical portfolio can be accessed here: https://my-teaching.com/</p>

Publications and other contributions

International peer-reviewed journals

1. Shegaw Anagaw Mengiste, Konstantinos Antypas, Marius Rohde Johannessen, Joern Klein, Jens Kassbøll , and Gholamhossein Kazemi
e-Health Policy Framework in Low and Lower Middle Income Countries
submitted
 2. Mahdieh Gholami Mayania, Dag Werner Breiby, Jörn Klein, and Muhammad Nadeem Akrama
High-Resolution Polarization-Sensitive Fourier Ptychography Imaging Using a High-Synthesized Numerical Aperture
submitted
 3. Shegaw Anagaw Mengiste, Konstantinos Antypas, Marius Rohde Johannessen, Jörn Klein, Gholamhossein Kazemi and Jens Kassbøll Research Landscape and Research Priorities in eHealth in four African Countries- A survey
Proceedings EGOV2022
 4. Masresha Derese Tegegne, Berhanu Fikadie Endehabtu, Jörn Klein, Monika Knudsen Gullslett, Tesfahun Melese Yilma
Use of social media for COVID-19 related information and associated factors among health professionals working at public health centers in Northwest Ethiopia: A cross-sectional study
Digital Health 10.1177/20552076221113394
 5. Ahmed MH, Awol SM, Kanfe SG, Hailegebreal S, Debele GR, Dube GN, Guadie HA, Ngusie HS, Klein J.
Willingness to use telemedicine during COVID-19 among health professionals in a low income country.
Inform Med Unlocked. 2021;27:100783. doi: 10.1016/j.imu.2021.100783.
 6. Ahmed MH, Siraj SS, Klein J, Ali FY, Kanfe SG
Knowledge and Attitude Towards Second COVID-19 Vaccine Dose Among Health Professionals Working at Public Health Facilities in a Low Income Country.
Infect Drug Resist. 2021 Aug 12;14:3125-3134. doi: 10.2147/IDR.S327954
 7. Mohammedjud Hassen Ahmed, Shuma Gosha Kanfe, Samuel Hailegebreal, Habtamu Setegn, Jörn Klein
Digital Health Literacy Skills and Its Associated Factors among Health Professionals in A low Income Country
submitted BMC Medical Informatics and Decision Making
 8. The World Health Network: a new framework for public health
Lancet, submitted
 9. Ahmed MH, Siraj SS, Klein J, Ali FY, Kanfe SG. Knowledge and Attitude Towards Second COVID-19 Vaccine Dose Among Health Professionals Working at Public Health Facilities in a Low Income Country.
Infect Drug Resist. 2021;14:3125-3134, <https://doi.org/10.2147/IDR.S327954>
 10. Peñalvo JL, Mertens E, Ademović E, Akgun S, Baltazar AL, Buonfrate D, Čoklo M, Devleeschauwer B, Diaz Valencia PA, Fernandes JC, Gómez EJ, Hynds P, Kabir Z, Klein J, Kostoulas P, et al.
Unravelling data for rapid evidence-based response to COVID-19: A summary of the unCoVer protocol
BMJ Open. 2021 Nov 18;11(11):e055630. doi: 10.1136/bmjopen-2021-055630.
 11. Helena Costa, Jörn Klein, Eva M. Breines, Hendrik H. Nollens, Keith Matassa, Mendy Garron, Pdraig J. Duignan, Todd Schmitt, Tracey Goldstein, Morten Tryland
A comparison of parapoxviruses in North American pinnipeds
Front. Vet. Sci. 2021. doi: 10.3389/fvets.2021.653094
 12. Yashpal Singh Malik; Prashant Kumar; Mohd Ikram Ansari; Balasubramanian Ganesh; Sina Salajegheh; Senthilkumar Natesan; Shubhankar Sircar; Muhammad Sfdar; Phelipe Magalhães Duarte; Shailesh Kumar Patel; Jörn Klein;
Parastoo Rahimi and Kuldeep Dhama
Sars-Cov-2 spike protein extrapolation for covid diagnosis and vaccines
Front. Mol. Biosci. 2021 doi: 10.3389/fmolb.2021.607886
 13. Sina Salajegheh Tazerji; Phelipe Magalhães Duarte; Parastoo Rahimi; Fatemeh Shahabinejad; Santosh Dhakal; Yashpal Singh Malik; Awad A Shehata; Juan Lama; Jörn Klein; et al..
Transmission of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) to animals: An updated review
J Transl Med 18, 358 (2020). <https://doi.org/10.1186/s12967-020-02534-2>
 14. Tsion H. Tebeje and Jörn Klein
Applications of e-Health to Support Person-Centered Health Care at the Time of COVID-19 Pandemic
Telemed J E Health . 2020 Jul 31. doi: 10.1089/tmj.2020.0201.
 15. Mohammedjud Hassen Ahmed; Adina Demissie Bogale; Mulugeta Hayelom Kalayou; **Jörn Klein**; Shegaw Anagaw Mengiste; Behanu Fikadie Endehabtu
Intention to use electronic medical record system and its predictors among health care providers at referral Hospitals,
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north-west Ethiopia, 2019: using Unified Theory of Acceptance and Use Technology 2(UTAUT2) model
BMC Med Inform Decis Mak 20, 207 (2020). <https://doi.org/10.1186/s12911-020-01222-x>

