Publications of KVI researchers 2016 (65)

Lysnyansky I1, Freed M2, Rosales RS3, Mikula I4, Khateb N2, Gerchman I4, van Straten M5, Levisohn S4.
Author information:
1 Mycoplasma Unit, Division of Avian and Aquatic Diseases, Kimron Veterinary Institute, PO Box 12, Beit Dagan 50250, Israel. Electronic address: innal@moag.gov.il.
2 Israel Dairy Board, Laboratory for Udder Health and Milk Quality, Caesarea, Israel.
3 Department of Bacteriology, Animal and Plant Health Agency, Woodham Lane, Addlestone, Surrey KT15 3NB, UK.
4 Mycoplasma Unit, Division of Avian and Aquatic Diseases, Kimron Veterinary Institute, PO Box 12, Beit Dagan 50250, Israel.
5 Hachaklait Veterinary Services LTD, PO Box 3039, Caesarea, Israel.

PLoS Negl Trop Dis. 2016 Jan 6; 10(1)
Allopurinol Resistance in Leishmania infantum from Dogs with Disease Relapse.
Yasur-Landau D1, Jaffe CL2, David L3, Baneth G1.
Author information:
1Koret School of Veterinary Medicine, The Hebrew University, Rehovot, Israel.
2Department of Microbiology and Molecular Genetics, IMRIC, Hadassah Medical School, The Hebrew University, Jerusalem, Israel.
3Department of Animal Sciences, The Hebrew University, Rehovot, Israel.

Ticks and Tick-borne Diseases Volume 7, Issue 1, February 2016, Pages 13–19
Transmission of Babesia ovis by different Rhipicephalus bursa developmental stages and infected blood injection
Oran Erster, Asael Roth, Ricardo Wolkomirsky, Benjamin Leibovich, Igor Savitzky, Varda Shkap

www.symbiosisonlinepublishing.com
SOJ Vaccine Research
Research Article  Open Access
Antigenically and Genetically Diverse Isolates of Low Pathogenicity H9N2 Avian Influenza Virus Provide Cross-Clade Vaccinal Protection
Irit Davidson1*, Natalia Osidze1, Amira Altory1, Israel Raibshtein1, Ezra Rozenbluth1, Yigal Parnoushi1 and Erica Spackman2
1 Division of Avian Diseases, Kimron Veterinary Institute, Bet Dagan, Israel.
Vet Pathol. 2016 Mar 3.

Pathogenesis of New Strains of Newcastle Disease Virus From Israel and Pakistan.
Pandarangga P¹, Brown CC², Miller PJ³, Haddas R⁴, Rehmani SF⁵, Afonso CL³, Susta L⁶.

Author information
¹Department of Veterinary Pathology, Nusa Cendana University, Kupang, Indonesia Department of Veterinary Pathology, College of Veterinary Medicine, University of Georgia, Athens, GA, USA.
²Department of Veterinary Pathology, College of Veterinary Medicine, University of Georgia, Athens, GA, USA.
³Southeast Poultry Research Laboratory, Agricultural Research Service, US Department of Agriculture, Athens, GA, USA.
⁴Kimron Veterinary Institute, Bet Dagan, Israel.
⁵University of Veterinary and Animal Sciences, Lahore, Pakistan.
⁶Southeast Poultry Research Laboratory, Agricultural Research Service, US Department of Agriculture, Athens, GA, USA Current address: Department of Pathobiology, Ontario Veterinary College, University of Guelph, Guelph, Canada lsusta@uoguelph.ca.

J Dairy Sci. 2016 Mar;99(3):2268-75

Two approaches to improve fertility of subclinical mastitic dairy cows.
Lavon Y¹, Kaim M², Leitner G³, Biran D⁴, Ezra E¹, Wolfenson D⁵.

Author information
¹Israel Cattle Breeders Association, Caesarea 38900, Israel.
²Institute of Animal Science, Agricultural Research Organization, Bet Dagan 50250, Israel.
³Mastitis Laboratory, Veterinary Institute, Bet Dagan 50250, Israel.
⁴Extension Services, Ministry of Agriculture, Bet Dagan 50250, Israel.
⁵Department of Animal Sciences, Faculty of Agriculture, Food and Environment, Hebrew University, Rehovot 76100, Israel. Electronic address: david.wolfenson@mail.huji.ac.il.

Vet Pathol. 2016 Mar 3.

Pathogenesis of New Strains of Newcastle Disease Virus from Israel and Pakistan.
Pandarangga P¹, Brown CC², Miller PJ³, Haddas R⁴, Rehmani SF⁵, Afonso CL³, Susta L⁶.

Author information
¹Department of Veterinary Pathology, Nusa Cendana University, Kupang, Indonesia Department of Veterinary Pathology, College of Veterinary Medicine, University of Georgia, Athens, GA, USA.
²Department of Veterinary Pathology, College of Veterinary Medicine, University of Georgia, Athens, GA, USA.
³Southeast Poultry Research Laboratory, Agricultural Research Service, US Department of Agriculture, Athens, GA, USA.
⁴Kimron Veterinary Institute, Bet Dagan, Israel.
⁵University of Veterinary and Animal Sciences, Lahore, Pakistan.
⁶Southeast Poultry Research Laboratory, Agricultural Research Service, US Department of Agriculture, Athens, GA, USA Current address: Department of Pathobiology, Ontario Veterinary College, University of Guelph, Guelph, Canada lsusta@uoguelph.ca.
Prevalence and risk factors for foot and mouth disease infection in small ruminants in Israel.

Elnekave E¹, van Maanen K², Shilo H¹, Gelman B³, Storm N³, Berdenstain S⁴, Berke O⁵, Klement E⁶.

