

Daniel Elad Curriculum Vitae

1. Personal Details:

Date of birth: September 17, 1950

Country of birth: Romania

Date of immigration: 1961

Identity number: 06753040-2

Nationality: Israeli

Family status: Married

Number of children: 1

Military service: Naval Officer, discharged (hon.) as Lt. Commander

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Languages (Scientific text comprehension): Hebrew, English, French, German, Italian, Hungarian, Romanian

2. Higher Education

Date: 1979

Name of institution: Faculty of Veterinary Medicine, Milano University, Italy

Areas of study: Veterinary Medicine

Degree: DVM, *Summa Cum Laude*

Date: 1982

Name of institution: School of Continuing Education, Sackler School of Medicine, Tel Aviv University

Areas of study: Clinical Veterinary Medicine

Degree: Diploma in Clinical Veterinary Medicine

Date: 1994

Name of institution: Dept. of Human Microbiology, Sackler School of Medicine, Tel Aviv University

Areas of study: Mycology

Degree: PhD

Name of supervisor: Prof. Esther Segal

3. Appointments at the Hebrew University:

2000-2008: Adjunct Senior Lecturer of Microbiology, Koret School of Veterinary Medicine, Faculty of Agricultural, Food and Environmental Quality Sciences of the Hebrew University of Jerusalem

2008-present: Adjunct Clinical Associate Professor Microbiology, Koret School of Veterinary Medicine, Faculty of Agricultural, Food and Environmental Quality Sciences of the Hebrew University of Jerusalem

4. Additional Functions/Tasks at the Hebrew University:

1998-2011: Member of the Dissertations Evaluation Board, Koret School of Veterinary Medicine, Faculty of Agricultural, Food and Environmental Quality Sciences of the Hebrew University of Jerusalem. 1998-2000 Chairman of the Board.

1997-2000, 2007-present: Member of the Teaching Committee, Koret School of Veterinary Medicine, The Faculty of Agriculture, The Hebrew University, Jerusalem

5. Service in other Academic and Research Institutions

1980-2000: Head, General Bacteriological Diagnostics Section, Dept. of Bacteriology, Kimron Veterinary Institute.

1986-2000: Deputy Head, Dept. of Bacteriology, Kimron Veterinary Institute.

1991-1997: Member of the Kimron Veterinary Institute's Executive Directorate.

1995-2018: Chief Veterinary Mycologist, Veterinary Services and Animal Health, Israel.

1997-2000: Deputy Director, Kimron Veterinary Institute

2000-2018: Head, Department of Bacteriology, Kimron Veterinary Institute.

2004-2018: Head, Division of Bacteriological and Mycological Laboratories, Kimron Veterinary Institute.

2018 Retired.

6. Other Activities:

Editorial boards:

2004-2016: Associate Editor for Veterinary Mycology – Medical Mycology

2004-present: Member of the Editorial Board – Israel Journal of Veterinary Medicine

2001-present: Member of the Editorial Board – Acta Scientiae Veterinariae

2009-present: Member of the Editorial Board – The Veterinary Journal

Guest editor:

Segal, E., **Elad, D.** [Treatments for Fungal Infections](#). Journal of Fungi, 2018.

Reviewing of manuscripts for the following scientific journals:

1. American Journal of Epidemiology
2. Global Health Research and Policy
3. Israel Journal of Veterinary Medicine
4. Journal of Dairy Science
5. Journal of Equine Veterinary Science
6. Journal of Feline Medicine and Surgery Open Reports
7. Journal of Fungi
8. Journal of Medical Microbiology
9. Journal of Veterinary Dermatology
10. Medical Mycology
11. New Zealand Veterinary Journal
12. PeerJ
13. PLOSone
14. Research in Veterinary Science
15. The Veterinary Journal
16. Veterinary Quarterly
17. Veterinary Record
18. Veterinary Research Communications

Organization of conferences:

- Member of Organizing Committee, VIIIth International Symposium of Veterinary Laboratory Diagnosticians. August 4-9, 1996, Jerusalem, Israel
- Member of Organizing Committee, Regional Congress of the Office International des Epizooties (OIE), September 19-22, 2000, Jerusalem, Israel
- Member of Organizing and Scientific Committee, 7th Congress of the European Confederation of Medical Mycology, June 16-19, 2001, Tel Aviv, Israel (Moved to Rhodes, Greece)
- Organizer of the First Annual Meeting of the Israeli Association for Veterinary Microbiology and Immunology, December 2002, Bet Dagan, Israel
- Organizer of the Second Annual Meeting of the Israeli Association for Veterinary Microbiology and Immunology, December 2003, Bet Dagan, Israel
- Organizer of the Third Annual Meeting of the Israeli Association for Veterinary Microbiology and Immunology, December 2004, Bet Dagan, Israel
- Organizer of the Fourth Annual Meeting of the Israeli Association for Veterinary Microbiology and Immunology, December 2005, Bet Dagan, Israel
- Organizer of the Fifth Annual Meeting of the Israeli Association for Veterinary Microbiology and Immunology, December 2006, Bet Dagan, Israel
- Organizer of the Sixth Annual Meeting of the Israeli Association for Veterinary Microbiology and Immunology, December 2007, Bet Dagan, Israel
- Organizer of the Seventh Annual Meeting of the Israeli Association for Veterinary Microbiology and Immunology, January 2008, Bet Dagan, Israel
- Member of the International Advisory Board, 2009 ISHAM Congress, Tokyo.
- Member of the Organizing Committee and session chair, World Congress on Controversies in Veterinary Medicine (CoVet), 23rd October 2014 at 18:00 - 26th October 2014 at 12:00 (GMT+01:00) Prague
- Member of the Organizing Committee and session chair, 4th ECMM Educational Symposium, February 14-16, 2016, Tel Aviv, Israel.

Prizes awarded:

- 1985: co-author of "Scientific Publication of the Year" as chosen by the Israeli Veterinary Medical Association
- 1987: co-author of "Scientific Publication of the Year" as chosen by the Israeli Veterinary Medical Association
- 1993: "Prof. A. Kimron Research Fellowship Fund" prize for research on the development of ribosomal vaccines against animal dermatophytoses and the establishment of a mycological diagnostic and research laboratory in the "Kimron" Veterinary Institute.
- 1995: "Lecturer of the Year" at the "Koret" School of Veterinary Medicine, Faculty of Agricultural, Food and Environmental Quality Sciences of the Hebrew University of Jerusalem.

Other activity or public functions in the academic field:

- 1984-present Committee for Neonatal Mortality Control of the Kimron Veterinary Institute
- 1992-1997 and 2005-2006: Member of the Israeli evaluation board of United States – Israel Binational Agricultural Research and Development (BARD) research proposals.
- 1994-1997 Chairperson of the Israeli evaluation board of BARD research proposals.

1998-2000 Member of the scientific committee of the Kimron Veterinary Institute
1998-2017: Counsel member and treasurer, Israel Society of Medical Mycology
2000-2005: Counsel member , Israel Society for Microbiology
2002: Founder - Israel Association for Veterinary Microbiology and Immunology
2002-2009: President, Israel Association for Veterinary Microbiology and Immunology
2003-2006: Vice president, International Society for Human and Animal Mycology
2005-present Member of the Cattle Health committee of the Israeli Dairy Board
2015: Lecturer at the 2nd International Veterinary Mycology Course, 26-30 October, 2015,
Torino, Italy
2016-2019 Member of the BARD Tactical Advisory Committee.
2018-2019 Chairman of the BARD Tactical Advisory Committee.

Professional Societies:

1984-present: International Society for Human and Animal Mycology
2003-2006 Counsel Member and Vice President
1980-present: Israeli Veterinary Medical Association
2001-present: Member of the Scientific Committee of the Israeli Veterinary Medical
Association
1984-present: Israel Society for Microbiology
2000-2005 Counsel member
1984-present: Israel Society of Medical Mycology
1998-present Counsel member and treasurer
1984-present: European Confederation of Medical Mycology
2002-present: Israel Association for Veterinary Microbiology and Immunology
(Founder)
2002-2009 President, Israel Association for Veterinary Microbiology and Immunology
2008-present: Member International Society for Human and Animal Mycology, Global
Panel of Opinion Leaders

7. Research Grants:

1984-1985. Israeli Dairy Board. Cryptosporidiosis in cattle: incidence, pathogenesis and
involvement in diarrhea. A. Marcovics, J. Brenner, D. Elad. US\$ 2,500/8,000.
Two years. #3.