16. Sandra Núñez Egido, Andrew Lowther, Ingebjørg H. Nymo, Eva M. Breines, **Jörn Klein** and Morten Tryland
Pathogen exposure surveillance in Antarctic pinnipeds
Polar Research 2020, 39, 3841
 17. Lua Samimi & **Jörn Klein**
Risks and preventative measures for occupational infections in Norwegian nursing programs
The Global Health: Annual Review (GHAR), Vol 1, Issue 6, 2021,
<https://journals.mcmaster.ca/ghar/article/view/2678/1949>
 18. Anna Soucha & Jörn Klein
What are the challenges in the vaccination of migrants in Norway from healthcare provider perspectives? A qualitative, phenomenological study
BMJ Open 2020 10(11):40974
 19. Thor-Henrik Henriksen, Workeabeba Abebe, Wondwossen Amogne, Yitagesu Getachew, Harald Weedon-Fekjær, Joern Klein, Yimtubezinash Woldeamanuel
Association between Antimicrobial Resistance among Enterobacteriaceae and Burden of Environmental Bacteria in Hospital Acquired Infections: Analysis of Clinical Studies and National Reports..
Heliyon, Volume 5, Issue 7, July 2019, e02054
 20. Sophie E. Scotter, Morten Tryland, Ingebjørg H. Nymo, Linda Hanssen, Mikael Harju, Christian Lydersen, Kit M. Kovacs, Jörn Klein, Aaron T. Fisk, Heli Routti
Contaminants in Atlantic walruses Part 1: Relationships between exposure, diet and pathogen prevalence
Environmental Pollution Volume 244, January 2019, Pages 9-18, <https://doi.org/10.1016/j.envpol.2018.10.001>
 21. Morten Tryland, Ingebjørg H. Nymo, Javier Sánchez Romano, Torill Mørk, Jörn Klein, Ulrika Rockström
Infectious Disease Outbreak Associated with Supplementary Feeding of Semi-Domesticated Reindeer
Front. Vet. Sci., 18 April 2019 | <https://doi.org/10.3389/fvets.2019.00126>
 22. Klein J., Charnock C., Hjeltnes B., Tunsjø H.
Can the use of assistive technology and interactive therapeutic robots in nursing homes contribute to the spread of infectious disease?
Canadian Journal of Infection Control, 2018, Volume 32, Issue 4, 225-229
 23. Kowalczewski , Emilie and Klein, Joern
Sámi youth health, the role of climate change, and unique health-seeking behaviour
International Journal of Circumpolar Health, 77:1, DOI: 10.1080/22423982.2018.1454785
 24. Morten Tryland, PhD; Kimberlee B Beckmen; Kathleen A Burek-Huntington; Eva Marie Breines and Joern Klein
Orf virus in Alaskan mountain goats, Dall's sheep, muskoxen, caribou and Sitka black-tailed deer - a zoonotic risk for hunters and game managers
Acta Vet Scand. 2018 Feb 21;60(1):12.
 25. Tryland M., Klein J., Berger T., Josefsen TD, das Neves C., A. Oksanen and Åsbakk K.
Experimental parapoxvirus infection (contagious ecthyma) and attempts of vaccination of semi-domesticated reindeer (Rangifer tarandus tarandus)
Vet Microbiol. 2013 March 23; 162 (2-4) :499-506
 26. Klein, J.
Understanding the molecular epidemiology of foot-and-mouth-disease virus
Infection, Genetics and Evolution 9 (2), 153 (2009).
 27. Klein J., Hussain M., Ahmad M. and Alexandersen S.
Epidemiology of foot-and-mouth disease in Landhi Dairy Colony, Pakistan, the World largest Buffalo colony
Virology Journal 2008, 5:53-highly-accessed
 28. Klein J., Hussain M., Ahmad M. and Alexandersen S.
Genetic characterization of the recent foot-and-mouth disease virus subtype A/IRN/2005
Virology Journal 2007, 4:122
 29. Klein J., Parlak Ü., Özyörük F., Christensen LS
The molecular epidemiology of Foot-and-Mouth Disease Virus serotypes A and O during 1998 Thurs 2004 in Turkey.
BMC Veterinary Research 2006, 2:35
 30. J. Klein, M. Tryland
Characterisation of parapoxvirus isolated from Norwegian semi-domesticated reindeer (Rangifer tarandus tarandus).
Virology Journal 2005, 2:79
-

