

The Paratuberculosis Newsletter

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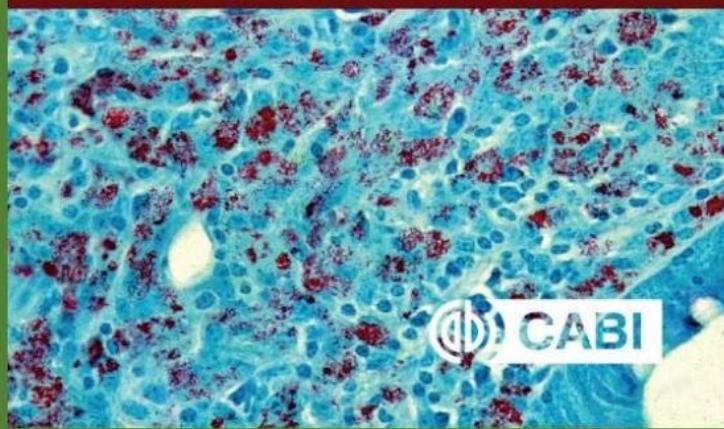


Paratuberculosis

Organism, Disease, Control

2nd Edition

Edited by **Marcel A. Behr, Karen Stevenson and Vivek Kapur**



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Paratuberculosis. Organism, Disease, Control. 2nd edition.

Note from the Editor

Apologies for the late issuing of the September Newsletter but I wanted to be more certain about the dates for the 15th ICP before issuing the newsletter. Included are updates about the 15th ICP, Paratuberculosis News, Database of Paratuberculosis articles published in the last five years, Upcoming Events, List of Johne's websites and the launch of the all new 2nd edition of "Paratuberculosis. Organism, Disease, Control", and a list of recent publications on paratuberculosis.

Best wishes,

Peter Mullanney



Cover Photographs (Courtesy of Dr. Karen Stevenson and cabi.org).

The cover of the new edition of "Paratuberculosis. Organism, Disease, Control" edited by Marcel A Behr, McGill University, Canada, Karen Stevenson, Moredun Research Institute, UK, Vivek Kapur, The Pennsylvania State University, USA.



Expanding membership.

As of June 2020, there are 178 members of the International Association of Paratuberculosis from 29 different countries. There are 39 countries with a population greater than 25 million that do not have a member. You will note later in the newsletter a list of recent publications on Paratuberculosis. There are a total of 153 publications and 32 of these were from countries that don't have members in the IAP. There were 5 from Iran, 3 from Korea and Turkey, 2 from China, Egypt, Poland and Sudan and one each from Bulgaria, Cameroon, Ghana, Hungary, Israel, Kazakhstan, Kenya, Nigeria, Portugal, Sweden, Tunisia, Uganda and Uruguay. The authors of these articles will be written to inviting them to join if they are not already members and if they are from a country that does not have members asked to write a short paragraph for the next newsletter on the incidence of Johne's Disease and research carried out in their country.





15th International Colloquium for Paratuberculosis

13 -16 June 2022

Céad Míle Fáilte

(one hundred thousand welcomes)



@para_tb2021



[paratb2021](#)

In March 2020, in response to the global pandemic brought about by the COVID-19 virus the Committee of the 15th International Association for Paratuberculosis Colloquium 2020 made the hard decision to postpone ICP 2020 until 2021. The event was originally scheduled for 14th -18th June, 2020 in Dublin Castle. The 15th International Colloquium for Paratuberculosis was then re-scheduled for the 6th – 9th April 2021.

Last month the Local Organising Committee was faced with the decision of having to postpone again or to have a virtual conference next April. It was decided by the LOC to go for a live conference in June 2022. We were delighted that the organisers of the 16th ICP in Jaipur, India agreed to this and have postponed their Colloquium until 2024.

The ICP 2021 Committee invites you to the 15th IAP Colloquium in Dublin, Ireland in June 2022. Delegates attending the conference can be assured of a productive and memorable colloquium, discover Irish heritage, culture and music and of course, experience the world renowned hospitality of Ireland.

Further details of the re-arranged schedule will follow in the next Paratuberculosis Newsletter and will be on the conference website at www.icpdublin.com

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Upcoming Events

15th International Colloquium for Paratuberculosis

13th – 16th June 2022 Dublin, Ireland

World Buiatrics Congress 2020

26 –30 September 2021 Madrid, Spain

16th International Symposium of Veterinary Epidemiology and Economics

9–13 Aug 2021 Halifax, Nova Scotia, Canada

16th ICP 2024 Jaipur, India



Database of Paratuberculosis articles published in the last five years

A searchable database of all the articles included in the Paratuberculosis Newsletter for the last five years is now available at <http://www.paratuberculosis.net/references.php> .