1988. Israeli Dairy Board. Development of a ribosomal vaccine against *Trichophyton
verrucosum*, the primary etiologic agent of bovine dermatophytosis. D. Elad, E.
Segal. US\$ 10,000/10,000 One year. #30.

1991. Israeli Dairy Board. Fungal contamination of cattle feed: identification of
pathogenic fungi and methods to reduce the contamination. D. Elad. US\$
21,000/21,000 Two years.

1993-1995 German Israel Agricultural Research Agreement grant A 108 (co-principal
investigator): Biological control of the fungus *Ascosphaera apis*, the causal agent
of chalkbrood in honeybees, by treating the hives with bacteria. B. Jacobson, D.
Elad, W. Ritter, W. Rath. US\$ 50,000/180,000. Three years. # Publications
delayed due to commercialization procedures in course.

1994. Israeli Dairy Board. Survey of the adhesins P987, K88, and F41 on *E. coli* isolated from cases of neonatal calf diarrhea. J. Brenner, D. Elad, A. Marcovics. US\$ 3,000/8,000. One year. #28.
- 1996-1997. Israeli Dairy Board. Isolation and identification of respiratory pathogens in calves. I. Samina, J. Brenner, D. Elad. US\$ 7,000/29,000. Two years.
- 1997-1998. Israeli Dairy Board. Identification and epidemiology of *E. coli* O-157 in cattle and sheep. M. Chafer, D. Elad. US\$ 10,000/20,000. Two years.
1998. Israeli Dairy Board. Involvement of mycotic agents in neonatal calf diarrhea. D. Elad, J. Brenner, A. Marcovics. US\$ 3,000/5,000 One year. #36, 55.
- 2001-2002. Israeli Dairy Board. Development of a method to identify genes responsible for the production of botulinum toxin in bovine feces by PCR. M. Chaffer, D. Elad. US\$ 21,000/21,000. Two years. # 78.
- 2006-2007. Israeli Dairy Board. Investigation of the pathogenicity of *Porphyromonas levii*, the causative agent of Bovine Necrotic Vulvo-Vaginitis, and methods of prevention. D. Elad, S. Blum. 22.000/22.000 US\$. Two years.
- 2008-2009. Israeli Dairy Board. Assessment of the relationship between immune status and susceptibility to Bovine Necrotic Vulvo-Vaginitis in dairy cows. D. Elad, G. Leitner, S. Blum, T. Goshen. 10.000/10.000 US\$. Two years.
- 2011 Israeli Dairy Board. Assessing the fecal shedding frequency of *Mycobacterium avium* subsp. *paratuberculosis* and antibody titer variations in dairy cows. 15.000\$
- 2014-2015 Israeli Dairy Board. The effect of the oral administration of live *Mycobacterium vaccae* on the immune system of cattle and prevention of paratuberculosis. 20.000 US\$/year. Two years.
- 2017-2018 Israeli Dairy Board. The effect of the oral administration of live *Mycobacterium vaccae* on the shedding of *Mycobacterium avium* subsp. *paratuberculosis* – a field trial. 25.000 US\$/year. Two years.

Other Projects:

- 1997-2002 Co-coordinator of the Project for the Development of a Regional Information Network between the Veterinary Services in the Middle East (Israel, Palestine Authority, Jordan, Egypt), Funded by the EEC. (300000\$).
- 2000-2010 Member of the team that devised the Program for the Reduction of Paratuberculosis in Israeli Dairy Herds. Till 2005 professional coordinator of the project, subsequently member of the programs directorate (250000\$ per year). Program ended 2010.
- 2017- Meber of the BARD Technical Advisory Board (TAC)

8. Teaching at the Hebrew University:

Courses Taught by Candidate:

1993-present: Coordinator and teacher of the courses of Veterinary Bacteriology and Mycology (A and B), at the Koret School of Veterinary Medicine, Faculty of Agricultural, Food and Environmental Quality Sciences of the Hebrew University of Jerusalem.

LIST OF PUBLICATIONS**List of publications:****Doctoral dissertation:**

Supervisor: Prof. E. Segal, Dept. of Human Microbiology, Sackler School of Medicine, Tel Aviv.

Subject: *Attempts to induce protective immunity against zoophilic dermatophytes by dermatophyte ribosomal fractions*. Publications: J11, J29, J30, P15, P17

Chapters in collections:

- C1. Segal E. and **Elad, D.**, 1998, *Candida* species and *Blastoschizomyces capitatus*, in: Topley & Wilson's Microbiology and Microbial Infections, 9th edition, Leslie Collier, Albert Balows and Max Sussman eds., Vol. 4, Medical Mycology, Libero Ajello and Roderick J. Hay eds., pp. 423-460. Hodder Arnold
- C2. **Elad, D.** *Fusobacterium necrophorum*. In: Animal Health and Production Compendium. CAB International, 2002 edition.
- C3. **Elad, D.** 2003. Veterinary Medicine and the Biological Threat. In: Joshua Shemer and Yehuda Shoenfeld eds. Terror and Medicine, Pabst Science Publishers, Lengerich. pp. 349-355
- C4. Segal E. and **Elad, D.**, 2005, Candidiasis, in: Topley & Wilson's Microbiology and Microbial Infections, 10th edition. William G. Merz and Roderick J. Hay eds. Medical Mycology. pp. 579-623. Hodder Arnold.
- C5. Segal E. and **Elad, D.**, 2004. Immunization Against Fungal Diseases in Man and Animals. In: Arora DK ed. Handbook of Fungal Biotechnology. pp. 503-514. Marcel Dekker.
- C6. Segal E. and **Elad, D.**, 2020. Fungal Contamination of Beaches. Reference Module in Life Science. Doi: [10.1016/B978-0-12-809633-8.21065-0](https://doi.org/10.1016/B978-0-12-809633-8.21065-0)

Reviews:

1. **Elad, D.** (2005). Risk assessment of malicious bio-contamination of food. J. Food. Protect. 68:1302-1305. 1.874; 10/94
2. Segal E, **Elad, D.** (2006) Fungal Vaccines and Immunotherapy J. Mycol. Med. 16:134-151.
3. **Elad, D.** (2011) Infections caused by fungi of the *Scedosporium/Pseudallescheria* complex in animals. Vet. J. 187:33-41.
4. **Elad, D.** (2013). Immunocompromised patients and their pets: Still best friends? Vet. J. 197:662–669.

5. **Elad, D.** (2014). An unholy disease in the Holy Land: The history of anthrax between the Jordan River and the Mediterranean Sea (1909-2012). Vet. J. 199:319-323.
6. Shimshoni, J.A., **Elad, D.**, Cuneah, O., Barel, S. The New Israeli Feed Safety Law: challenges in relation to animal and public health. Journal of the Science of Food and Agriculture. doi:10.1002/jsfa.8064.
7. Seyedmousavi, S., de Bosco S. M. G., de Hoog, S., Ebel, F., **Elad, D.**, Gomes, R. R., Jacobsen, I. D., Martel, A., Mignon, B., Pasmans, F., Piecková, E., Rodrigues, A. M., Singh, K., Vicente, V. A., Wibbelt, G., Wiederhold, N. P., Guillot, J. (2018). Fungal infections in animals: a patchwork of different situations. Medical Mycology. 56:165-187.
8. **Elad, D.**, Segal, E. (2018). Diagnostic Aspects of Veterinary and Human Aspergillosis. Frontiers in Microbiology. 9:1303. doi: 10.3389/fmicb.2018.01303.
9. **Elad, D.** (2018). Therapy of Non-Dermatophytic Mycoses in Animals. Journal of Fungi, 4:115; doi: 10.3390/jof4040115
10. **Elad, D.** (2019). Disseminated canine mold infections. The Veterinary Journal. 243:82-90. <https://doi.org/10.1016/j.tvjl.2018.11.016>

Editorial

11. Segal, E., **Elad, D.** (2018). Guest Editors and Editorial. Special Issue: Treatments for Fungal Infections. Journal of Fungi (Basel). 4, 135; <https://doi.org/10.3390/jof4040135>

Articles in peer reviewed journals:

12. **Elad, D.**, Yakobson, B., Perl, S., Zuckerman, I. and Tamarin, R. (1982). Clostridial myositis in two experimentally operated dogs. Isr. J. Vet. Med. 39:174-175.
13. Rubinstein, E., Krigel, I. and **Elad, D.** (1984). The efficacy of three antibacterial agents against *Salmonella dublin* in the treatment of infected calves. Isr. J. Vet. Med. 41:122-126.
14. Markovics, A., **Elad, D.** and Pipano, E. (1984). The prevalence of Cryptosporidium in dairy calves in Israel. Isr. J. Vet. Med. 41:134-139.
15. Ziv, G., Bor, A., Soback, S., **Elad, D.**, Nouws, J.F.M. (1985). Clinical pharmacology of apramycin in calves. J. Vet. Pharmacol. Therap. 8:95-104.
16. **Elad, D.** and Bernstein, M. (1987). Isolation of *Aspergillus terreus* from a case of bovine abortion-diagnostic implications. Isr. J. Vet. Med. 43:217-222.