31. Tryland M., J. Klein, Nordøy ES, Blix AS
Isolation and partial characterization of a parapoxvirus isolated from a skin lesion of a Weddell seal.
Virus Res. March 2005, 108 (1-2) :83-87
32. Eisentraeger A., Dott W, Klein J., Hahn S.
Comparative studies on algal toxicity testing overusing fluorometric microplate and Erlenmeyer flask growth-inhibition assays.
Ecotoxicol Environ Saf. March 2003, 54 (3): 346-354

National peer-reviewed journals

Klein J.

COVID-19 – Betydningen av dråper og aerosoler
Sykepleien, 2021 109 (83362) (e-83362)DOI: 10.4220/Sykepleiens.2021.83362

Bjarne Hjeltnes, bioingeniør, MSc; Colin Charnock, PhD; Andre Ingebetsen MSc, **Jörn Klein, PhD**; Hege S. Tunsjø, bioingeniør, PhD
Effektiv og rimelig påvisning av MRSA og Clostridioides difficile-sporer fra hygienestoler ved hjelp av kontaktagar
Bioingeniøren, 2020-06-19

Klein J.

Sykepleiers rolle i bærekraftig antibiotikabruk
Sykepleien 2018 106(69979)(e-69979), DOI: <https://doi.org/10.4220/Sykepleiens.2018.69979>

Tryland M., dasNeves C., **Klein J.**
"Virusinfeksjoner hos rein"
Norsk veterinærtidsskrift 126, 230-241

Other journals, reports and book chapters

Klein J.

Hygiene og smittevern., In Edith Roth Gjevjon (ed.), Grunnleggende kunnskap i klinisk sykepleie - sykepleieboken 1. Cappelen Damm akademisk

Klein J.

Infectious disease, pandemics, and education- From miasms to COVID-19., In Herner Sæverot (ed.), Meeting the Challenges of Existential Threats through Educational Innovation: A Proposal for an Expanded Curriculum (to be published 22 April 2021). Routledge. ISBN 9780367894856. 1.

Klein J., Hering F., Hering U.

Hvordan håndtere eksplantater juridisk korrekt ?
<https://doi.org/10.6084/m9.figshare.12280067.v1>

Klein J.

Kappløpet mot de resistente bakteriene; Forskning.no
<https://forskersonen.no/kronikk-medisiner-meninger/kappløpet-mot-de-resistente-bakteriene/1338564>

Klein J.

Biorisk Management: Biosafety and Biosecurity in Norway; Forskning.no
<https://forskning.no/meninger/kronikk/2013/04/vi-trenger-biosikkerhet-også-i-norge>

Klein, Jörn

Virus
Store medisinske leksikon. 03/2019 <https://sml.snl.no/virus>.