Author information:
1 Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, POB 12, Rehovot 76100, Israel.
2 The European Commission for the Control of Foot-and-Mouth Disease (EUFMD), Food and Agriculture Organization of the United Nations (FAO), Italy.
3 Kimron Veterinary Institute, The Foot and Mouth Disease laboratory, Beit Dagan, Israel.
4 Kimron Veterinary Institute, Brucellosis referent laboratory, Beit Dagan, Israel.
5 Department of Population Medicine, Ontario Veterinary College, University of Guelph, Ontario, Canada.
6 Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, POB 12, Rehovot 76100, Israel. Electronic address: eyal.klement@gmail.com.

by Grant Maxie DVM PhD DipACVP (Author)
Hardcover: 2456 pages
Publisher: Saunders Ltd.; 6 edition, 2016
Language: English
ISBN-10: 0702053228
VOLUME 2:
1. Alimentary system and peritoneum.
   Infectious and Parasitic Diseases of the Alimentary Tract. Page 130-131
   Figure 1-95 Peste-des-petits-ruminants. Ulceration and fibrinonecrotic pseudomembrane on the oral mucosa of a sheep.
   B. Hemorrhagic colitis in a goat. (Courtesy S. Perl, Kimron Veterinary Institute, Bet Dagan, Israel)
Infectious laryngotracheitis virus (ILTV) vaccine intake evaluation by detection of virus amplification in feather pulps of vaccinated chickens.

Davidson I1, Raibshtein I2, Altori A2, Elkin N3.

Author information

1Division of Avian Diseases, Kimron Veterinary Institute, P.O. Box 12, Bet Dagan 50250, Israel. Electronic address: davidsoni@int.gov.il.
2Division of Avian Diseases, Kimron Veterinary Institute, P.O. Box 12, Bet Dagan 50250, Israel.
3Biovac, Biological Laboratories, Ltd, Israel.

---

DESCRIPTION OF AN OUTBREAK OF FOOT & MOUTH DISEASE (FMD) IN A CLOSE CYCLE UNIT.

Paolo Pozzi1, Michael Eltinger1, Boris Gelman1, Vadim Firigov1, Evgeny Khinch1, Roni Ozari1, Yuval Hadani1

1The Veterinary Services and Kimron Veterinary Institute, Ministry of Agriculture, Bet Dagan, Israel.

Presentation Preference: Oral or Poster

Do you wish to be considered for the Poster Prize?: No

Oral abstract content capture: Accept Content Capturing

Introduction: This work describes the evolution, the clinical signs and the outcomes of a FMD outbreak in one close-cycle unit in North Israel.

Materials and Methods: A farrow to finish farm, with 350 sows, pregnant or at insemination; 66 after farrowing with 742 piglets; 12 before farrowing; 800 weaners; 820 fatteners; 6 boars. On 19/11/2015 The Veterinary Services were alerted about high mortality in suckling piglets; high fever (>41C) in sows; vesicles and lesions on sows’ snouts and feet; reluctance to move. Lesions and mortality were confirmed at inspection on 20/11/2015 and found compatible with FMD. Swine Vesicular Disease (Picornaviridae, Entrovirus), Vesicular Stomatitis (Rhabdoviridae, Viscovirus) were never diagnosed in the country; last FMD outbreak in swine goes back to late ’90s. Double blood samples (with, without anticoagulant); swabs from vesicles of three sows; tongue and cloaca’ tissues samples from an euthanized sow; two dead piglets, were collected and tested for FMD at Kimron Veterinary Institute. Methods used are according to “OIE – Terrestrial Manual 2.1.5; Foot and Mouth Disease” (2012): RT-PCR for all FMD virus types detection; PCR for Type identification; Ag Elisa for Type identification; MoAb-Elisa for FMD virus identification; NSP antibodies detection (differentiate between vaccination or infection antibodies); CP effect on adult swine kidney cells.

Results: RT-PCR was positive for FMD virus; Cytopathic effect was confirmed; PCR, Ag-Elisa, MoAb-Elisa were positive for FMD Virus Type O. NSP test resulted negative, due to the fact NSP antibodies onset requires at least 10 days, and sampling was done at the beginning of the outbreak (estimated 1st to 6th day, in different subjects). The isolate Type O strain phylogenetically belongs to group O/ME-SA/PanAsia; it was named FMD-Fasuta-15. Typical “ilger heart” lesions were not confirmed in dead piglets.

Conclusion: Time to time FMD outbreaks occur in the Country; therefore the farm was quarantined and all the swine farm population vaccinated with a trivalent (O, A, Asia 1), double-oil emulsion, inactivated FMD vaccine, 2ml/head; two vaccinations 3-4 weeks apart. The outbreak was considered closed on 25/12/2015, one month following start of vaccination. 66 farrowings were involved in the outbreak, from 13/10 to 16/12/2015, due to piglets weaned older than 30 days of age. Damages were represented by: suckling piglets mortality: 52.81% of total born; 59.43% of live born; stillbirth increase to 11.13%; 1 dead sow; 2 euthanized; 9 sent to urgent slaughter: 0.75% weaners mortality; 0.38% fatteners mortality; one month delay in slaughtering. This is the first description of a FMD outbreak in swine population in Israel.
Characterization of a Novel Orthomyxo-like Virus Causing Mass Die-Offs of Tilapia.
Bacharach E1, Mishra N2, Briese T2, Zody MC3, Kembou Tsofack JE1, Zamostiano R1, Berkowitz A4, Ng J2, Nitido A2, Corvelo A3, Toussaint NC3, Abel Nielsen SC2, Homig M2, Del Pozo J5, Bloom T3, Ferguson H6, Eldar A7, Lipkin WI8.
1Department of Cell Research and Immunology, The George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv, Israel.
2Center for Infection and Immunity, Mailman School of Public Health, Columbia University, New York, New York, USA.
3New York Genome Center, New York, New York, USA.
4Department of Poultry and Fish Diseases, The Kimron Veterinary Institute, Bet Dagan, Israel.
5Easter Bush Pathology, The Royal (Dick) School of Veterinary Studies and The Roslin Institute, University of Edinburgh, Midlothian, Scotland.
6Marine Medicine Program, Pathobiology, School of Veterinary Medicine, St. George’s University, Grenada, West Indies.
7Department of Poultry and Fish Diseases, The Kimron Veterinary Institute, Bet Dagan, Israel
eldar@int.gov.il
wil2001@cumc.columbia.edu.
8Center for Infection and Immunity, Mailman School of Public Health, Columbia University, New York, New York, USA
eldar@int.gov.il wil2001@cumc.columbia.edu.

