

INSTRUCTIONS CASE REPORTS ASV - 2026

Acta Scientiae Veterinariae

OBJECTIVES: *Acta Scientiae Veterinariae* (Supplement) is dedicated to publish **Case Reports**, and it is suitable for the description of clinical, surgical, symptomatological, therapeutic, or other types of cases that have an *outstanding nature or evolution*.

MANUSCRIPT EVALUATION

Manuscripts are initially to be sent for a preliminary assessment by the Editorial Board. **Formats that do not comply with ASV's standards will not be accepted. Do not use "Case Report" in the title.**

PRELIMINARY CONSIDERATIONS

Authors are fully responsible for concepts and opinions presented and discussed in all papers submitted to *Acta Scientiae Veterinariae*. Please take extra care to ensure that your submission complies with the following guidelines.

Authorship contributions: All people defined as author and co-authors should be qualified as such. Each author is expected to take legal responsibility for the content of the submitted paper. Note: CASES with more than 08 authors will not be accepted for publication in ASV.

ID: Inform ORCID number of the authors (= link <https://orcid.org/register>) during the submission process of the manuscript. The ORCID iD icon will appear next to the names of the authors.

Summary of paper presentation requirements:

- All papers must be typed in Times New Roman font size 12 and double spaced throughout (including figure legends and references). Margins should be 2.5 cm.
- Line numbers must be exhibited on the left margin. All lines must be numbered.
- Cover-Page that includes the full title (with no more than 60 words), name(s) and affiliation(s) of all author(s), the name and email address of the designated corresponding author (Correspondence), ABSTRACT (three sections) and a list of up to **six** keywords.
- Paper sections should be ordered as follows: Text (Do not use sentences with "we..." or "our..." subdivided into sections = INTRODUCTION (with maximum of 1,700 characters including spaces); CASE REPORT and DISCUSSION; Manufacturers ; Acknowledgements (optional); Declaration of Interest and References.
- Supply electronic files of all figures (Do not embed the figure in the text). The figures must be presented in a size larger than that of the final montage for publication (which is at least 8 cm and at most 17 cm in width).

NOTE: Submit the material only to: <https://seer.ufvrgs.br/ActaScientiaeVeterinariae/about/submissions#onlineSubmissions>

Papers are published in order of approval for publication.

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US\$ 500.00 net price

Authors, or their funding institutions, are responsible for the payment of publication fees. Payment must be made in full; please note that banking fees should also be taken into account as of the calculation of the value to be deposited. If deductions are made, the deposit will be deemed incomplete, and manuscript will NOT be published until net value is deposited. The fee is due based on the publication year.

PREPARATION OF MANUSCRIPT

ABSTRACT: The Abstract is mandatory, and must have a **minimum of 3400 characters and a maximum of 3900 characters with spaces** (cws). Keywords are NOT included in the Abstract's character count. The abstract is composed of three sections: **1. Background:** short section (with a maximum of 700 cws) that should always include the objective of the case report in the end. **2. Case:** a detailed account of the case. **3. Discussion:** this section should include the conclusions and perspectives of the case report.

IMPORTANT: inform the complete postal address of the *corresponding author* for correspondence. Always inform affiliations (institution names with ACRONYM and location) of all the other authors, and their full names. This information should be placed below the author list, but *never as a footnote*.

INTRODUCTION: This section must be **SHORT**, clear and objective, with information that supports the importance of the report (originality) but without mentioning specifics of the case to be reported. Always finish this section with the objective(s) of the work. Observing character limit (minimum of 700 CWS and maximum of 1700 CWS) is mandatory for this section.

Citations of References in the text: In the text, as a rule references are usually represented by Arabic numerals in square brackets, corresponding to the respective authors arranged and numbered in alphabetical order. Examples of reference representations in the text are: [2], [7,9,16], [23-27,31,33,45-48]. However, in situations where the mention of authors' names is essential (in a few cases), please observe the following suggestions: "The first description was made by Author & Author [3]..."; "Author & Author [32] started the ..."; "In 1958, Author *et al.* [18]"

CASE/CASES: This section should describe clear and concise information (*relevant observations*) about clinical/surgical/symptomatological/therapeutic/etc. cases with outstanding nature or evolution. **Presenting at least two illustrative figures with a standard size** (7.5 cm-wide) **comparing various conditions** (e.g. before x after treatment or surgery, macroscopic lesion x histopathological finding, lesion x macroscopic culture x microscopic aspect, etc.) **is mandatory**.