Klein J.

Hvorfor jeg ikke er lærer
Forskerforum 2 • 2019 • side 40

Kaare M. Nielsen, Nana Asare, Bjørn Tore Lunestad, Siamak Yazdankhah, Bjørnar Ytrehus, Jacques Godfroid, Anders Jelmert, **Jörn Klein**, Arinze Okoli, Arne Tronsmo, Tor Gjøn
Antimicrobial resistance in wildlife potential for dissemination.
Opinion of the Panel on Microbial Ecology, Norwegian Scientific Committee for Food and Environment. VKM report 2018:07, ISBN: 978-82-8259-304-5, ISSN: 2535-4019. Norwegian Scientific Committee for Food and Environment (VKM), Oslo, Norway

Klein J.

Chapter 8: Virus infections and diseases
Reindeer and Caribou: Health and Disease Hardcover – Oct 15 2018
by Morten Tryland (Editor), Susan Kutz (Editor), CRC Press; ISBN-10: 1482250683

Klein J.

Kapittel 8: Smittevernberedskap

Elsa Kristiansen, Eric Carlström, Leif Inge Magnussen (ed.)

Samvirke : en lærebok i beredskap; Universitetsforlaget 2017, ISBN 9788215027944

Risikoanalyse av antibiotikaresistens: Utbrudd av MRSA i Vestfold Krisescenarioer 2017 – analyser av alvorlige hendelser som kan ramme Norge. The Norwegian Directorate for Civil Protection (DSB), ISBN: 978-82-7768-456-7

Arinze Okoli (chair), Nana Asare (VKM staff), Tor Gjølén, **Jörn Klein**, and Bjørnar Ytrehus

Knowledge base for the assessment of environmental risks by the use of genetically modified virus-vectored vaccines for domesticated animals.

Report from the Norwegian Scientific Committee for Food Safety (VKM) 2016, ISBN: 978-82-8259-239-0

Skaar.I; **Klein J.**, Johansen R., Okoli A., Ruus A.

Microbial Bioremediation and risks to Human and environmental Health

Report from the Norwegian Scientific Committee for Food Safety (VKM) 2016, ISBN: 978-82-8259-232-1

Klein J.

Code of Practice for NTNU's BSL3 laboratory, Biosafety Manual, 2010

Sætrum P. and **J. Klein**

miRNA and viral Infections in vertebrates

European Pharmaceutical Review, 2009 Jan; 1:10-15

International conferences

Morten Tryland, Ingebjørg H. Nymo, Javier Sánchez Romano, Torill Mørk, **Jörn Klein**, Ulrika Rockström

Infectious Disease Outbreak Associated with Supplementary Feeding of Semi-Domesticated Reindeer, 15th Arctic Ungulate Conference, 12-16 August 2019 in Jokkmokk, Sweden

Javier Sánchez Romano, Ingebjørg H. Nymo, Torill Mørk, **Jörn Klein**, Mikael Leijon, Åsa Hagström, Tomas Jinnerot, Ulrika Rockström, Morten Tryland

Emerging diseases in a changing reindeer herding system, One Arctic - One Health Conference 2019, February 7-9, 2019, Oulu, Finland

H. Costa, **J. Klein**, E. M. Breines, T. Goldstein, A. Duarte, M. Tryland

Parapoxvirus in North American pinnipeds: a molecular and phylogenetic study, European Association for Aquatic Mammals, Algarve, Portugal

Klein J.

En ny smittevernuttanning

Dansk Selskab for Centralsterilisering og Sygehushygijne, årsmøde 2018, Nyborg

SE Scotter, Prof. M Tryland, IH Nymo, Dr. M Harju, Dr. L Hanssen, Prof. AT Fisk, **Dr. J Klein**, Dr. C Lydersen, Prof. KM Kovacs, Dr. H Routti

Sources of dietary contaminant exposure and relationships with pathogen prevalence in Atlantic walrus (*Odobenus rosmarus rosmarus*) from Svalbard, Norway.

37th International Symposium on Halogenated Persistent Organic Pollutants (POPs) - DIOXIN 2017.