Brucellosis Outbreak in Children and Adults in Two Areas in Israel.
Megged O1, Chazan B2, Ganem A2, Ayoub A2, Yanovskay A2, Sakran W2, Miron D2, Dror-Cohen A2, Kennes Y2, Berdenstein S2, Glikman D2.
Author information
1Pediatric Infectious Diseases Unit, Pediatric Department, Shaare Zedek Medical Center, Jerusalem, Israel; Infectious Diseases Unit, Emek Medical Center, Afula, Israel; Clinical Microbiology Laboratory, Galilee Medical Center, Nahariya, Israel; Pediatric Department, Galilee Medical Center, Nahariya, Israel; Pediatric Department B’, Emek Medical Center, Afula, Israel; The Pediatric Infectious Diseases Service, Emek Medical Center, Afula, Israel; Pediatric Department A’, Emek Medical Center, Afula, Israel; The Pediatric Infectious Diseases Service, Emek Medical Center, Afula, Israel; Immunology and Serology Laboratory, Shaare Zedek Medical Center, Jerusalem, Israel; Microbiology Laboratory, Emek Medical Center, Afula, Israel; Brucellosis Lab, OIE, FAO Reference Laboratory, Kimron Veterinary Institute, Bet Dagan, Israel; The Pediatric Infectious Diseases Service, Galilee Medical Center, Nahariya, Israel; The Faculty of Medicine in the Galilee, Bar-Ilan University, Safed, Israel orlimegged@szmc.org.il.
2Pediatric Infectious Diseases Unit, Pediatric Department, Shaare Zedek Medical Center, Jerusalem, Israel; Infectious Diseases Unit, Emek Medical Center, Afula, Israel; Clinical Microbiology Laboratory, Galilee Medical Center, Nahariya, Israel; Pediatric Department, Galilee Medical Center, Nahariya, Israel; Pediatric Department B’, Emek Medical Center, Afula, Israel; The Pediatric Infectious Diseases Service, Emek Medical Center, Afula, Israel; Pediatric Department A’, Emek Medical Center, Afula, Israel; The Pediatric Infectious Diseases Service, Emek Medical Center, Afula, Israel; Immunology and Serology Laboratory, Shaare Zedek Medical Center, Jerusalem, Israel; Microbiology Laboratory, Emek Medical Center, Afula, Israel; Brucellosis Lab, OIE, FAO Reference Laboratory, Kimron Veterinary Institute, Bet Dagan, Israel; The Pediatric Infectious Diseases Service, Galilee Medical Center, Nahariya, Israel; The Faculty of Medicine in the Galilee, Bar-Ilan University, Safed, Israel.
Lysnyansky I1, Ayling RD2.

Author information
1Mycoplasma Unit, Division of Avian and Aquatic Diseases, Kimron Veterinary Institute Beit Dagan, Israel.
2Department of Bacteriology, Animal and Plant Health Agency Addlestone, UK.

Seroprevalence of Foot-and-Mouth Disease in Susceptible Wildlife in Israel.
Elnekave E1, King R2, van Maanen K3, Shilo H1, Gelman B4, Storm N4, Klement E1.

Author information
1The Robert H. Smith Faculty of Agriculture, Food and Environment, Koret School of Veterinary Medicine, The Hebrew University of Jerusalem, Rehovot, Israel.
2Israel Nature and Parks Authority (INPA), Jerusalem, Israel.
3The European Commission for the Control of Foot-and-Mouth Disease (EUFMD), Food and Agriculture Organization of the United Nations (FAO), Rome, Italy.
4Kimron Veterinary Institute, Beit Dagan, Israel.

Quantitative analysis of Babesia ovis infection in sheep and ticks.
Erster O1, Roth A2, Wollkomirsky R2, Leibovich B2, Savitzky I2, Zamir S3, Molad T2, Shkap V2.

Author information:
1Division of Parasitology, Kimron Veterinary Institute, PO Box 12, Bet Dagan 50250, Israel. Electronic address: orane@moag.gov.il.
2Division of Parasitology, Kimron Veterinary Institute, PO Box 12, Bet Dagan 50250, Israel.
3Israeli Veterinary Field Services, Bet Dagan 50250, Israel.

Detection of Leishmania donovani and L. tropica in Ethiopian wild rodents.

Author information:
1Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44 Prague 2, Czech Republic. Electronic address: ayshek2000@yahoo.com.
2Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44 Prague 2, Czech Republic. Electronic address: jovanas@seznam.cz.
3Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44 Prague 2, Czech Republic. Electronic address: vit.dvorak@natur.cuni.cz.
4Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44 Prague 2, Czech Republic. Electronic address: tatianakostalova@gmail.com.
5Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44 Prague 2, Czech Republic. Electronic address: iva.rohousova@natur.cuni.cz.
6Department of Zoology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44 Prague 2, Czech Republic. Electronic address: daniel.frynta@natur.cuni.cz.
7Institute of Vertebrate Biology, Academy of Sciences of the Czech Republic, 675 02 Studenec 122, Czech Republic. Electronic address: tatiana.aghova@gmail.com.