Tables: If a table has few lines and/or columns, try to incorporate it as sentences in the main text of the manuscript rather than presenting the data as a table. In other words, **do not use small tables to present information that can be included in the main text of the article** (e.g. results from hematological or biochemical exams and their respective reference values).

Tables are to be numbered using Arabic numerals. **No table is to be sent embedded in the main text file.** Each table should be presented in a separate file. All tables should be cited in the text in numerical ascending order.

If a table has only a few rows and columns, try stating the findings in a few sentences. Do not use too many small tables for information that could be presented better in the text.

Figures: Color (CMYK) or gray scale figures have to be sent as digital 300-dpi TIFF files saved on a CD to be sent to ASV, irrespective of digital software. **No image is to be sent embedded in the main text file.** Photographs of microscopy images should contain a scale bar embedded. Symbols, arrows and letters used in photomicrography should be inserted so as to afford clear contrast against the image background, and a scale bar should be provided according to the magnification informed in the figure legend. Digital photographs should be taken using a camera with maximum resolution (minimum 5 megapixels). Images may never be sent as JPG or GIF files.

Measurement units: All measurements should be expressed as IS (International System) units. Temperature is expressed as Celsius degrees, blood pressure as millimeters of mercury. All hematological and biochemical values should be presented as decimal metric system units, according to the International Measurement System (IS). The Editorial Board may request the authors to use alternative units that do not belong to the IS to express values, before publication.

Abbreviations: Authors should avoid using abbreviations. When these are employed, authors are required to use standard abbreviations which should be defined as of the first citation of the term (the exception are measurement units). Considering Latin species names, the genus portion of the name should be abbreviated after the first citation (except in the beginning of a sentence). Abbreviations should not be used in the title and, if possible, authors are not to use abbreviations in the Abstract.

DISCUSSION: The content of the Discussion section should be interpretative. The hypotheses and suppositions formulated based on the data presented in the case should be related to the current knowledge on the topic published. The Discussion should cite only the essential references. The conclusion/s of the case should be linked to the respective objective/s.

MANUFACTURERS: These notes are used to inform the origin of commercial products by citing **manufacturer (complete name of the company or Laboratory), city and country.** These notes should be numbered consecutively, as superscript numerals and appear after the Conclusion's section (**DO NOT repeat the name of any manufacturer**).

Acknowledgements. Should be brief and address the significant technical cooperation and orientation by colleagues in the conduction of the study.

Declaration of interest. Conflict of interest may be personal, commercial, political, academic or financial. It is particularly important for authors to provide a full and complete disclosure of any financial relationship with a commercial organisation that may have an interest in the contents of the submitted manuscript.

REFERENCES: Papers submitted to *Acta Scientiae Veterinariae* shall not be reviewed when references are incomplete or not in accordance with the journal's standards. Reference research papers should be numbered in **alphabetical order**, as follows:

Number - Surname (the first letter in capitals) followed by initials in capital letters followed by a dot (names of authors should be separated by commas, except the last author's name, which should be preceded by an ampersand) - Year of publication - Title of the paper - **Full name of the journal of publication** (in italic type, with no abbreviation) - volume (issue): pages-pages. DOI.

Examples of references

• Papers

Note 1: References are numbered in alphabetical order considering the surnames of authors, instead of year of publication. For example:

7 Berlinguer F., Leoni G., Bogliolo L., Pintus P.P., Rosati I., Ledda S. & Naitana S. 2004.

8 Bernardi M.L., Cotinot C., Payen E. & Delouis C. 1996.

9 Bernardi M.L. & Delouis C. 1995.

10 Bernardi M.L. & Delouis C. 1996.

11 Bernardi M.L., Fléchon J-E. & Delouis C. 1996.

26 Martinez E.A., Vazquez J.M., Roca J., Lucas X., Gil M.A., Par-rilla J.L., Vazquez J.L. & Day B.N. 2002.

27 Martinez E.A., Vazquez J.M., Roca J., Lucas X., Gil M.A. & Vazquez J.L. 2001.

28 Martini R. L. 1998.

29 Matthijsa A., Hakze R., Potsma A. & Woelders H. 2000.

30 Matthijsa A., Harkema W., Engel B. & Woelders H. 2000.

68 Tervit H.R., Whittingham D.G. & Rowson L.E.A. 1972.

69 Thompson J.G. 1997.

70 Thompson J.G., Gardner D.K., Pugh P.A., McMillan W.H. & Tervit H.R. 1995.

71 Thompson J.G., Simpson A.C., Pugh P.A., Donnelly P.E. & Tervit H.R. 1990.

72 Thompson J.G., Simpson A.C., Pugh P.A. & Tervit H.R. 1992.

73 Thompson J.G., Simpson A.C., Pugh P.A., Wright R.W. & Tervit H.R. 1991.

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→ PUBLISHED IN A VOLUME SUPPLEMENT:

Pier A.C., Cabañes F.J., Chermette R., Ferreiro L., Guillot J., Jensen H.E. & Santurio J.M. 2000. Prominent animal mycoses from various regions of the world. *Medical Mycology*. 38 (Suppl 1): 47-58.

→ PAPER PUBLISHED IN JOURNAL NUMBER WITHOUT INDICATION OF VOLUME

Turan L., Wredmark T. & Fellander-Tsai I. 1995. Arthroscopic ankle arthrodesis in rheumatoid arthritis. *Clinical of Orthopedic*. (320): 110-114.

→ PAPER PUBLISHED IN ELECTRONIC FORMAT:

Morse S.S. 1995. Factors in the emergence of infectious diseases. *Emerging Infectious Diseases*. 1: 7-15. [Fonte: <<http://www.cdc.gov/ncidod/EID/eid.htm>>].

United States Food and Drug Administration. 2003. Center for Food Safety & Applied Nutrition. *Bacteriological Analytical Manual Online. Salmonella*, 13p. Disponível em: <<http://www.cfsan.fda.gov>>.

→ PAPER IN PRESS:

Mosena A.C.S., Weber M.N., Cibulski, S.P. Paim, W.P., Silva, G.S., Medeiros, A.A.R., Viana, N.A., Baumbach, L.F., Silveira, S., Corbellini, L.G. & Canal C.W. 2019. Survey for pestiviruses in backyard pig farms in Southern Brazil. *Journal of Veterinary Diagnostic Investigation*. [in press].

→ PAPER PUBLISHED IN EVENT PROCEEDINGS:

[authors are required to always include number of event, city and country]

Paim W.P., Puhl D.E., Weber M.N., Cibulski S.P., Budaszewski R.F. & Canal C.W. 2018. An overview in virome of commercial batches of horse serum. In: *XXIX Brazilian Congress of Virology & XIII Mercosur Meeting of Virology* (Gramado, Brazil). pp.113-114.

→ PAPER PUBLISHED IN COLLECTION OR SERIES:

Jellieff D.B. 1968. Evaluación del estado de nutrición dela comunidad. Ginebra: Organizacion Mundial de la Salud. [Serie de Monografias, 53], 201p.

• ABSTRACTS

[Authors are required to always include number of event, city and country]

→ PUBLISHED IN ANNALS:

Bisol J.F.W., Vieira M.J., Keller A., Mattos R.C. & Gregory R.M. 2000. Efeito da adição de antibióticos ao diluente de sêmen resfriado equino na fertilidade de éguas. In: *Resumos do XII Salão de Iniciação Científica da UFRGS* (Porto Alegre, Brasil). p.125.

→ PUBLISHED IN ANNALS OF SEVERAL VOLUMES:

Barcellos D.E.S.N., Razia L.E. & Borowski S.M. 2002. Microagglutination test detecting antibodies against *Bra-chyspira pilosicoli* [paper 537]. In: *Proceedings of the 17th Congress of the International Pig Veterinary Society*. v.2. (Ames, U.S.A.). p.362.

→ PUBLISHED IN JOURNALS:

Reischak D., Costa U.M., Moojen V. & Ravazzolo A.P. 1999. Ovine synovial membrane cell line permissive to *in vitro* caprine lentivirus replication [abstract A-097]. In: *Virológica 99* (Curitiba, Brazil). *Virus Reviews & Research*. 4(1): 81-82.