17. Yakobson, B., **Elad, D.** and Efrat, H. (1987). Chalkbrood (Ascosphaeromycosis) in apiaries in Israel. Isr. J. Vet. Med. 43:28-33.
18. **Elad, D.**, Shlomovitz, S., Lampert, M., Yakobson, B., Perl, S. and Harmelin, A. (1988). *Actinobacillus equuli* in a foal-first report in Israel. Isr. J. Vet. Med. 44:261-264.
19. **Elad, D.**, Yeruham, I. (1988). In vitro sensitivity to antimicrobial agents of *Dermatophilus congolensis* isolated from ruminants in Israel. Isr. J. Vet. Med. 44:134-136.
20. **Elad, D.**, Yeruham, I. and I., Bernstein, M. (1988). *Moraxella ovis* in cases of infectious bovine keratoconjunctivitis (IBK) in Israel. J. Vet. Med. (B) 35:431-434.
21. Yeruham, I., Hadani, A., **Elad, D.**, Perl, S. and Spector, U. (1989). A severe case of dermatophilosis in a 5 day-old female calf. Isr. J. Vet. Med. 45:43-44.
22. **Elad, D.**, Segal, E. (1989). Fungal ribosomal vaccines II. Dermatophyte vaccine-initial studies on the antigenicity of a crude ribosomal fraction from *Microsporum canis*. Mycopathologia 105:49-51.
23. Brenner, J., Ungar-Waron, H., **Elad, D.**, Abraham, A. (1989). Clinical and serological follow up of young calves experimentally infected with virulent Bovine Herpes Virus (BHV-1). Isr. J. Vet. Med. 45:21-25.
24. **Elad, D.** (1989). Isolation of *Neisseria cuniculi* from a case of ovine pneumonia. Vet. Microbiol. 21:185-188.
25. **Elad, D.**, Shlomovitz, S., Bernstein, M. and Bassan, Y. (1990). *Neisseria cuniculi* in ruminants: Epidemiological aspects. Epidemiol. Inf. 105:559-563.
26. **Elad, D.**, Zur, I., Shlomovitz, S. and Bargai, U. (1991). *Actinobacillus suis*-like organism in a mare-first report in Israel and brief review of literature. Isr. J. Vet. Med. 46:102-105.
27. **Elad, D.** (1991). The Sensitivity Index, a calculation to improve the choice of antibacterial therapy. J. of Antimicrobial Chemotherapy 27:250.
28. **Elad, D.**, Orgad, U., Yakobson, B., Perl, S., Golomb, P., Trainin, R., Tsur, I., Shenkler, S. and Bor, A. (1991). Eumycetoma caused by *Curvularia lunata* in a dog. Mycopathologia. 116:113-118.
29. **Elad, D.**, Shlomovitz, S., Bernstein, M., Bassan, Y. and Yakobovitch, Y. (1991). Sensitivity pattern of bacteria isolated during 1990, as determined by a standardized *in-vitro* antibacterial disc sensitivity test. Isr. J. Vet. Med. 46:260-263.
30. Yeruham, I., Hadani, A., **Elad, D.**, Ratner, D., Perl, S. and Yakobson, B. (1991). Dermatophilosis (*Dermatophilus congolensis*) accompanied by Contagious Ectima (Orf) in a flock of Yaez in Israel. Isr. J. Vet. Med. 46:74-78.

31. Shlossberg, A., Zadikov, I., Perl, S., Yakobson, B., Varod, Y., **Elad, D.** and Rapaport, E. (1991). *Aspergillus clavatus* as a probable cause of a lethal mass neurotoxicosis in sheep. *Mycopathologia* 114:35-39.
32. Yeruham, I., Hadani, A. and **Elad, D.** (1991). Dermatophilosis (*Dermatophilus congolensis*) in dairymen in Israel. *Isr. J. Vet. Med.* 46:114-116.
33. Yeruham, I., Perl, S., Hadani, A., **Elad, D.** and De-Lange A. (1991). Survey of eye pathology in a dairy herd in the Jericho Valley in Israel. *Isr. J. Vet. Med.* 46:142-144.
34. **Elad, D.**, Shlomovitz, S., Bernstein, M., Bassan, Y. and Yakobovitch, Y. (1992). Comparison between the susceptibility patterns to antibacterial drugs of bacteria isolated during 1991 and 1990, as determined by a standardized *in-vitro* antibacterial disc susceptibility test. *Isr. J. Vet. Med.* 47:74-76.
35. **Elad, D.**, Aizenberg, I., Shamir, M., Soriano, F. and Shlomovitz, S. (1992). *Corynebacterium* group D2 isolated from urinary tract infection of two dogs. *J. Clin. Microbiol.* 30:1167-1169.
36. Yeruham, I., **Elad, D.**, Perl, S., Vishinski, Y., Avieli, D. and Machnai, B. (1993). Dermatophilosis in calves. *Isr. J. Vet. Med.* 47:150-152.
37. **Elad, D.** (1993). Epidemiology and diagnostic organization of veterinary mycology in Israel. *Microbiologia Medica.* 8:405-408.
38. Spiegel, N.Y., **Elad, D.**, Yeruham, I., Winkler, M. and Saran, A. (1993). An outbreak of *Corynebacterium pseudotuberculosis* infection in an Israeli dairy herd. *Vet. Rec.* 133:89-94.
39. Brenner, J., **Elad, D.**, Markovics, A., Grinberg, A. and Trainin, Z. (1994) Epidemiological study of neonatal calf diarrhoea in Israel - A one-year survey of faecal samples. *Isr. J. Vet. Med.* 48:113-116.
40. Polonelli, L, Poulain, D., Cole, G.T., Conti, S., **Elad, D.**, Gerloni, M., Kirkland, T., Matthews, R., Segal, E. and Wyckoff, E. (1994). New strategies in vaccination against fungal infections. *Med. Mycol.* Vol. 32, Supplement 1 pp. 105-112.
41. **Elad, D.** and Segal, E. (1994). Immunogenicity in guinea pigs of a crude ribosomal fraction from *Microsporium canis*. *Vaccine.* 12:134-138.
42. **Elad, D.** and Segal, E. (1995) Immunogenicity in calves of a crude ribosomal fraction from *Trichophyton verrucosum*. *Vaccine.* 13:83-87.
43. Yeruham, I., **Elad, D.** and Nyska A. (1995). Skin diseases in in a merino sheep herd related to an excessively rainy winter in a mediterranean climatic zone. *J. Vet. Med. A.* 12:35-40.