Leishmania major infection in a dog with cutaneous manifestations.

Author information
1 School of Veterinary Medicine, Hebrew University, P.O. Box 12, Rehovot, 76100, Israel. gad.baneth@mail.huji.ac.il.
2 School of Veterinary Medicine, Hebrew University, P.O. Box 12, Rehovot, 76100, Israel.
3 Tel Aviv University, Ramat Aviv, Tel Aviv, Israel.
4 Department of Veterinary Resources, Weizmann Institute of Science, Rehovot, Israel.
5 Veterinary Center, Hadera, Israel.

for L. major, the possibility of clinical canine disease and their potential as secondary hosts should be investigated in areas endemic for human L. major infection.

Current Analytical Chemistry 12(3):169-182 · May 2016

The Occurrence of Veterinary Pharmaceuticals in the Environment: A Review
Fabio Kaczala Linnaeus University
Shlomo Eduardo Blum Kimron Veterinary Institute

Avian Dis. 2016 May; 60(1 Suppl):218-25.

Antigenic Cartography of H9 Avian Influenza Virus and Its Application to Vaccine Selection.
Wang Y1, Davidson J2, Fouchier R3, Spackman E1.

Author information
1A Southeast Poultry Research Laboratory, United States Department of Agriculture, Agricultural Research Service, 934 College Station Road, Athens, GA 30605.
2B Kimron Veterinary Institute, P.O. Box 12, Bet Dagan, 50250, Israel.
3C Department of Viroscience, Erasmus Medical Center, P.O. Box 2040, Rotterdam, the Netherlands 3000 CA.

Adler A\(^1\), Sturlesi N\(^2\), Fallach N\(^1\), Zilberman-Barzilai D\(^1\), Hussein O\(^1\), Blum SE\(^3\), Klement E\(^2\), Schwaber MJ\(^1\), Carmeli Y\(^1\).

Author information
\(^1\)National Center for Infection Control, Ministry of Health, Tel-Aviv, Israel.
\(^2\)Koret School of Veterinary Medicine, Hebrew University, Rehovot, Israel.
\(^3\)Kimron Veterinary Institute, Beit Dagan, Israel.


Real-time evaluation of individual cow milk for higher cheese-milk quality with increased cheese yield.
Katz G\(^1\), Merin U\(^1\), Bezman D\(^1\), Lavie S\(^1\), Lemberskiy-Kuzin L\(^1\), Leitner G\(^2\).

Author information
\(^1\)Afimilk, Afikim 15148, Israel.
\(^2\)National Mastitis Reference Center, Kimron Veterinary Institute, PO Box 12, Bet Dagan 50250, Israel.

Electronic address: leitnerg@moag.gov.il.

Vaccine. 2016 Jun 8;34(27):3178-83.

Optimized polypeptide for a subunit vaccine against avian reovirus.
Goldenberg D\(^1\), Lublin A\(^2\), Rosenbluth E\(^2\), Heller ED\(^3\), Pitcovski J\(^4\).

Author information
\(^1\)Department of Animal Sciences, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel; Migal - Galilee Technology Center, Kiryat Shmona, Israel.
\(^2\)Division of Avian and Fish Diseases, Kimron Veterinary Institute, Bet Dagan, Israel.
\(^3\)Department of Animal Sciences, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel.
\(^4\)Migal - Galilee Technology Center, Kiryat Shmona, Israel; Department of Biotechnology, Tel-Hai Academic College, Israel. Electronic address: jp@migal.org.il.


Detection and isolation of Bluetongue virus from commercial vaccine batches.
Bumbarov V\(^4\), Golender N\(^1\), Erster O\(^2\), Khinich Y\(^1\).

Author information
\(^1\)Division of Virology, Kimron Veterinary Institute, Bet Dagan, PO Box 12, 50250, Israel.
\(^2\)Division of Virology, Kimron Veterinary Institute, Bet Dagan, PO Box 12, 50250, Israel. Electronic address: orane@moag.gov.il.
A high-resolution melting (HRM) assay for the differentiation between Israeli field and Neethling vaccine lumpy skin disease viruses.
Menasherow S¹, Erster O¹, Rubinstein-Giuni M¹, Kovtunenko A¹, Eyngor E¹, Gelman B¹, Khinich E¹, Stram Y².
Author information
¹Virology Division, Kimron Veterinary Institute, P.O. Box 12, Bet Dagan 50250, Israel.
²Virology Division, Kimron Veterinary Institute, P.O. Box 12, Bet Dagan 50250, Israel. Electronic address: yehudastram@gmail.com.

The Effect of Perfusate Volume on Amikacin Concentration in the Metacarpophalangeal Joint Following Cephalic Regional Limb Perfusion in Standing Horses.
Oreff GL¹, Dahan R¹, Tatz AJ¹, Raz T¹, Britzi M², Kelmer G¹.
Author information
¹Department of Large Animal, Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel.
²Kimron Veterinary Institute, National Residue Control Laboratory, Bet Dagan, Israel.