• THESES / DISSERTATIONS

Dorneles A.S. 2014. Aspergilose em frango de corte: diagnóstico, identificação e caracterização da diversidade genética de *Aspergillus fumigatus*. 32f. Porto Alegre, RS. Tese (Doutorado em Ciências Veterinárias) - Programa de Pós-Graduação em Ciências Veterinárias, Universidade Federal do Rio Grande do Sul.

• BOOKS

[Authors are required to inform city and publishing company of the book]

→ CHAPTER IN BOOK WITH AUTHORSHIP:

Ferreiro L., Spanemberg A., Azevedo M.I., Zanette R.A. & Pereira S.A. 2020. Diagnóstico Micológico. In: Larsson C.E. & Lucas R. (Eds). *Tratado de Medicina Externa - Dermatologia Veterinária*. 2.ed. São Caetano do Sul: Interbook Editorial Ltda., pp.19-72.

→ REFERENCE TO A CHAPTER IN AN EDITED BOOK:

Solomon S.E. & Nascimento V.P. 1994. Hen's eggshell structure and function. In: *The Microbiology of the Avian Egg*. London: Chapman & Hall, pp.1-24.

• TECHNICAL REPORTS / BULLETINS

Instituto Brasileiro de Geografia e Estatística (IBGE). 1982. Censo Demográfico: Dados Distritais. Rio de Janeiro. v.1. IBGE, 20p.

World Health Organization. 1994. Expert Committee on Drug Dependence. Geneva. 29th Report . Geneva. (WHO-Technical Report Series, 856).120p.

• OTHER MODALITIES OF REFERENCES

▪ *Letter to the editor*: **Enzensberger W. & Fischer P.A. 1996.** Metronome in Parkinson's disease. *Lancet*. 347: 1337. [Letter]

▪ *Editorial*: **Singer M.V., Gyr K. & Sarles H. 1985.** Revised classification of peritonitis. *Gastroenterology*. 89: 683-685. [Editorial]

▪ *Editorial*: **Cancer in South Africa/Editorial/. 1994.** *South Africa Medical Journal*. 84: 15. [Editorial]

EXAMPLES OF REFERENCES

JOURNALS

- 1 **Allocati N., Masulli M., Di Ilio C. & Federici L. 2018.** Glutathione transferases: substrates, inhibitors and pro-drugs in cancer and neurodegenerative diseases. *Oncogenesis*. 7(1): 8. DOI: 10.1038/s41389-017-0025-3.
- 2 **Anon J., Singh N.K., Singh H. & Rath S.S. 2021.** Adult bioassay based Amitraz resistance status in *Rhipicephalus microplus* populations of Punjab, India. *Exploratory Animal and Medical Research*. 11(1): 49. DOI: 10.52635/EAMR/11.1.49-54
- 3 **Bain L.J. & LeBlanc G.A. 1996.** Interaction of structurally diverse pesticides with the human MDR1 gene product P-glycoprotein. *Toxicology and Applied Pharmacology*. 141(1): 288-298.
- 4 **Baron S., van der Merwe N.A., Madder M. & Maritz-Olivier C. 2015.** SNP Analysis Infers that Recombination Is Involved in the Evolution of Amitraz Resistance in *Rhipicephalus microplus*. *PLOS ONE*. 10(7): e0131341. DOI: 10.1371/journal.pone.0131341
- 5 **Broehan G., Kroeger T., Lorenzen M. & Merzendorfer H. 2013.** Functional analysis of the ATP-binding cassette (ABC) transporter gene family of *Tribolium castaneum*. *BMC Genomics*. 14(1): 6. DOI: 10.1186/1471-2164-14-6.
- 6 **Castro Janer E., Díaz A., Fontes F., Baraibar F., Saporiti T. & Olhagaray M.E. 2021.** Molecular survey of pyrethroid and fipronil resistance in isolates of *Rhipicephalus microplus*