44. Yeruham, I., **Elad, D.** and Nyska A. (1995). A survey of dermatophilosis in Israeli dairy cattle. Revue d'Elevage et de Médecine Veterinaire des Pays Tropicaux. 48:25-29.
45. **Elad, D.**, Shpigel, N.Y., Winkler, M., Klinger, I., Fuchs, V., Saran, A. and Feingold, D. (1995). Feed contaminated with *Candida krusei* as a probable source of an outbreak of mycotic mastitis in a dairy herd in Israel. J. Am. Vet. Med. Assoc. 207:620-622.
46. Yeruham, I., **Elad, D.** and Perl, S. (1995). Dermatophilosis in small ruminants in Israel. Isr. J. Vet. Med. 49:161-164.
47. Brenner, J., **Elad, D.**, Van Ham, M., Markovic, A. and Perl, S. (1995). Microbiological and pathological findings in young calves suffering from neonatal diseases. Isr. J. Vet. Med. 50:21-24.
48. Yeruham, I., **Elad, D.**, Egozi, O. (1996). Outbreak of Dermatophilosis in a horse herd in Israel. J. Vet. Med A. 43:393-398.
49. J29. Yeruham, I., **Elad, D.**, Perl, S., Nyska, A., Vishinski, I. (1996). Contagious impetigo in a dairy herd. Veterinary Dermatology. 7:239-242.
50. Tsur, I., Yakobson B., Elad, D., Kennedy, S. (1997). Morbillivirus infection in a bottlenose dolphin from the Mediterranean Sea. Europ. J. of Vet. Pthol. 3:83-85.
51. Yeruham, I., **Elad, D.**, Van-Ham, M., Shpigel, N.Y., Perl, S. (1997). *Corynebacterium pseudotuberculosis* infection in Israel cattle: clinical and epidemiological studies. Vet. Rec. 140:423-427.
52. Yeruham, I., **Elad, D.**, Yakobson, B., Machnai, B., Perl, S. 1998. Case report: Necrotic glossitis and sinusitis in a cow caused apparently by a *Fusobacterium necrophorum* like microorganism. Berl. Munch. Tierartztl. Wschr. 111:211-213.
53. **Elad, D.**, Brenner, J., Markovics, A., Yakobson, B., Shlomovitz, S., Basan , J. (1998). Yeasts in the gastrointestinal tract of preweaned calves and possible involvement of *Candida glabrata* in neonatal calf diarrhea. Mycopathologia. 141:7-14.
54. Brenner, J., David, D., Bernstein, M., **Elad, D.** 1998. Description of an episode of multifocal polyarthritis of unknown aetiology in newborn calves. Isr. J. Vet. Med. 53:102-104.
55. Yeruham, I., **Elad, D.**, Perl, S., Avidar, Y., Israeli, B., Shlosberg, A. 1999. Isolation of *Corynebacterium pilosum* and *Actinomyces pyogenes* from cystitis and vulvovaginitis infection in a 2-month-old female calf. J. Vet. Med. B. 46:127-130.
56. Yeruham, I., **Elad, D.**, Liberboim, M. 1999. Clinical and microbiological study of an otitis media outbreak in calves in a dairy herd. J. Vet. Med. B. 46:145-150.

57. Steinman, A. ^(PI), **Elad, D.**, Shpigel, N.Y. 1999. Ulcerative lymphangitis and coronet lesions in an atypical outbreak of *Corynebacterium pseudotuberculosis* infection in an Israeli dairy herd. Vet. Rec. 145:604-606.
58. Yeruham, I., Perl S., **Elad, D.** 1999. Case report: Idiopathic toxic epidermal necrolysis in a one-week old calf. Berl. Munch. Tierartzt. Wschr. 112:172-173.
59. Yeruham, I., Perl S., **Elad, D.** 1999. Nine cases of idiopathic toxic epidermal necrolysis in cattle in Israel. J. Vet. Med. B. 46:493-498.
60. Yeruham, I., Perl S., **Elad, D.**, Y. Avidar. 1999. A generalized staphylococcal Scalded Skin-like disease in lambs. J. Vet. Med. B. 46:635-640.
61. Steinman A., Sutton G.A., **Elad, D.** 1999. Equine *Rhodococcus equi* pneumonia: first report in Israel and its significance for man. Harefuah. 137:202-204.
62. Yeruham, I., Friedman, S., **Elad, D.**, Perl S. 2000. Association between milk production, somatic cell count and bacterial dermatoses in three dairy cattle herds. Aust. Vet. J. 78:12-15.
63. Brenner, J., Fridman, S., **Elad, D.** 2000. Prevalence of enteropathogenic organisms isolated from the feces and carcasses of young cattle in Israel from 1990 through 1997. Isr. J. Vet. Med. 55:5-9.
64. Yeruham, I., **Elad, D.**, Perl S. (2000). Economic aspects of outbreaks of dermatophilosis in first-calving cows in nine herds of dairy cattle in Israel. Vet. Rec. 146:695-698.
65. Steinman, A., Haik, R., **Elad, D.**, Sutton, G.A. (2000). Intrathecal administration of tetanus antitoxin to three cases of tetanus in horses. Equine Veterinary Education 12:237-240.
66. Connole, M.D., Yamagouchi, H., **Elad, D.**, Hasegawa, A., Segal, E. and Torres-Rodriguez, J.M. (2000). Natural pathogens of laboratory animals and their effect on research. Proceedings of the XIV Congress of the International Society for Human and Animal Mycology, 8-12 May, 2000, Buenos Aires, Argentina. Medical Mycology, 38 (Supplement 1), pp. 59-65.
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Articles and lectures published in proceedings of symposia

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- P2. Feinhaken, D., Schechter, I., Press, L. and **Elad, D.** (1984) *Yersinia enterocolitica* in pigs and cattle. Annual Meeting of the Israel Society for Microbiology Beer Sheba, Israel, 1983 Isr. J. Med. Sci. 20:475
- P3. Kornitzer, I., M. Bernstein, R. Tamarin, M. Rogol and **Elad, D.** (1984) Incidence of *Campylobacter fetus subsp. jejuni* in domestic animals in Israel. Annual Meeting of the Israel Society for Microbiology Beer Sheba, Israel, 1983 Isr. J. Med. Sci. 20:475 (Cited by others 1 time)
- P4. **Elad, D.** (1985) Isolation of *Aspergillus terreus* from a case of bovine abortion. Tenth Symposium of Veterinary Medicine, Rehovoth, Israel. Isr. J. of Vet. Med. 42:50
- P5. Orgad, U., **Elad, D.**, Perl, S. and Yakobson, B. (1986). Solar heating of circulating water as a source of salmonellosis in crocodile farming. Fourth International Symposium on Microbial Ecology Ljubljana, Yugoslavia, 1986
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- P7. Yakobson, B., **Elad, D.** and Efrat, H. (1986) Chalkbrood (Ascosphaeromycosis) in honey bees. Eleventh Symposium of Veterinary Medicine Rehovoth, Israel, Isr. J. of Vet. Med. 43:89
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- P9. **Elad, D.** and Shlomovitz, S. (1987) Comparison of enrichment procedures for the isolation of salmonellae from field specimens of bovine origin. Annual Meeting of the Israel Society for Microbiology Rehovoth, Israel, Isr. J. Med. Sci. 23:858
- P10. **Elad, D.**, Shlomovitz, S. and Bassan, Y. (1988) Bacterial and fungal zoonotic skin infections of domestic animals. Annual Meeting of the Israel Society for Microbiology Tel-Aviv University Israel, 1988 Isr. J. Med. Sci. 24:390

- P11. Shlossberg, A., Zadikov, I., Perl, S., Yakobson, B., Rapaport, E. and **Elad, D.** (1989) A lethal mass neurotoxicosis in sheep caused by *Aspergillus clavatus* contaminated feed. International Symposium on Poisonous Plants, Logan, Utah July 1989
- P12. Rosenthal, C., Tamarin, R., Samish, S. and **Elad, D.** (1989) Demonstration of the inhibitory effect of propolis on microbial strains. XXXII International Apicultural Congress - Apimondia, Rio de Janeiro Brasil 22-28 October 1989
- P13. Yakobson, B., **Elad, D.**, Rosenthal, K., Kramer, I., Slovecki, I. and Efrat, H. (1991) A recent chalkbrood outbreak in Israel: attempts at therapeutic intervention. Proceedings of the VI American Bee Research Conference, October 7-8, 1991, Tucson, Arizona.
- P14 **Elad, D.** (1992) Epidemiology and diagnostic organization of veterinary mycology in Israel. (Invited lecture) XXI Congresso Nazionale Associazione Microbiologi Clinici Italiani. 4-7 October 1992, Bari, Italy. Alpe Adria Microbiology Journal. 2: 187-189.
- P15. **Elad, D.**, Shpigel, N.Y., Vishinski, Y., Neria, A., Saran, A. and Winkler, M. (1995) Yeasts and yeast-like microorganisms isolated from milk in Israel. Proceedings of the 3rd International Mastitis Seminar, May 28-June 1, 1995, Tel Aviv Israel. S2, pp. 38-41.
- P16. **Elad, D.**, Samina I., Nankin M., Barigazzi G., Foni E., Guazzetti S., Pozzi S.P. (2002). Serological monitoring towards antigen responsible of respiratory diseases in fattening pigs in Israel (In Italian). Atti della Società Italiana di Patologia ed Allevamento dei Suini. XXVIII Meeting Annuale, Piacenza, Italy
- P17. Zur G., **Elad, D.** *In-vitro* Effect of Lufenuron on Zoophilic Dermatophytes Proceeding of the 19th Annual Congress of the ESVD-ECVD Tenerife, Spain 4th-6th September 2003; 161
- P18. Pozzi, S.P., Adany, Y., Bonilauri, P., Brenner, J., Cordioli, P., **Elad, D.**, Lavazza, A., Perl, S., Stram, Y., Yadin, H. Clinical, epidemiological, diagnostic and productive investigations in course of a TGE outbreak in Israel. Atti della Società Italiana di Patologia ed Allevamento dei Suini. XXXI Meeting Annuale, Mantova, 2005, pp263-272.
- P19. Schwendener, S., Chanchaithong, P., Prapasarakul, N., Rossano, A., Blum, S., **Elad, D.**, Perreten, V. Novel pseudo SCCmec element (Ψ SCCmec57395) in methicillin-resistant *Staphylococcus pseudintermedius* CC179. 3rd ASM-ESCMID Conference on Methicillin-resistant Staphylococci in Animals: Veterinary and Public Health Implications. November 4-7, Copenhagen, Denmark