Influence of Animal Health, Breed, and Diet on Non-Cow Milk Composition
N. Silanikove¹, G. Leitner², U. Merin¹
¹ Agricultural Research Organization, Bet Dagan, Israel;
² Kimron Veterinary Institute, Bet Dagan, Israel
Source: Non-Bovine Milk and Milk Products, 1st Edition
Chapter 4: INFLUENCE OF ANIMAL HEALTH, BREED, AND DIET ON NON-COW MILK COMPOSITION

Editor(s): Tsakalidou & Papadimitriou
Release Date: 21 Jun 2016
Imprint: Academic Press
Print Book ISBN: 9780128033616

Molecular characterization of Theileria orientalis from cattle in Ethiopia.
Gebrekidan H¹, Gasser RB¹, Baneth G², Yasur-Landau D², Nachum-Biala Y², Hailu A³, Jabbar A⁴.
Author information:
¹Faculty of Veterinary and Agricultural Sciences, The University of Melbourne, Werribee, Victoria 3030, Australia.
²The Koret School of Veterinary Medicine, Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Israel.
³Department of Microbiology, Immunology and Parasitology, Faculty of Medicine, Addis Ababa University, P.O.
Exposure to Leishmania spp. and sand flies in domestic animals in northwestern Ethiopia.

Rohousova I1, Talmi-Frank D2, Kostalova T3, Polanska N4, Lestinova T5, Kassahun A6, Yasur-Landau D7, Maia C8,9, King R10, Votypka J11, Jaffe CL12, Warburg A13, Hailu A14, Volf P15, Baneth G16.

Author information:
1 Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44, Prague 2, Czech Republic. · 2School of Veterinary Medicine, The Hebrew University of Jerusalem, P.O. Box 12, Rehovot, 76100, Israel.
3Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44, Prague 2, Czech Republic.
4Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44, Prague 2, Czech Republic.
5Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44, Prague 2, Czech Republic.
6Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44, Prague 2, Czech Republic.
7School of Veterinary Medicine, The Hebrew University of Jerusalem, P.O. Box 12, Rehovot, 76100, Israel.
8Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44, Prague 2, Czech Republic.
9Medical Parasitology Unit, Global Health and Tropical Medicine, Institute of Hygiene and Tropical Medicine, Universidade Nova de Lisboa, Rua da Junqueira 100, 1349-008, Lisboa, Portugal.
10Israel Nature and Parks Authority, 3 Am Ve'Olamo Street, Jerusalem, 95463, Israel.
11Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44, Prague 2, Czech Republic.
12Department of Microbiology and Molecular Genetics, The Institute for Medical Research Israel-Canada, The Kuvin Centre for the Study of Infectious and Tropical Diseases, The Hebrew University - Hadassah Medical School, The Hebrew University of Jerusalem, Jerusalem, 91120, Israel.
13Department of Microbiology and Molecular Genetics, The Institute for Medical Research Israel-Canada, The Kuvin Centre for the Study of Infectious and Tropical Diseases, The Hebrew University - Hadassah Medical School, The Hebrew University of Jerusalem, Jerusalem, 91120, Israel.
14Department of Microbiology, Immunology and Parasitology, Faculty of Medicine, Addis Ababa University, P.O. Box 9086, Addis Ababa, Ethiopia.
15Department of Parasitology, Faculty of Science, Charles University in Prague, Vinicna 7, 128 44, Prague 2, Czech Republic.
16School of Veterinary Medicine, The Hebrew University of Jerusalem, P.O. Box 12, Rehovot, 76100, Israel.
**Characterization of Shuni viruses detected in Israel.**
Golender N1, Wernike K2, Bumbarov V1, Aebischer A3, Panshin A1, Jenckel M3, Khinich Y1, Beer M3.
Author information
1Divisions of Virology, Kimron Veterinary Institute, 50250, Bet Dagan, Israel.
2Institute of Diagnostic Virology, Friedrich-Loeffler-Institut, 17493, Greifswald-Insel Riems, Germany.
kerstin.wernike@fli.de.
3Institute of Diagnostic Virology, Friedrich-Loeffler-Institut, 17493, Greifswald-Insel Riems, Germany.

Vaccine. 2016 Aug 9
**The long term effect of age and maternally derived antibodies against foot and mouth disease on the serological response following vaccination in young dairy calves.**
Elnekave E1, Dekker A2, Eble P2, van Hemert-Kluitenbergen F2, Gelman B3, Storm N3, Klement E4.
Author information
1Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, POB 12, Rehovot 76100, Israel.
2Central Veterinary Institute, Part of Wageningen UR, Lelystad, The Netherlands.
3Kimron Veterinary Institute, Beit Dagan, Israel.
4Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, POB 12, Rehovot 76100, Israel. Electronic address: eyal.klement@gmail.com.

Vet Rec Open. 2016 Aug 16; 3(1)
**Streptococcus equi subspecies equi in horses in Israel: seroprevalence and strain types.**
Author information
1Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot , Israel.
2Department of Bacteriology , Kimron Veterinary Institute , Bet Dagan , Israel.
3Centre for Preventive Medicine, Animal Health Trust , Newmarket, Suffolk , UK.

**Travel- and Community-Based Transmission of Multidrug-Resistant Shigella sonnei Lineage among International Orthodox Jewish Communities.**

Infectious agents identified in aborted swine fetuses in a high-density breeding area: a three-year study.
Salogni C1, Lazzaro M2, Giacomini E2, Giovannini S2, Zanoni M2, Giuliani M2, Ruggeri J2, Pozzi P2, Pasquali P2, Boniotti MB2, Alborali GL2.

Author information:
1 Istituto Zooprofilattico Sperimentale della Lombardia ed Emilia Romagna (IZSLER), Brescia, Italy (Salogni, Lazzaro, Giacomini, Giovannini, Zanoni, Giuliani, Ruggeri, Boniotti, Alborali)Kimron Veterinary Institute, Bet Dagan, Israel (Pozzi)Istituto Superiore di Sanità, Rome, Italy (Pasquali) cristian.salogni@izsler.it.
2 Istituto Zooprofilattico Sperimentale della Lombardia ed Emilia Romagna (IZSLER), Brescia, Italy (Salogni, Lazzaro, Giacomini, Giovannini, Zanoni, Giuliani, Ruggeri, Boniotti, Alborali)Kimron Veterinary Institute, Bet Dagan, Israel (Pozzi)Istituto Superiore di Sanità, Rome, Italy (Pasquali).