List of Johne's websites

A subcommittee has been set up to review the ICP website. One of the suggestions was that a list of websites that give information about paratuberculosis in different countries should be included on the website. Here are a few to start the ball rolling but if your organisation has a website that you would like to see included please send details to editor@paratuberculosis.net

Argentina

- [Universidad Nacional de Mar Del Plata: Veterinary bacteriology research and diagnosis laboratory](#)

Australia

- [Animal Health Australia](#)
- [Australia and New Zealand Standard Diagnostic Procedures, April 2002](#)

Austria

- [Lymphatic fluid used for the first time to diagnose bovine paratuberculosis](#)

Belgium

- [Paratuberculosis control for milking herds](#)

Brazil

- [Animal Health Australia](#)

Canada

- [Johne's Education, Management and Assistance Program](#) (Ontario)
- [Beef Cattle Research Council](#)
- [Alberta Johne's Initiatives](#)
- [British Columbia Testing](#)
- [Canadian Johne's Disease Initiative](#)

Chile

- [Publications of Miguel Salgado](#)

Colombia

- [Universidad De Antioquia](#)

Czech Republic

- [Veterinary Research Institute](#)

Denmark

- [Statens Serum Institut](#)

France

- [World Organization for Animal Health \(O.I.E\)](#)
- [Bovine Paratuberculosis Control](#)
- [Biology, Epidemiology and Risk Analysis in animal health](#)

Germany

- [Frederic Loeffler Institute](#)

Greece

- [Department of Veterinary Medicine, University of Thessaly](#)

India

- [ICAR-Central Institute for Research on Goats](#)

Ireland

- [Animal Health Ireland](#)
- [Report of the Scientific Committee of the Food Safety Authority of Ireland \(2009\)](#)

Italy

- [Istituto Zooprofilattico Sperimentale della Lombardia](#)

Japan

- [National Institute of Animal Health \(NARO\)](#)

Mexico

- [Universidad Nacional Autonoma de Mexico](#)

Netherlands

- [VeeproHolland](#)
- [GD Animal Health](#)

New Zealand

- [Johne's Disease Research Consortium](#) (New Zealand)
- [New Zealand Deer Industry.](#)

Norway

- [Norwegian Veterinary Institute](#)

Panama

- [Indicisat](#)

Saudi Arabia

- [King Faisal University College of Veterinary Medicine](#)

Slovenia

- [Veterinary Faculty, National Veterinary Institute, Ljubljana](#)

Spain

- [produccionanimal.com Interview with Valentin Perez](#)
- [interview with Joseba Garrido, Director of the Animal Health Department of Neiker-Tecnalia](#)

Switzerland

- [Federal Food Safety and Veterinary Office](#)

Thailand

- [National Institute of Animal Health \(NIAH\)](#)

United Kingdom

- [National Johne's Management Plan \(NJMP\) \(U.K.\)](#)
- [National Animal Disease Information Service](#)
- [PBD Biotech](#)
- [Vetstream](#)
- [Kaz Strycharczyk, of Black Sheep Farm Health gives advice on Johne's in Farmer's Weekly](#)
- [Action Johnes](#)
- [Scottish Agricultural College](#)
- [My Healthy Herd](#)

United States

- [Johne's Information Center \(University of Wisconsin-Madison\)](#)
- [Human Paratuberculosis Foundation, Inc](#)
- [USDA Animal and Plant Inspection Service](#)
- [U.S. Voluntary Bovine Johne's Disease Control Program.](#)
- [The Mycobacterial Diseases of Animals \(MDA\) multi-state initiative \(U.S.A.\)](#)
- [Johne's on the Cattle Site](#)
- [Overview of Paratuberculosis By Michael T. Collins from Merck Manual](#)
- [Center for Food safety and Public Health \(Iowa State\)](#)
- [Hato Sano \(Colorado State\)](#)
- [The Cattle Site \(Some interesting videos on Johne's\)](#)



Recent publications to November 2020

Most of these articles were published between June and November 2020. A few articles had not been included in previous newsletters and are included here even though some were published in 2018 and 2019.

Abdelaal Ahmed M., Elgioushy Magdy M., Gouda Shaimaa M., El-Adl Mohamed M., Hashish Emad, Elgami Shima, Ali Mayar, El-Gedawy Attia. (2019)

HEMATO-BIOCHEMICAL AND MOLECULAR MARKERS (IS900) OF CATTLE INFECTED WITH JOHNE'S DISEASE IN EGYPT

Slov Vet Res 2019; 56 (Suppl 22): 421–31 DOI 10.26873/SVR-780-2019

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Simultaneous cognate epitope recognition by bovine CD4 and CD8 T cells is essential for primary expansion of antigen-specific cytotoxic T-cells following ex vivo stimulation with a candidate *Mycobacterium avium* subsp. *paratuberculosis* peptide vaccine.

Vaccine. 2020 Feb 18; 38(8):2016-2025. doi: 10.1016/j.vaccine.2019.12.052. Epub 2020 Jan 3. PMID: 31902643

Abdellrazeq GS, Mahmoud AH, Park KT, Fry LM, Elnaggar MM, Schneider DA, Hulubei V, Davis WC. (2020)

***relA* is Achilles' heel for mycobacterial pathogens as demonstrated with deletion mutants in *Mycobacterium avium* subsp. *paratuberculosis* and *mycobacterium bovis* bacillus Calmette-Guerin (BCG).**

Tuberculosis (Edinb). 2020 Jan; 120:101904. doi: 10.1016/j.tube.2020.101904. Epub 2020 Jan 15. PMID: 32090858

Abdissa K, Ruangkiattikul N, Ahrend W, Nerlich A, Beineke A, Laermann K, Janze N, Lobermeyer U, Suwandi A, Falk C, Schleicher U, Weiss S, Bogdan C, Goethe R. (2020)

Relevance of inducible nitric oxide synthase for immune control of *Mycobacterium avium* subspecies *paratuberculosis* infection in mice.