6. Participation in Scientific Conferences, Lectures, and Other Activity

- A1. **Elad, D.** and Segal, E. (1989) Vaccines against dermatophytes. Annual Meeting of the Israel Society for Microbiology, Haifa. Invited lecture.
- A2. Segal, E. and **Elad, D.** (1988) Ribosomal vaccines against mycotic infections. (Invited lecture) Round table on vaccines for the prevention of mycoses, X Congress of the International Society for Human and Animal Mycology, Barcelona 1988. Invited lecture.
- A3. **Elad, D.** and Segal, E. (1989) Assessment of the immunogenicity of a crude ribosomal fraction from *Microsporium canis* in guinea pigs. The 14th Symposium of Veterinary Medicine, Faculty of Agriculture, June 1989, Rehovot, Israel. Invited lecture.
- A4. **Elad, D.** and Segal, E. (1991) Assessment of the protectivity induced by a crude ribosomal fraction from *Microsporium canis* in guinea pigs against experimental infection with the fungus. Annual Meeting of the Israel Society for Microbiology, Ramat-Gan, 1991. Invited lecture.
- A5. **Elad, D.** and Segal, E. (1991) Therapeutic activity of a ribosomal fraction from *Microsporium canis* in puppies. XI Congress of the International Society for Human and Animal Mycology, June 24-28, 1991, Montreal, Canada. Poster.
- A6. **Elad, D.** and Segal, E. (1994) Field trial to assess protectivity induced in calves by a crude ribosomal fraction and the cytoplasmic extract of *Trichophyton verrucosum*. X Congress of the International Society for Human and Animal Mycology, March 13-18, 1994, Adelaide, Australia. Invited lecture.
- A7. **Elad, D.**, Shpigel, N.Y., Vishinski, Y., Neria, A., Saran, A. and Winkler, M. (1995) Yeasts and yeast-like microorganisms isolated from milk in Israel. The 3rd International Mastitis Seminar. May28-June 1, 1995, Tel Aviv, Israel. Invited lecture.
- A8. **Elad, D.** (1996) Searching for information of veterinary importance on the Internet. VIIIth International Symposium of Veterinary Laboratory Diagnosticians. August 4-9, 1996, Jerusalem, Israel. Invited lecture.
- A9. **Elad, D.** (1997) Mycology on the Internet. Annual Meeting of the Israel Society for Microbiology, January 20-21, Ramat-Gan, Israel. Invited lecture.
- A10. **Elad, D.** and Brenner J. (1998) Fungi as possible etiologic agent involved in neonatal calf diarrhea complex (NCDC). The 6th Congress of Mediterranean Federation for Health and Production of Ruminants, May 14-16, Postojna, Slovenia. Lecture.
- A11. Nieto, A., Ruperez, C., **Elad, D.**, Ponte C. and Soriano, F. (1998) Environmental and animal colonization with *Corynebacterium urealyticum*. VIII Congress of the Spanish Society of Infectious Diseases and Clinical Microbiology. Lecture.
- A12. **Elad, D.**, Brenner, J., Markovits, A., Shlomovitz, S., Basan, J. (1999) *Candida glabrata* – an emerging pathogen of human and veterinary importance. Annual Meeting of the Israel Society for Microbiology, Rehovoth, 1999. Invited lecture.

- A13. Greenberg, Y., Banai, M., Shlomovitz, S., Basan, J. Grinberg, K., Baum, M., Bardenstein, S., Stramm, Y., **Elad, D.** (1999) In-vitro and in-vivo assessment of the pathogenicity of bovine and equine *Rhodococcus equi* strains isolated in Israel. Annual Meeting of the Israel Society for Microbiology, Rehovoth, 1999. Lecture.
- A14. **Elad, D.** *Candida glabrata* in preweaned calves. 26th World Veterinary Congress WVA. 23rd-26th September, 1999. Lecture.
- A15. Yakobson, B.A., **Elad, D.**, Ritter, W., Rath, W., Shechat, N., Tiewtrakul, S. Current status of chalkbrood treatment; achievements in biological control. 36th Apimondia Congress, 12-17 September 1999, Vancouver, Canada. Lecture.
- A 16. **Elad, D.**, Brenner, J., Shlomovitz, S., Basan, J. Host-parasite interaction between *Candida glabrata* and the preweaned calf. XIV Congress of the International Society for Human and Animal Mycology, 8-12 May, 2000. Buenos Aires, Argentina. Invited lecture.
- A17. **Elad, D.**, Shlomovitz, S., Basan, J. Trends of in-vitro resistance to antibacterial drugs of veterinary isolates and insurgence of multi-drug resistant strains in Israel – 1990-1999. 8th International Congress of the European Association for Veterinary Pharmacology and Toxicology. July 30-August 3, 2000, Jerusalem, Israel. Invited lecture.
- A18. **Elad, D.**, Shlomovitz, S. 2002. Canine disseminated aspergillosis. Annual Meeting of the Israel Society for Microbiology, February 19-20, 2002, Jerusalem, Israel. Invited lecture.
- A19. Chaffer, M., Grinber K., Ezra E., **Elad D.** 2002. The effect of sub-clinical Johne's disease on milk production, fertility and milk quality in Israel. 7th International Colloquium on Paratuberculosis. 11-14 June 2002, Bilbao, Spain. Lecture.
- A20. Chaffer, M., Baum M, Byder Z, **Elad D.** 2002. Diagnosis of *Mycobacterium paratuberculosis* in Israel: a comparison between ELISA, microscopic observation, culture and PCR methods. 7th International Colloquium on Paratuberculosis. 11-14 June 2002, Bilbao, Spain. Lecture.
- A21. Chaffer, M., Grinberg, K., Ezra, E. and **Elad, D.** (2002). Relationship between ELISA results and Milk production or reproduction data for Johne's diseases in cows. 14rd Congress on Ruminants, Israel 2002. Lecture.
- A22. Shpiegel, N.Y., Chaffer M., **Elad. D.** Vaccination trial for Johne's disease in Israel. (2002). 14rd Congress on Ruminants, Israel 2002. Lecture.
- A23. Shpiegel, N.Y., Chaffer M and **Elad D.** (2002). The effect of long term vaccination with a killed paratuberculosis vaccine on milk production, reproduction and clinical and subclinical disease rates ina dairy herd. 7th International Colloquium on Paratuberculosis. Bilbao, Spain Lecture.