Food Chemistry 219 (2017) 459–467
www.elsevier.com/locate/foodchem

Newly discovered ergot alkaloids in Sorghum ergot Claviceps Africana occurring for the first time in Israel
J.A. Shimshoni a,⇑, O. Cuneah a, M. Sulyok b, R. Krska b, E. Sionov c, S. Barel a, Y. Meller Harel d
a Kimron Veterinary Institute, Department of Toxicology, Bet Dagan 50250, Israel
b Center for Analytical Chemistry, Department for Agrobiotechnology, University of Natural Resources and Life Sciences, 3430 Tulln, Austria
c Department of Food Science, Agricultural Research Organization, The Volcani Center, Bet Dagan 502500, Israel
d Plant Protection and Inspection Services, Ministry of Agriculture and Rural Development, P.O. Box 78, Bet Dagan 50250, Israel

Naunyn Schmiedebergs Arch. Pharmacol. 2016 Sep 20. [Epub ahead of print]

Neurochemical binding profiles of novel indole and benzofuran MDMA analogues.
Shimshoni JA1, Winkler I2, Golan E3, Nutt D4.
Author information
1Department of Toxicology, Kimron Veterinary Institute, Bet Dagan, Israel. jakobs@moag.gov.il.
2Pharmaseed Ltd, Ness Ziona, Israel.
3BSC BV Company, Veemarkt 61, Amsterdam, Netherlands.
4Neuropsychopharmacology Unit, Imperial College London, London, UK.

The new Israeli feed safety law: challenges in relation to animal and public health.
Barel S1, Elad D2, Cuneah O1, Shimshoni JA3.
Author information
1Kimron Veterinary Institute, Department of Toxicology, Bet Dagan, 50250, Israel.
2Kimron Veterinary Institute, Department of Bacteriology, Bet Dagan, 50250, Israel.
3Kimron Veterinary Institute, Department of Toxicology, Bet Dagan, 50250, Israel. jakobshimshoni@gmail.com.
High Prevalence of Diverse Insertion Sequences within the rRNA Operons of Mycoplasma bovis.


Author information
1Mycoplasma Unit, Division of Avian and Aquatic Diseases, Kimron Veterinary Institute, Beit Dagan, Israel
Koret School of Veterinary Medicine, The Hebrew University of Jerusalem, Rehovot, Israel.
2Department of Molecular Microbiology and Biotechnology, Tel Aviv University, Tel Aviv, Israel.
3Koret School of Veterinary Medicine, The Hebrew University of Jerusalem, Rehovot, Israel.
4Department of Bacteriology, Animal and Plant Health Agency, Addlestone, United Kingdom.
5Mycoplasma Unit, Division of Avian and Aquatic Diseases, Kimron Veterinary Institute, Beit Dagan, Israel
Department of Microbiology and Molecular Genetics, The Hebrew University of Jerusalem, Jerusalem, Israel.
6Mycoplasma Unit, Division of Avian and Aquatic Diseases, Kimron Veterinary Institute, Beit Dagan, Israel
innal@moag.gov.il.

Bluetongue virus serotype 24 (BTV-24) in Israel: phylogenetic characterization and clinical manifestation of the disease.

Golender N, Panshin A, Brenner J, Rotenberg D, Oura C, Khinich E, Bumbarov V.

Author information
1Division of Virology, Kimron Veterinary Institute, 50250 Bet Dagan, Israel.

What can Akabane disease teach us about other arboviral diseases.


Author information: 1Department of Virology, Kimron Veterinary Institute, Bet Dagan 50 250, Israel.

Unusual clinical manifestations in Israeli ruminant populations infected with Orbiviruses.

Bumbarov V, Golender N, Rotenberg D, Brenner J.

Author information
1Department of Virology, Kimron Veterinary Institute, Bet-Dagan, 50250 Israel.

Development of duplex dual-gene and DIVA real-time RT-PCR assays and use of feathers as a non-invasive sampling method.

Davidson I, Raibstein I, Altory-Natour A, Simanov M, Khinich Y.

Author information
1a Division of Avian Diseases, Kimron Veterinary Institute, Bet Dagan, Israel, P.O.Box 12, 50250.
b Division of Virology, Kimron Veterinary Institute, Bet Dagan, Israel, P.O.Box 12, 50250.
The Bacterial Second Messenger Cyclic di-GMP Regulates Brucella Pathogenesis and Leads to Altered Host Immune Response.
Author information
1Cellular and Molecular Pathology Training Program, University of Wisconsin-Madison, Madison, Wisconsin, USA mkhan23@wisc.edu.
2Department of Pathobiological Sciences, University of Wisconsin-Madison School of Veterinary Medicine, Madison, Wisconsin, USA.
3Departamento de Bioquímica e Imunologia, Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais, Belo Horizonte-Minas Gerais, Brazil.
4Mina and Everard Goodman Faculty of Life Sciences, Bar-Ilan University, Ramat-Gan, Israel.
5Department of Pediatrics, University of Wisconsin-Madison School of Medicine and Public Health, Madison, Wisconsin, USA.
6Department of Bacteriology, Kimron Veterinary Institute, Beit Dagan, Israel.

Brucella abortus S19 vaccine protects dairy cattle against natural infection with Brucella melitensis.
vан Странен M1, Барденштейн S2, Кенингвальд G3, Банай M2.
Author information
1"Hachaklait", Mutual Society for Veterinary Services, P.O.B. 3039, Caesarea Industrial Park, 38900, Israel. Electronic address: vanstraten@hachaklait.co.il.
2Kimron Veterinary Institute, P.O.B. 12, Bet Dagan 502501, Israel.
3"Hachaklait", Mutual Society for Veterinary Services, P.O.B. 3039, Caesarea Industrial Park, 38900, Israel.