Virulence. 2020 Dec; 11(1):465-481. doi: 10.1080/21505594.2020.1763055. PMID: 32408806

Aboagye G., Rowe M.T. (2018)

Biofilm formation by *Mycobacterium avium* ssp. *paratuberculosis* in aqueous extract of schmutzdecke for clarifying untreated water in water treatment operations

bioRxiv preprint doi: <https://doi.org/10.1101/336370>

Agrawal Aditya, Varshney Rajat, Gattani Anil, Kirthika P., Khan Mahvash Hira, Singh Rahul, Kodape Shantanu, Patel Shailesh Kumar, Singh Praveen. (2020)

Gold nanoparticle based immunochromatographic biosensor for rapid diagnosis of *Mycobacterium avium* subspecies *paratuberculosis* infection using recombinant protein

Journal of Microbiological Methods Volume 177, October 2020, 106024
<https://doi.org/10.1016/j.mimet.2020.106024>

Agrawal G, Hamblin H, Clancy A, Borody T. (2020)

Anti-Mycobacterial Antibiotic Therapy Induces Remission in Active Paediatric Crohn's Disease.

Microorganisms. 2020 Jul 24; 8(8):1112. doi: 10.3390/microorganisms8081112. PMID: 32722117

Agrawal Gaurav, Aitken John, Hamblin Harrison, Collins Michael, Borody Thomas J. (2020)

Putting Crohn's on the MAP: Five Common Questions on the Contribution of *Mycobacterium avium* subspecies *paratuberculosis* to the Pathophysiology of Crohn's Disease

Dig Dis Sci. 2020 Oct 22; 1-11. doi: 10.1007/s10620-020-06653-0. Online ahead of print. PMID: 33089484 PMCID: PMC7577843 DOI: 10.1007/s10620-020-06653-0

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[Longitudinal Study of Mycobacterium avium Subsp. paratuberculosis Antibody Kinetics in Dairy Cattle Using Sera and Milk throughout the Lactation Period](#)

Vet Sci. 2020 Sep; 7(3): 81. doi: 10.3390/vetsci7030081

Albuquerque, P.P.F., Cezar, R.D.S., Pinheiro Junior, J.W., Grazielle Nascimento, G., Santos, A.S., & Mota, R.A. (2019)

[Occurrence of Mycobacterium avium subsp. paratuberculosis in coalho cheese in the State of Pernambuco, Brazil.](#)

Arquivo Brasileiro de Medicina Veterinária e Zootecnia, 71(6), 1917-1921. Epub December 13, 2019
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Front Immunol. 2020 Jan 8; 10:2874. doi: 10.3389/fimmu.2019.02874. eCollection 2019. PMID: 31969876

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Vet Sci. 2020 Jan 10; 7(1):7. doi: 10.3390/vetsci7010007. PMID: 31936741 PMCID: PMC7157726 DOI: 10.3390/vetsci7010007

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Vet Ital. 2020 Aug 6. doi: 10.12834/Vet It.2325.13205.1. Online ahead of print. PMID: 32761582

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[Genetic Diversity among Mycobacterium avium Subspecies Revealed by Analysis of Complete Genome Sequences.](#)

Front Microbiol. 2020 Aug 7; 11:1701. doi: 10.3389/fmicb.2020.01701. eCollection 2020. PMID: 32849358

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[The interpretation of serial Johne's disease milk antibody results is affected by test characteristics, pattern of test results and parallel bovine tuberculosis testing](#)
Preventive Veterinary Medicine Available online 30 August 2020, 105134

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[Mycobacterium Avium Subspecies Paratuberculosis -The Cause of Crohn's Disease](#)
Modern Health Science; Vol.1, No.1; 2018ISSN 2576-7291 E-ISSN
2576-7305https://doi.org/10.30560/mhs.v1n1p1919

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Comptes rendus de l'Academie bulgare des Sciences Tome 72, No 3, 2019

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[Seroprevalence of *Mycobacterium avium* subsp. *paratuberculosis* in Dairy Cattle in Khartoum State, Sudan.](#)

Research Square. DOI: 10.21203/rs.3.rs-44169/v1

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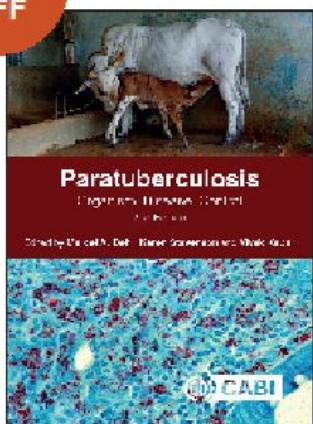
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