- A24. **Elad D.**, Friedgut O., Alpert N., Stram Y., Lahav D., Tiomkin D., Avramson M., Grinberg K., Bernstein M. (2003). *Porphyromonas levii* in cases of Bovine Necrotic Vulvovaginitis. 27th Symposium of Veterinary Medicine, Bet Dagan, Israel. Lecture.
- A25. Shlossberg A., **Elad D.**, Grinberg K., Hadash D. (2003). Mortality in a group of cats probably caused by *Clostridium botulinum* type C toxin. 27th Symposium of Veterinary Medicine, Bet Dagan, Israel. Lecture.
- A26. Shlosberg, A., **Elad, D.**, Greenberg, K., Hadash, D., Nas, E. and Aroch, I. (2003). Mortality in a group of cats probably caused by *Clostridium botulinum* type C toxin. In: Proceedings, 14th World Congress on Animal, Plant & Microbial Toxins, Adelaide, Australia, p. 60. Lecture.
- A27. **Elad, D.** Risk assessment of malicious bio-contamination of food. JIFSAN/BARD Science and Technology Based Countermeasures to Foodborne Terrorism. Shepherdstown, West Virginia USA. June 29-July 2, 2003. Invited lecture.
- A28 **Elad, D.** (2004). Risk assessment of malicious contamination of food with biological agents. Annual Meeting of the Israel Society for Microbiology, February 9-10, 2004, Haifa, Israel. Invited lecture.
- A29 **Elad, D.** (2004) The epidemiology of anthrax in Israel. International Workshop on Defense to Biological Threats, December 1-2, 2004, Beer Sheba, Israel. Invited lecture.
- A30 Chaffer, M., Friedman, S., Koren, O., Freed, M., Beider, Z., Ezra, E., **Elad, D.** 2005. Comparison of two methods for the detection of paratuberculosis in dairy cows in Israel: milk and serum ELISA. 8th International Colloquium on Paratuberculosis. August 14-18, 2005, Copenhagen, Denmark. Lecture.
- A31 Koren, O., **Elad, D.**, Chaffer, M., Gerazi, S., Meltzer, R., Klement, E. 2005. John's disease control program in the Israeli dairy herds. The 8th International Colloquium on Paratuberculosis. August 14-18, 2005, Copenhagen, Denmark. Poster.
- A32 Shwimer, A, Hatib, N., **Elad, D.**, Blum, S., Freed, M., Friedman S. 2006. *Yersinia pseudotuberculosis* – a new agent of mastitis in Israel. The 18th Annual Meeting for Bovine Sciences. June 6-8, Jerusalem, Israel. Lecture.
- A33 **Elad, D.**, Blum, S., Brenner, J., Friedgut, O., Stram, Y., Mazuz, M., Koren, O., Yeruham, I. 2006. Bovine Necrotic Vulvo-vaginitis: State of the art and future research directions. The 18th Annual Meeting for Bovine Sciences. June 6-8, Jerusalem, Israel. Invited lecture.
- A34 Koren, O., Freed, M., Chaffer, M., **Elad, D.** 2006. Evaluation of herd paratuberculosis prevalence by milk tank testing. The 18th Annual Meeting for Bovine Sciences. June 6-8, Jerusalem, Israel. Lecture.

- A35 **Elad, D.** 2006. Canine disseminated aspergillosis. The 16th Congress of the International Society for Human and Animal Mycology, June 25-29 2006, Paris, France. Poster.
- A36 Yedidya, I., Blum, S., **Elad, D.** Developing a Murine Model of *Porphyromonas levii* infection. 4th Annual Meeting of the Israel Association for Veterinary Microbiology and Immunology, December 2006, Bet Dagan, Israel.
- A37 Schwimer, A., Khatib, N., **Elad, D.**, Blum, S., Freed, M., Friedman, S. *Yersinia pseudotuberculosis* - A Novel Etiologic Agent Of Mastitis In Israeli Dairy Cows - Veterinary And Public Health Implications. 4th Annual Meeting of the Israel Association for Veterinary Microbiology and Immunology, December 2006, Bet Dagan, Israel.
- A38. Steinman, A., Kachtan, I., Levi, O., Chaffer, M., **Elad, D.**, Shpigel N.Y. Seroprevalence Of Anti-Botulinum Neurotoxin Type C Antibodies In Horses In Israel. 4th Annual Meeting of the Israel Association for Veterinary Microbiology and Immunology, December 2006, Bet Dagan, Israel.
- A39. Brenner, J., Bellaiche, M., Gross, **E.**, **Elad, D.**, Yadin, H., Oved, Z., Haimovich, M., Friedgut, O., Wasserman, A., Stram, Y., Bumbarov, V. Appearance of skin lesions in cattle populations vaccinated against lumpy skin disease; - Statutory challenge. 5th Annual Meeting of the Israel Association for Veterinary Microbiology and Immunology, December 2007, Bet Dagan, Israel.
- A40. David, D., Blum, S., Zukin, N., Weissblitt, L., Netanel, O., **Elad, D.** An outbreak of respiratory infections caused by *Streptococcus equi* subsp. *zooepidemicus* in a cattery. 5th Annual Meeting of the Israel Association for Veterinary Microbiology and Immunology, December 2007, Bet Dagan, Israel.
- A41. Blum, S., Freed, M., Zukin, N., Friedman, S., **Elad, D.** *Histophilus somni*: a new, uninvited resident in Israel. 5th Annual Meeting of the Israel Association for Veterinary Microbiology and Immunology, December 2007, Bet Dagan, Israel.
- A42. Mildenberg, Z., Elad, D., Blum, S., Bellaiche, M. Unusual clinical manifestation of strangles in Israel. 10th congress of World Equine Veterinary Association. Moscow, January 28-February 1, 2008.
- A43. **Elad., D.**, David., D., Kol, A., Blum, S. Comparison between an equine and four human strains of *Madurella mycetomatis*. Annual meeting of the Israel Association for Microbiology, Rehovoth, March 15, 2008. (Invited).
- A43. **Elad, D.**, Blum, S., Freed, M., Zukin, N., Schwimer, A., Brenner, J., Friedman, S , Weissblitt, L., Khatib, N., Lysniansky, I. Changes in the prevalence of bacteria causing infections in Israeli dairy cows. The 20th Congress of Dairy Cow Sciences, Jerusalem, May 20-22. (Invited).
- A44. Freed, M., **Elad, D.**, Blum, Khatib, N., S., Friedman, S , Weissblitt, L. Udder infections caused by teasts in dairy cattle in Israel. The 20th Congress of Dairy Cow Sciences, Jerusalem, May 20-22.

- A 45. Brenner, J., Lysniansky, I. Alpert N., Benjamin A., Rutenberg D., Bernstein M., Blum, S., Friedgut O., **Elad, D.** Possible involvement of *Mycoplasma bovigentialium* and *Mycoplasma canadense* in bovine vaginitis. The 20th Congress of Dairy Cow Sciences, Jerusalem, May 20-22.
- A46. Chaffer M., Grinberg K., Koren O., **Elad, D.** The diagnosis of paratuberculosis by real-time PCR. The 20th Congress of Dairy Cow Sciences, Jerusalem, May 20-22.
- A47. **Elad, D.**, David D., Kol A., Blum S. Phenotypic and Genotypic Comparison of an Equine and Four Human Clinical Isolates of *Madurella Mycetomatis*. 17th Congress of the International Society for Human and Animal Mycology 2009, Tokyo, Japan. Invited lecture.
- A48. **Elad, D.** Animal infections caused by fungi of the *Pseudallescheria/Scedosporium* complex. 3rd International Workshop of the ECMM/ISHAM Working Group on *Pseudallescheria/Scedosporium* Infections Bonn, 6 – 8 May, 2010.
- A49 **Elad, D.** The immunocompromised owner and his pet - balancing risks and benefits. 18th Congress of the International Society of Human and Animal Mycology, Berlin, 11-15 June 2012. *Mycoses*, 55, Supplement 4, p. 29. Invited Lecture.
- A50. **Elad, D.** Know your enemy: anthrax outbreak in the Golan, 2012. The 25th Congress of Dairy Cow Sciences, Jerusalem, May 20-22, 2013. Invited Lecture.
- A50. Kaufman, N, Koren, O., Schwimer, A., Baider, Z., Grinberg, K., **Elad, D.** Can one fecal sample identify a *Mycobacterium avium* subsp. *paratuberculosis* shedding cow? The 25th Congress of Dairy Cow Sciences, Jerusalem, May 20-22, 2013. Invited Lecture.
- A51. **Elad, D.** When bacteria don't follow the antimicrobial susceptibility rulebook. World Congress on Controversies, Debates & Consensus in Veterinary Medicine. Prague, October 23-25, 2014. Invited Lecture.
- A52. **Elad, D.** Botulism: main characteristics of the disease and laboratory result interpretation. The 26th Congress of Dairy Cow Sciences, Ashkelon, October 29-30, 2014. Invited Lecture.
- A53. Blum, S., Flecker, M., Weissblitt, L., Avni, Z, **Elad, D.** Multi-drug resistant *Staphylococcus pseudintermedius* in Israel. 38th Veterinary Symposium, December 28, 2015, Bet Dagan, Israel.
- A54. Schneiderman, A., **Elad, D.**, Klemer, G., Steinmann, A. Botulism in horses in Israel. 38th Veterinary Symposium, December 28, 2015, Bet Dagan, Israel.
- A55. **Elad D.** From Man to Environment to Animal and Back to Man. 4th ECMM Educational Symposium, February 14-16, 2016, Tel Aviv, Israel. Invited Lecture.