Tryland M., **J. Klein**, T. Berger, T. Josefsen, das Neves C. and K. Åsbakk.

Experimental parapoxvirus infection in semi-domesticated reindeer (*Rangifer tarandus tarandus*)

The 60th Wildlife Disease Association Annual International Meeting August 2011, Québec City

Klein J.

Hantavirus regulation of cellular microRNAs may Contribute to hantavirus-induced endothelial cell permeability

[Abstract / oral communication]

British-Scandinavian Meeting in Microbiology and Infection, May 25-28, 2011 in Bergen, Norway

Alexandersen S., **Klein J.**, Hussain M

Results of molecular testing of samples from Pakistan [abstract / oral communication]

Open Session of the Research Group of the European Commission for the Control of Foot-and-Mouth Disease (EUFMD). International Control of Foot-and-Mouth Disease: Tools, trends and perspectives Sicily, 16-20 October 2008

Alex Andersen S., **J. Klein**, F. Frederiksen, Hussain M

Sampling, shipping, organization and testing of inactivated samples two take advantage of molecular analysis methods. [Abstract

/ oral communication]

Open Session of the Research Group of the European Commission for the Control of Foot-and-Mouth Disease (EUFMD). International Control of Foot-and-Mouth Disease: Tools, trends and perspectives Sicily, 16-20 October 2008

Klein J., Norman P., Hussain M., Ahmad M., Alex S. Andersen

Genetic characterization of the recent foot-and-mouth disease virus subtype A/IRN/2005 [poster presentation]

Third European Congress of Virology. September 1st - May 2007, Nuremberg, Germany

M. Hussain. G. Ferrari, Alex S. Andersen, **J. Klein**, M. Ahmad

Transboundary animal disease and their control strategies in central asian countries [oral presentation]

First annual meeting of the Network of Excellence for Epizootic Disease Diagnosis and Control. May 30th - June 1st 2007, Lublin (Poland)

Klein J., Hussain M., M. Afzal, Alex S. Andersen

Epidemiology of Foot-and-Mouth Disease in the World largest buffalo dairy colony in Landhi, Pakistan -

A combined cross-sectional and longitudinal survey Employing Field and Molecular epidemiological methods. [Poster / oral communication]

Europic, 2006 - meeting of the European Study Group on the Molecular Biology of picornavirus in Saariselka (Finland), 26 November - 1 December 2006

Alexandersen S., **J. Klein**, M. Hussain, D. Paton, M. Afzal

Preliminary Findings from a new project on the epidemiology of FMDV in Pakistan. [Abstract / oral communication]

Open Session of the Research Group of the European Commission for the Control of Foot-and-Mouth Disease (EUFMD). International Control of Foot-and-Mouth Disease: Tools, trends and perspectives in Cyprus, 16-20 October 2006

Tryland M., **Klein J.**, Berger T., Åsbakk K., T. Josefsen

Contagious ecthyma in semi-domesticated reindeer in Norway: clinical Outbreak, experimental infection and virus characterization. [Abstract / oral communication]. The 14th Nordic Conference on Reindeer and Reindeer Husbandry Research in Helsinki (Finland), 20-22 March 2006

J. Klein, H. Hansen, M. Tryland

Characterization of Norwegian parapoxvirus isolates. A comparative study.

Poster session presented at the ESCV Winter Meeting in Copenhagen (Denmark), 15.-17. January 2004

Tryland M., **Berger T.**, **J. Klein**, T. Josefsen, Åsbakk K., H. Bendiksen, Oksanen A.

Contagious ecthyma in semi-domesticated reindeer (Rangifer tarandus tarandus): an experimental infection with parapoxvirus obtained from a clinical outbreak in Norway.

Poster session presented at the 11th Arctic Ungulate Conference in Saariselka (Finland), 24 -28. August 2003

Peer

Veterinary Research Communications, Springer Netherlands; The Veterinary Journal, Elsevier Netherlands; DNA and Cell Biology, Mary Ann Liebert, USA; Infection, Genetics and Evolution, Elsevier Netherlands; African Journal of Biotechnology, The Wellcome Trust; Canadian Journal of Microbiology; Virus Genes; American Journal of Infection Control