Transmission tree of the highly pathogenic avian influenza (H5N1) epidemic in Israel, 2015.
Верне T1, Форни T2, Маркович MP3, Йпма RJ4, Катз R3, Шкода I6, Лублин А5, Перк S3, Пфайфер DU2.
Author information
1Veterinary Epidemiology, Economics and Public Health Group, Department of Production and Population Health, Royal Veterinary College, Hatfield, UK. timotheevergne@yahoo.com.
2Veterinary Epidemiology, Economics and Public Health Group, Department of Production and Population Health, Royal Veterinary College, Hatfield, UK.
3Veterinary Services, Ministry of Agriculture and Rural Development, Bet Dagan, Israel.
4Brain Mapping Unit, University of Cambridge, Cambridge, UK.
5Kimron Veterinary Institute, Bet Dagan, Israel.

Prior antimicrobial use as a risk factor for resistance in selected Staphylococcus pseudintermedius isolates from the skin and ears of dogs.
Зур G1, Гуревич B1, Элад D2.
Author information
1 Veterinary Teaching Hospital, The Koret School of Veterinary Medicine, The Hebrew University of Jerusalem, PO Box 12, Rehovot, 76100, Israel.
2 Department of Clinical Bacteriology and Mycology, Kimron Veterinary Institute, Veterinary Services, Ministry of Agriculture, Bet Dagan, 50250, Israel.

Impact of Rabies Vaccination History on Attainment of an Adequate Antibody Titre Among Dogs Tested for International Travel Certification, Israel - 2010-2014.

Yakobson B1, Taylor N2, Dveres N1, Rotblat S1, Spero Ż3, Lankau EW4,5, Maki J6.

Author information
1Rabies Department, Kimron Veterinary Institute, Bet Dagan, Israel.
2Veterinary Epidemiology and Economics Research Unit (VEERU) & PAN Livestock Services Ltd., School of Agriculture, Policy and Development, University of Reading, Reading, UK.
3Koret School of Veterinary Medicine, The Hebrew University of Jerusalem, Rehovot, Israel.
4LandCow Consulting, Madison, WI, USA.
5Ronin Institute, Montclair, NJ, USA.
6Merial Ltd., Athens, GA, USA.

RSC Advances Royal Society of Chemistry, Issue 115, Dec 2016,

Reduced use of glucose by normoxic cow's mammary gland under acute inflammation: an example of homeostatic aerobic glycolysis

Nissim Silanikove,*a  Fira Shapiro,a  Uzi Merin,b  Yaniv Lavon,c  Shlomo E. Blumd  and  Gabriel Leitnerd

Author affiliations
* Corresponding authors
a Department of Ruminant Science, Animal Science, The Volcani Center, P.O. Box 6, Bet Dagan 50250, Israel
E-mail: nissim.silanikove@mail.huji.ac.il
b Food Quality and Safety, Postharvest and Food Sciences, The Volcani Center, P.O. Box 6, Bet Dagan 50250, Israel
c Israel Cattle Breeders Association, Caesarea, Israel
d National Mastitis Reference Center, Kimron Veterinary Institute, P.O. Box 12, Bet Dagan 50250, Israel

Microbiological Industrial Hygiene

Nova Science Publishers. Series: Microbiological Hygiene (Series Editor - Eino Elias Hakalehto, Ph.D. - Institute of Biomedicine, University of Eastern Finland, Kuopio, Finland)


Chapter 9 pp. 133-150. Brucellosis.

Menachem Banai and Michael Bernstein, Department of Bacteriology, Kimron Veterinary Institute, Bet Dagan, Israel
Publications of KVI researchers in “Israel Journal of Veterinary Medicine” 2016

Israel Journal of Veterinary Medicine 2016 71(1) 10-14
Pozzi, P.S.1* and Alborali, G.L.2
2 Animal Health Institute “IZS-LER”, Brescia, Italy.
* Corresponding author: Dr. P.S. Pozzi, DVM, ECPHM, Veterinary Services and Animal Health, Ministry of Agriculture and Rural Development. POB 12, Beit Dagan 5025001, Israel. Tel. (+972) 50-6243951; Fax. (+972) 3-9681795, Email: pozzis@moag.gov.il

Israel Journal of Veterinary Medicine 2016 71(1) 24-30
Dynamic of Cytokine Gene Transcription (TNF-α, IL-1β, IL-6, IL-8) in Surgically Treated Colic Horses by Use of Real-Time PCR (RT-PCR)
Epstein, A.,1* Nir, E.,1 Eyngor, M.,2 Eldar, A.,2 Bdolah-Abram, T.,2 Kelmer, E.,1 Steinman, A.1 and Bruchim, Y.1
1 The Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Israel.
2 Department of Poultry and Fish Diseases, The Kimron Veterinary Institute, Israel.
* Corresponding author: Dr. Ana Epstein, DVM, The Koret School of Veterinary Medicine, Hebrew University of Jerusalem, P.O. Box 12, Rehovot, 76100, Israel, Tel: +972-3-9688588 Fax: +972-3-9604079. Email address :ana6@hotmail.com

Israel Journal of Veterinary Medicine 2016 71(1) 53-57
Salt Intoxication in Commercial Broilers and Breeders – a Clinical and Pathological Description
Perelman, B.,1* Farnoushi, Y.,2 Krispin, H.3 and Rish, D.4
1 Poultry Veterinarian-Clinical Consultant, Kibbutz Beit Kama, Israel.
2 Department of Avian and Fish Diseases, Kimron Veterinary Institute, Beit Dagan. Israel.
3 Yavne Hatchery, Kibbutz Yavne, Israel.
* Corresponding Author: Dr. Beny Perelman, Kibbutz Beit Kama, POB 38. D.N., Negev, Israel, 85325. Tel: 0549755905. Email: benyperelman@gmail.com

Israel Journal of Veterinary Medicine 2016 71(1) 64
Multidrug-Resistant Staphylococcus pseudintermedius in Israel
Blum, S.E.,1 Fleker, M.,1 Weisbelith, L.,1 Avni, Z.2 and Elad, D.1
1 Kimron Veterinary Institute, Beit Dagan, Israel.
2 Israeli Veterinary Services, Beit Dagan, Israel.