- A56 Blum, S., **Elad, D.**, Andashao, G., Flecker, M., Weissblitt, L., Ederi, N., Buznach, A., Even Tov, B., Zamir, L., Sharir, B. An outbreak of *Pasteurella multocida* in 2015-2016 in the Golan Heights: an new syndrome in Israel? The 28th Congress of Dairy Cow Sciences, Jerusalem, November 22-24, 2016.
- A57 **Elad, D.**, Leitner, G., Krifuchs, O., Blum, S., Brenner J. Preliminary investigation of the prevention of paratuberculosis by probiotics. The 28th Congress of Dairy Cow Sciences, Jerusalem, November 22-24, 2016.
- A58 **Elad, D.** The Diagnostic Laboratory: Not Only a Cookbook. The 29th Congress of Dairy Cow Sciences, Jerusalem, November 21-23, 2017. Invited Lecture.
- A59 **Elad, D.** Animals as Early Threat Detection Sentinels. IPRED V International Preparedness and Response to Emergencies and Disasters. Tel Aviv, January 14-18, 2018. Invited Lecture.
- A60 **Elad, D.** Comparative aspects of disseminated aspergillosis pathogenesis. Balkan Fungus 2018. Timisoara, Romania. September 13-15. Invited Lecture.
- A61 Alkalay, S., Nahman, D., Eisenkraft, A., Weiis, L., **Elad, D.**, Nir-Paz, R., Hazan, R. Bacteriophages vs Anthrax: Development of Phage-based therapy against *Bacillus anthracis* infection. The MHSRS (Military Health System Research Symposium) at the Gaylord Palms Resort and Convention Center, Kissimmee, 2017, FL, USA.
https://www.researchgate.net/publication/323810633_Bacteriophages_vs_Anthrax_Development_of_Phage-based_therapy_against_Bacillus_anthraxis_infection
- A62 **Elad, D.** Treatment with *Mycobacterium vaccae* as a means to significantly reduce the in-herd prevalence of paratuberculosis carriers. The 31th Congress of Dairy Cow Sciences, Jerusalem, December 2-4, 2019. Invited Lecture.
- A63 M. Frenkel , Y. Yunik , S. Blum , **D. Elad** , E. Sionov E. Segal. Environmental *Aspergillus* and Mucorales species in beach-sand of Israeli Mediterranean coast: possible impact on human health. 9th Advances Against Aspergillosis and Mucormycosis, Lugano, Switzerland, February 27 – 29, 2020.

Other activities related to congresses

1. Member of Organizing Committee, VIIIth International Symposium of Veterinary Laboratory Diagnosticians. August 4-9, 1996, Jerusalem, Israel
2. Chairperson of the "The Computer in Veterinary Diagnosis" session, VIIIth International Symposium of Veterinary Laboratory Diagnosticians. August 4-9, 1996, Jerusalem, Israel
3. Chairperson of the "New Trends in Study and Treatment of Fungal Infections" session, Annual Meeting of the Israel Society for Microbiology, January 20-21, 1997, Ramat-Gan, Israel

4. Chairperson of the "Veterinary Microbiology" session, Annual Meeting of the Israel Society for Microbiology, February 9-10, 1998, Tel Aviv, Israel
5. Chairperson of the "Internet and Mycology" workshop, Sixth International Mycological Congress (IMC6), August 23-28, 1998, Jerusalem, Israel
6. Chairperson of the "Teaching Mycology" workshop, Sixth International Mycological Congress (IMC6), August 23-28, 1998, Jerusalem, Israel
7. Member of Organizing Committee, Regional Congress of the Office International des Epizooties (OIE), September 19-22, 2000, Jerusalem, Israel
8. Chairperson of the "Antimicrobial Drugs" session, 8th International Congress of the European Association for Veterinary Pharmacology and Toxicology. July 30-August 3, 2000, Jerusalem, Israel
9. Member of Organizing and Scientific Committee, 7th Congress of the European Confederation of Medical Mycology, June 16-19, 2001, Tel Aviv, Israel (Moved to Rhodes, Greece).
10. Chairperson of the "Veterinary and Plant Pathology" session. Annual Meeting of the Israel Society for Microbiology, February 19-20, 2002, Jerusalem, Israel.
11. Chairperson of the "Medical Mycology" session, Annual Meeting of the Israel Society for Microbiology, February 3-4, 2003, Tel Aviv, Israel
12. Member of the International Advisory Committee, 17th Congress of the International Society for Human and Animal Mycology 2009, Tokyo, Japan
13. Chairperson of the Mycology session, Annual meeting of the Israel Association for Microbiology, Rehovoth, March 15, 2008.
14. Chairperson of the Veterinary Medicine session, the 20th Congress of Dairy Cow Sciences, Jerusalem, May 20-22.
15. Chairperson of the Veterinary Mycology session, 17th Congress of the International Society for Human and Animal Mycology 2009, Tokyo, Japan
16. Member of the Scientific/Organizing Committee of the 4th ECMM Educational Symposium, February 14-16, 2016, Tel Aviv, Israel
17. Chairperson of Session 3, the 4th ECMM Educational Symposium, February 14-16, 2016, Tel Aviv, Israel
18. Member of the Scientific/Organizing Committee of the Balkan Fungus 2018. Timisoara, Romania. September 13-15.

7. **Patents**

No patents have been registered on my name. However we have deposited several strains with type cultures:

1. *Aspergillus terreus* isolated from a case of bovine abortion. American Type Culture Collection, ATCC 66836.
2. A lipophilic strain of *Malassezia* isolated from a case of dermatitis in a yaez (crossbreed between goat and ibex). British National Collection of Pathogenic Fungi, NCPF 3350.
3. A *Wangiella dermatitidis* like fungus isolated from the liver of a crocodile. British National Collection of Pathogenic Fungi, NCPF 2645.
4. A strain of *Scedosporium apiospermum* isolated from a case of bovine abortion. British National Collection of Pathogenic Fungi, NCPF 2866.

Scientific Biography

My scientific activities stem from my capacity as head of general bacteriological and mycological diagnostics in the Kimron Veterinary Institute. My laboratory examines the large majority of specimens sampled from farm animals in Israel as well as a significant part of those sampled from pets. We provide diagnostic services to the teaching hospital of the Koret School of Veterinary Medicine. Consequently my scientific work is focused on the following subjects:

- Epidemiology of bacterial and mycotic animal pathogens in Israel.
 - Isolation and characterization of new microorganisms involved in animal diseases.
 - The monitoring of trends in the susceptibility of animal pathogens in Israel to antibacterial drugs.
 - Performance of applied research aimed at the solution of specific problems related to microbial pathogens of veterinary importance.
 - Provision of consultation to clinicians in my area of expertise.
 - The introduction of state-of-the-art methods in veterinary bacteriological and mycological diagnostics, especially those based on molecular methods.
1. As a result of my diagnostic activities, emerging pathogens of veterinary importance, previously not reported, were individuated:
 - a. We found *Neisseria*, previously reported as part of the normal flora of the oropharynx of rabbits, in the upper respiratory tract of small and large ruminants, in several cases involved in respiratory pathology. A positive correlation between the permanence of the microorganism in the oropharynx of certain breeds of sheep after the first few months of age, and the same breed's susceptibility to respiratory infections was found.
 - b. *Corynebacterium spp.* isolated from dogs have been only rarely identified to the species level. *C. urealyticum*, (formerly *Corynebacterium* CDC group D2) has been previously recognized as causing urinary tract infection (UTI) in humans, especially after episodes involving traumatic lesions to the urinary system. We identified the microorganism as causing UTI in dogs, with similar symptomatology and anamnestic background as in humans.
 - c. We identified *C. lunata*, previously reported as an agent of human mycetoma, as an agent of eumycotic mycetoma in dogs. We made an attempt to treat the dog with itraconazole (in that period an experimental drug), one of the first such clinical trials in the treatment of mycetomas with this medication.
 - d. The epidemiology, etiology, clinical and immunologic aspects and economic impact of Bovine Necrotic Vulvovaginitis (BNVV), a new syndrome, associated with *Porphyromonas levii*, an emerging pathogen, was described by us. No previous reports of this pathogen causing BNVV have been published. Decreased fertility resulting from this syndrome causes heavy economic damages.
 - e. We have diagnosed the first case of natural botulinic intoxication in cats and lions.
 - f. We described the first case of transutrine transmission of *Aspergillus terreus* during a case of canine disseminated aspergillosis.
 - g. We described a cluster of 9 cases of bovine mastitis caused by *Yersinia pseudotuberculosis*. Only 3 such cases were previously described in the literature.