- in the north of Uruguay. *Ticks and Tick-Borne Diseases*. 12(5): 101747. DOI: 10.1016/j.ttbdis.2021.101747.
- 7 **Coles T.B. & Dryden M.W. 2014.** Insecticide/acaricide resistance in fleas and ticks infesting dogs and cats. *Parasites & Vectors*. 7(1): 8. DOI: 0.1186/1756-3305-7-8
 - 8 **Dantas-Torres F., Fernandes Martins T., Muñoz-Leal S., Onofrio V.C. & Barros-Battesti D.M. 2019.** Ticks (Ixodida: Argasidae, Ixodidae) of Brazil: Updated species checklist and taxonomic keys. *Ticks and Tick-Borne Diseases*. 10(6): 101252. DOI: 0.1016/j.ttbdis.2019.06.012.
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 - 10 **Dermauw W., Osborne E., Clark R.M., Grbić M., Tirry L. & Van Leeuwen T. 2013.** A burst of ABC genes in the genome of the polyphagous spider mite *Tetranychus urticae*. *BMC Genomics*. 14(1): 317. DOI: 10.1186/1471-2164-14-317
 - 11 **Epis S., Porretta D., Mastrantonio V., Comandatore F., Sasseria D., Rossi P., Cafarchia C., Otranto D., Favia G., Genchi C., Bandi C. & Urbanelli S. 2014.** ABC transporters are involved in defense against permethrin insecticide in the malaria vector *Anopheles stephensi*. *Parasites & Vectors*. 7(1): 349. DOI: 10.1186/1756-3305-7-349
 - 12 **Feng X., Li M. & Liu N. 2018.** Carboxylesterase genes in pyrethroid resistant house flies, *Musca domestica*. *Insect Biochemistry and Molecular Biology*. 92: 30-39.
 - 13 **Fernández-Salas A., Rodríguez-Vivas R.I. & Alonso-Díaz M.A. 2012.** First report of a *Rhipicephalus microplus* tick population multi-resistant to acaricides and ivermectin in the Mexican tropics. *Veterinary Parasitology*. 183(3-4): 338-342.
 - 14 **Hernandez E.P., Kusakisako K., Talactac M.R., Galay R.L., Hatta T., Fujisaki K., Tsuji N. & Tanaka T. 2018.** Glutathione S-transferases play a role in the detoxification of flumethrin and chlorpyrifos in *Haemaphysalis longicornis*. *Parasites & Vectors*. 11(1): 460. DOI: 10.1186/s13071-018-3044-9
 - 15 **Jongejan F. & Uilenberg G. 2004.** The global importance of ticks. *Parasitology*. 129(Suppl): S3-S14. DOI: 10.1017/s0031182004005967
 - 16 **Jonsson N.N. 2006.** The productivity effects of cattle tick (*Boophilus microplus*) infestation on cattle, with particular reference to *Bos indicus* cattle and their crosses. *Veterinary Parasitology*. 137(1-2): 1-10.
 - 17 **Jonsson N.N. 2018.** Molecular biology of amitraz resistance in cattle ticks of the genus *Rhipicephalus*. *Frontiers in Bioscience*. 23(2): 796-810.
 - 18 **Klafke G.M., Miller R.J., Tidwell J., Barreto R., Guerrero F.D., Kaufman P.E. & Pérez de León A.A. 2017.** Mutation in the Sodium Channel Gene Corresponds With Phenotypic Resistance of *Rhipicephalus sanguineus sensu lato* (Acari: Ixodidae) to Pyrethroids. *Journal of Medical Entomology*. 54(6): 1639-1642.