Israel Journal of Veterinary Medicine 2016 71(1) 68
Equine Botulism in Israel
Shnaiderman-Torban, A.,1 Elad, D.,2 Kelmer, G.1 and Steinman, A.1
1 Koret School of Veterinary Medicine, The Hebrew University of Jerusalem, Rehovot, Israel.
2 Kimron Veterinary Institute, Beit Dagan, Israel.
Evaluation of Topical Sustained Release Formulation Containing Chlorhexidine in Prevention of Intra-Mammary Bacterial Infections in Dairy Cows During the Dry Period

Lavy, E.,1 Leitner, G.,2 Barkan, D.1 and Friedman, M.3
1 Koret School of Veterinary Medicine, The Hebrew University of Jerusalem, Rehovot, Israel.
2 Kimron Veterinary Institute, Beit Dagan, Israel.
3 School of Pharmacy, The Hebrew University of Jerusalem, Jerusalem, Israel.

Development of a Differential Diagnostic Assay (Diva) Between Vaccine and Wild-Type Turkey Meningoencephalitis Viruses (Tmev)

Davidson, I.,1 Reibshtein, I.,1 Altori, A.,1 Simanov, M.2 and Khinich, Y.2
1 Division of Avian Diseases, Kimron Veterinary Institute, Beit Dagan, Israel.
2 Division of Virology, Kimron Veterinary Institute, Beit Dagan, Israel.

Genotypic Characterization of Avian Reovirus Isolates in Israel

Farnoushi, Y., Mechani, S. and Lublin, A.
Division of Avian and fish Diseases, Kimron Veterinary Institute, Beit Dagan, Israel.

A New Subgroup of Velogenic New Castle Disease Virus with a Potential to create the 5th Panzootic.

Haddas, R.1 and Afonso, C.2
1 Division of Avian Diseases, Kimron Veterinary Institute, Beit Dagan, Israel.
2 Southeast Poultry Research Laboratory’s (SEPRL), USDA, USA.

Outbreak of Avian Influenza (H5N1) in Israel, 2015

Lublin, A.,1 Shkoda, I.,1 Lapin, K.,1 Simanov, L.,1 Haddas, R.,1 Rozenbluth, E.,1 Perry Markovich, M.2 and Perk, S.2
1 Division of Avian and fish Diseases, Kimron Veterinary Institute, Beit Dagan, Israel.
2 Division of Avian and fish Diseases, Kimron Veterinary Institute, Beit Dagan, Israel.

Suspected Melamine-Cyanuric Acid Intoxication in Gilt Head Sea Bream

Berkowitz, A.,1 Britzi, M.,2 Hershko, H.3 and Eldar, A.1
1 Laboratory of Fish Diseases, Kimron Veterinary Institute, Beit Dagan, Israel.
2 Residue Control Laboratory, Kimron

Wildlife Pathogen Surveillance in Israel to Inform Human and Animal Infectious Disease Control: a Prioritization Exercise

Lapid, R.,1 King, R.,2 Yakobson, B.,3 Shalom, U.4 and Moran-Gilad, J.5,6
1 Hai Park Zoo, 79th Ha-Hashmonaim Street, Qiryat Motzkin, 2633761, Israel.
2 Science and Conservation Division, Israel Nature and Parks Authority, 3rd Am Ve’Olamo Street, Jerusalem, 95463, Israel.
3 Kimron Veterinary Institute, Bet Dagan, 50250, Israel.
4 Pest Surveillance and Control Division, Ministry of Environment Protection, Jerusalem, Israel.
Pricing of Cow’s Milk in Relation to Bulk Milk Somatic Cell Count in the Threshold Range of 400×10³ cells per Milliliter
Leitner, G., 1* Lavon, Y., 2 Matzrafi, Z., 3 Benun, O., 3 Bezman, D., 4 and Merin, U. 4
1 National Mastitis Center, Kimron Veterinary Institute, P.O. Box 12, Bet Dagan 50250, Israel.
2 Israel Cattle Breeders Association, Caesarea 38900, Israel.
3 Ruppin Academic Center, Israel.

A Seroprevalence Study of Toxoplasma gondii in some bird and animal species of Israel and its Possible Reflection on Environmental Contamination
Salant, H., 1* Yasur-Landau, D., 2 (from 2017 KVI) Baneth, G., 2 Spira, D.T. 1 and Hamburger, J. 1
1 Department of Parasitology, Hebrew University, Hadassah Medical School, P.O. Box 12272, Jerusalem 91120, Israel.
2 School of Veterinary Medicine, Hebrew University of Jerusalem, Rehovot, Israel

Common Feed and Animal Derived Food Contaminants in Israel
Barel, S., 1* Elad, D., 2 Cuneah, O., 1 Massrwa, M., 3 and Shimshoni, J. A. 1
1 Kimron Veterinary Institute, Department of Toxicology, Bet Dagan, 50250, Israel.
2 Kimron Veterinary Institute, Department of Bacteriology, Bet Dagan, 50250, Israel.
3 Plant Protection and Inspection Services, Ministry of Agriculture and Rural Development, Bet Dagan 50250, Israel.