- h. We were the first to identify a veterinary isolate of *Pseudallescheria boydii* by sequencing of multiple fragments.
- i. We described the first case of eumycotic mycetoma in a horse in Israel.
- j. We were the first to describe a massive outbreak of *Streptococcus equi* subsp. *zooepidemicus* infections in cats.
- k. We were the first to describe a case of mastitis caused by *Mannheimia granulomatis*.
- l. We were the first to describe a case of *Neoscytalidium dimidiatum* infection in a marine mammal.
- m. We identified the emergence of a multi-drug resistant *Staphylococcus pseudintermedius* and associated it with the import of puppies from Thailand.
2. We have devised a method to give the clinician a quantitative indication of the susceptibility of bacterial isolates to antibacterial drugs, thus making the choice of the drug to be used more easily.
3. We assessed the possibility of the use of ribosomal fractions extracted from zoophilic dermatophyte as a vaccine against infections caused by these fungi. Both the humoral and the cellular components of the immune system of guinea pigs vaccinated with the *Microsporum canis* ribosomal fraction and of calves vaccinated with the *Trichophyton verrucosum* ribosomal fraction were activated, as indicated by ELISA, Delayed Type Hypersensitivity and the Lymphocyte Stimulation Test. Infection periods in vaccinated guinea pigs and calves, a significant reduction of the infection period was achieved relative to unvaccinated controls. In addition to the immunogenicity and protectivity of the ribosomal fractions, the *M. canis* ribosomal fraction had a therapeutic effect in naturally infected dogs.
4. We have investigated the possible role of *Candida glabrata*, an emerging human pathogen, in neonatal calf diarrhea. This yeast species, found to be the most prevalent in calves up to 1 month of age, may colonize the abomasum and be involved in enteric conditions. Feeding milk replacers was found to act as a predisposing factor to this colonization.
5. We have isolated a *Bacillus licheniformis* strain, which, when fed to bees, significantly reduced the infection rate of the hive with *Ascosphaera apis*, the causative agent of chalkbrood (publications delayed due to commercialization procedures in course). The bacterium was isolated from healthy bee larvae and was shown experimentally to pose no threat to the hive.
6. We showed that, contrary to previously published data based on culturing the microorganism, when assessed by qPCR, cattle shed *Mycobacterium avium* subsp. *paratuberculosis* in consistent quantities, and that parturition and lactation did not influence the level of variation.
7. We surveyed a zoo populated by Australian animals for the presence of *Cryptococcus gattii*, a pathogenic yeast thus far not identified in Israel. The fungus was not found neither in environmental samples nor in Koala present in the zoo.
8. Animal bacterial pathogens, previously not reported in Israel have been identified in the laboratory. Among them:
 - a. *Actinobacillus equuli* and *A. suis*-like microorganisms in horses. The former causes the "Sleepy Foal" syndrome, a lethal sickness of foals. Individuation of carrier mares and preventive treatment before delivery may save the foal. *A. suis*-like microorganisms cause secondary infection in the upper respiratory tract of horses.

- b. *Branhamella (Moraxella) ovis* is one of the most prevalent agents of infectious keratoconjunctivitis in ruminants in Israel. The primary pathogenicity of *B. ovis* was assessed by instilling the microorganism into the eyes of healthy cows. Results indicated that predisposing factors were necessary to induce clinical signs of infection. An epidemiological study to assess eventual environmental factors which could predispose cattle to keratoconjunctivitis led to the increase of the shade area/animal ratio bringing about a reduction of the infection's incidence.
- c. Identification of *Corynebacterium pseudotuberculosis* as a cause of bovine lymphangitis in cattle in Israel and investigated epidemiological, clinical and therapeutic aspects of the disease. No differences between the pathology caused by bovine or ovine isolates of the agent in guinea pigs (as has been previously reported) were found.
- d. Epidemiological investigations regarding predisposing factors for *Dermatophilus congolensis* infections were conducted. These investigations correlated showering of animals and incidence of the disease.
- e. The epidemiology of neonatal calf pathology in Israel was investigated.
- 9. We have published analyses of the susceptibility patterns of bacteria isolated in Israel to antimicrobial agents and the variation of these patterns in time, providing the clinicians with an improved tool for selecting an empiric antibacterial treatment. The analysis is currently published on the web.
- 10. In 1984, I established a mycological laboratory, filling a gap in the diagnostic activities of the Kimron Veterinary Institute. The laboratory examines today hundreds of samples from large and small animals. Among the results of the laboratory's activities:
 - a. A comprehensive epidemiological survey of mycotic diseases in animals in Israel.
 - a. We assessed the significance of fungal contamination of cattle feed (quantitative and qualitative) in Israel and the implications on animal health. The results indicate that molds (*Mucor* spp., *Rhizopus* spp.) have a very limited importance as primary animal pathogens. Yeasts such as opportunistic pathogens such as *Candida krusei*, may be present, macroscopically undetectable, in great numbers in the feed and may pose a health hazard to the animals.
 - b. We identified for the first time *Ascosphaera apis*, the causal agent of chalk-brood disease in the honey bee in Israel. This fungus has since become one of the most prevalent bee pathogens worldwide, causing extensive damage. Efficient treatments have so far not been devised. We have examined the activity of various antimycotic agents (enilconazole, ketoconazole, amorol-phine) against *A. apis* in the beehive.
 - c. We have identified the agents of mycotic abortions in ruminants in Israel (only one case had been previously reported in Israel). The most prevalent agent was *Aspergillus terreus* with several instances of *A. fumigatus* and *Pseudallescheria boydii*. In most cases of mycotic abortion, we conducted environmental surveys to identify the source of infection, especially feed.
- 9. International connections resulting from the activities of the mycological laboratory included invitations of lectures on the subject as well as counselling to- and cooperation with researchers in Thailand on the solution of problems caused by *Ascosphaera apis* in bees in that country.
- 10. In addition to the diagnostic and research activities:
 - a. I have given update lectures in microbiology and microbial diseases and their prevention to farmers and beekeepers.

- b. I provide in situ counseling in the solution of bacterial and mycological disease outbreaks.
- 11. We have surveyed the prevalence of various yeast species isolated from milk samples and cases of mastitis. We described an outbreak of mastitis caused by *Candida krusei*, probably caused by heavy environmental contamination with the yeast and insufficient milking hygiene.
- 12. We have devised and implemented an eradication program (2003-2015) of paratuberculosis in dairy cattle in Israel. I was the professional coordinator of the project.
- 13. We assessed the safety of the oral administration of live *Mycobacterium vaccae* to newborn calves and the peripheral immune reaction. The final aim is to study the possibility of preventing *Mycobacterium avium* subsp. *paratuberculosis* infections.
- 14. We successfully reduced the paratuberculosis milk ELISA positive cow prevalence from 6% to 0% in 3 years by introducing *M. vaccae* to a dairy farm.

Other achievements:

- 1. I founded (2002) the Israel Association of Veterinary Microbiology and Immunology (IAVMI) (currently about 100 members). Acted as the association's president till 2009.
- 2. I have published and lectured on various aspects of veterinary medicine, food protection and the biological threat.
- 3. I have created a web site (<http://agri3.huji.ac.il/~eladd>) that includes (in Hebrew) chapters on more than 100 bacteria of veterinary importance. Each chapter contains sections on the biology, taxonomy, ecology, virulence factors, pathogenesis, clinical aspects, prevention, treatment, diagnosis and pictures. In addition, the site includes chapters on host-parasite relationships and antibacterials. The site serves as basis for my teaching activities as well as a reference for veterinary practitioners.