 - 19 **Kumar R., Klafke G.M. & Miller R.J. 2020.** Voltage-gated sodium channel gene mutations and pyrethroid resistance in *Rhipicephalus microplus*. *Ticks and Tick-Borne Diseases*. 11(3): 101404. DOI: 10.1016/j.ttbdis.2020.101404
 - 20 **Le Gall V.L., Klafke G.M. & Torres T.T. 2018.** Detoxification mechanisms involved in ivermectin resistance in the cattle tick, *Rhipicephalus (Boophilus) microplus*. *Scientific Reports*. 8(1): 12401. DOI: 10.1038/s41598-018-30907-7
 - 21 **Liu N., Li M., Gong Y., Liu F. & Li T. 2015.** Cytochrome P450s – Their expression, regulation, and role in insecticide resistance. *Pesticide Biochemistry and Physiology*. 120: 77-81.
 - 22 **Mangia C., Vismarra A., Genchi M., Epis S., Bandi C., Grandi G., Bell-Sakyi L., Otranto D., Passeri B. & Kramer L. 2018.** Exposure to amitraz, fipronil and permethrin affects cell viability and ABC transporter gene expression in an *Ixodes ricinus* cell line. *Parasites & Vectors*. 11(1): 437. DOI: 10.1186/s13071-018-3020-4
 - 23 **Mladenović M., Arsić B., Stanković N., Mihović N., Ragno R., Regan A., Miličević J., Trtić-Petrović T. & Micić R. 2018.** The Targeted Pesticides as Acetylcholinesterase Inhibitors: Comprehensive Cross-Organism Molecular Modelling Studies Performed to Anticipate the Pharmacology of Harmfulness to Humans *In Vitro*. *Molecules*. 23(9): 2192. DOI: 10.3390/molecules23092192.
 - 24 **Nagar G., Upadhaya D., Sharma A.K., Kumar R., Fular A. & Ghosh S. 2021.** Association between overexpression of cytochrome P450 genes and deltamethrin resistance in *Rhipicephalus microplus*. *Ticks and Tick-Borne Diseases*. 12(2): 101610. DOI: 10.1016/j.ttbdis.2020.101610
 - 25 **Ozelame K.P.C., Mattia M.M.C., Dedavid e Silva L.A., Randall L.M., Corvo I., Saporiti T., Seixas A., da Silva Vaz I. & Alvarez G. 2022.** Novel tick glutathione transferase inhibitors as promising acaricidal compounds. *Ticks and Tick-Borne Diseases*. 13(5): 101970. DOI: 10.1016/j.ttbdis.2022.101970
 - 26 **Pohl P.C., Carvalho D.D., Daffre S., da Silva Vaz Jr. I. & Masuda A. 2014.** *In vitro* establishment of ivermectin-resistant *Rhipicephalus microplus* cell line and the contribution of ABC transporters on the resistance mechanism. *Veterinary Parasitology*. 204(3-4): 316-322.
 - 27 **Qian W., Liu N., Yang Y., Liu J., He J., Chen Z., Li M. & Qiu X. 2021.** A survey of insecticide resistance-conferring mutations in multiple targets in *Anopheles sinensis* populations across Sichuan, China. *Parasites & Vectors*. 14(1): 169. DOI: 10.1186/s13071-021-04662-0
 - 28 **Rispe C., Hervet C., de la Cotte N., Daveu R., Labadie K., Noel B., Aury J.-M., Thany S., Taillebois E., Cartereau A., Le Mauf A., Charvet C.L., Auger C., Courtot E., Neveu C. & Plantard O. 2022.** Correction: Transcriptome of the synganglion in the tick *Ixodes ricinus* and evolution of the cys-

- loop ligand-gated ion channel family in ticks. *BMC Genomics*. 23(1): 502. DOI: 10.1186/s12864-022-08669-4
- 29 **Roncalli V., Cieslak M.C., Passamanek Y., Christie A.E. & Lenz P.H. 2015.** Glutathione S-Transferase (GST) Gene Diversity in the Crustacean *Calanus finmarchicus* – Contributors to Cellular Detoxification. *PLOS ONE*. 10(5): e0123322. DOI: 10.3390/jmse9091025
 - 30 **Sarli M., Torrents J., Morel N. & Nava S. 2022.** Analysis of sequence variations in the GABA gated chloride gene associated with resistance to fipronil in *Rhipicephalus (Boophilus) microplus* ticks from Argentina. *Ticks and Tick-Borne Diseases*. 13(6): 102030. DOI: 10.1016/j.ttbdis.2022.102030
 - 31 **Selles S.M.A., Kouidri M., González M.G., González J., Sánchez M., González-Coloma A., Sanchis J., Elhachimi L., Olmeda A.S., Tercero J.M. & Valcárcel F. 2021.** Acaricidal and Repellent Effects of Essential Oils against Ticks: A Review. *Pathogens*. 10(11): 1379. DOI: 10.3390/pathogens10111379
 - 32 **Silva Vaz Jr. I., Torino Lermen T., Michelon A., Sanchez Ferreira C.A., Joaquim de Freitas D.R., Termignoni C. & Masuda A. 2004.** Effect of acaricides on the activity of a *Boophilus microplus* glutathione S-transferase. *Veterinary Parasitology*. 119(2-3): 237-245.
 - 33 **Sturm A., Cunningham P. & Dean M. 2009.** The ABC transporter gene family of *Daphnia pulex*. *BMC Genomics*. 10(1): 170. DOI: 10.1186/1471-2164-10-170
 - 34 **Tavares C.P., Sabadin G.A., Sousa I.C., Gomes M.N., Soares A.M.S., Monteiro C.M.O., Vaz Jr. I.S. & Costa-Junior L.M. 2022.** Effects of carvacrol and thymol on the antioxidant and detoxifying enzymes of *Rhipicephalus microplus* (Acari: Ixodidae). *Ticks and Tick-Borne Diseases*. 13(3): 101929. DOI: 10.1016/j.ttbdis.2022.101929
 - 35 **Temeyer K.B., Olafson P.U. & Miller R.J. 2009.** Genotyping Mutations in BmAChE3: A Survey of Organophosphate-Resistant and -Susceptible Strains of *Rhipicephalus (Boophilus) microplus*. *Journal of Medical Entomology*. 46(6): 1355-1360.
 - 36 **Temeyer K.B., Pruett J.H. & Olafson P.U. 2010.** Baculovirus expression, biochemical characterization and organophosphate sensitivity of rBmAChE1, rBmAChE2, and rBmAChE3 of *Rhipicephalus (Boophilus) microplus*. *Veterinary Parasitology*. 172(1-2): 114-121.
 - 37 **Villarino M.A., Waghela S.D. & Wagner G.G. 2003.** Biochemical Detection of Esterases in the Adult Female Integument of Organophosphate-Resistant *Boophilus Microplus* (Acari: Ixodidae). *Journal of Medical Entomology*. 40(1): 52-57.
 - 38 **Wang K., Liu M., Wang Y., Song W. & Tang P. 2020.** Identification and functional analysis of cytochrome P450 CYP346 family genes associated with phosphine resistance in *Tribolium castaneum*. *Pesticide Biochemistry and Physiology*. 168: 104622. DOI: 10.1016/j.pestbp.2020.104622
 - 39 **Yawa M., Nyangiwe N., Jaja I., Marufu M. & Kadzere C. 2022.** Acaricide resistance of *Rhipicephalus decoloratus* ticks collected from communal grazing cattle in South Africa. *Journal of Advanced Veterinary and Animal Research*. 9(1): 33. DOI: 10.5455/javar.2022.i566
 - 40 **Yu F.H. & Catterall W.A. 2003.** Overview of the voltage-gated sodium channel family. *Genome Biology*. 4(3): 207. DOI: 10.1186/gb-2003-4-3-207
 - 41 **Zhao X., Salgado V.L., Yeh J.Z. & Narahashi T. 2003.** Differential Actions of Fipronil and Dieldrin Insecticides on GABA-Gated Chloride Channels in Cockroach Neurons. *Journal of Pharmacology and Experimental Therapeutics*. 306(3): 914-924.
 - 42 **Zhao X., Yeh J.Z., Salgado V.L. & Narahashi T. 2005.** Sulfone Metabolite of Fipronil Blocks γ -Aminobutyric Acid- and Glutamate-Activated Chloride Channels in Mammalian and Insect Neurons. *Journal of Pharmacology and Experimental Therapeutics*. 314(1): 363-373.
 - 43 **Zheng Y., Priest B., Cully D.F. & Ludmerer S.W. 2003.** RdIDv, a novel GABA-gated chloride channel gene from the American dog tick *Dermacentor variabilis*. *Insect Biochemistry and Molecular Biology*. 33(6): 595-599.
 - 44 **Zhou X., Hohman A.E. & Hsu W.H. 2022.** Current review of isoxazoline ectoparasiticides used in veterinary medicine. *Journal of Veterinary Pharmacology and Therapeutics*. 45(1): 1-15. DOI: 10.1111/jvp.12959

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