



Curriculum Vitae

Full Name: Behnam Mohammadi-ghalehbin

Education: PhD

Designation: **Medical Parasitology**

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Personal

- Date of birth: 25-10-1967
- Place of birth: Talesh, Guilan, Iran
- Sex: Male
- Nationality: Iranian
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- Child: 2

Education

- **PhD:** Medical Parasitology, School of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran (April, 2012). (Average: 18.91 from 20)
- **MSc:** Medical Parasitology, School of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran (March, 2005). (Average: 18.51 from 20)
- **BSc:** Clinical Laboratory, School of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran. (Average: 17.88 from 20)
- **ASc:** Clinical Laboratory, Mazandaran University of Medical Sciences, Babol, Iran.

Thesis Title

MSc degree: Study on *Cryptosporidium* Polymorphism among isolated parasites from man, animal reservoirs and water resources by using PCR-RFLP in Ardabil province

PhD degree: Evaluation of immune responses induced by fucose-mannose ligand (FML) antigen of *Leishmania infantum* in ownership dogs from Meshkin-Shahr area

Publications

1. Mohammadi Ghalehbin B, Arzanlou M, Fallah E, Kazemi A H, Asgharzadeh M. Molecular Identification of *Cryptosporidium* Sp. In the Cattle Stool Samples in Ardabil City, Northwestern Iran. *J A V A*. 2008; 7 (3): 246-250.
2. Mohammadi Ghalebin B, Fallah E, Asgharzadeh M, Kazemi A H, Arzanlou M. Detection and Identification of *Cryptosporidium* Species in Water Samples from a River in Ardabil City, Northwestern Iran. *R J B S*. 2007; 2 (4): 498-502.
3. Behnam Mohammadi ghalehbin, Esmaeil fallah, mohammad asgharzadeh, Abdolhosein kazemi, firooz amani, rohollah arab. Prevalence study of *cryptosporidium* in 6 months to 6 years old children, suffering from gastroenteritis and hospitalized in Ardabil hospitals. *JAUMS*. 2006; 2: 176-182. (In Persian).
4. Mohammadi Ghalebin B, Fallah E, Asgharzadeh M, Kazemi A H. Detection of *Cryptosporidium* Species in Water Resources of Ardabil Province by PCR, RFLP. *JAUMS*. 2007; 7(2): 177-183. (In Persian).
5. Mohammadi-Ghalehbin B, Hatam GR, Sarkari B, Mohebali M, Zare Z, Jaberipour M, Bohlouli S. A *Leishmania Infantum* FML-ELISA for the Detection of Symptomatic and Asymptomatic Canine Visceral Leishmaniasis in an Endemic Area of Iran. *Iran J Immunol*. 2011 Dec; 8(4): 244-50.

6. Behnam Mohammadi-Ghalehbin, Mir Mehdi Chinifroush-Asl and Fatemeh Ramzi. Extra-hepatic fascioliasis with peritoneal malignancy tumor feature. *Journal of Parasitic Diseases*. 2012; 36(1):78-80.
7. Elham Jannati , Mohsen Arzanlou , Shahram Habibzadeh , , Saeed Mohammadi , Parisa Ahadi , Behnam Mohammadi-Ghalehbin , Hadi Peeri Dogaheh , Solmaz Dibah , Ebrahim Kazemi. Nasal colonization of *mecA*-positive, oxacillin-susceptible, methicillin-resistant *Staphylococcus aureus* isolates among nursing staff in an Iranian teaching hospital. *American Journal of Infection Control*. Volume 41, Issue 11, November 2013, Pages 1122-1124
8. Moradi Asl E , Mohebbali M , Mohammadi-ghalehbin B* , Ganji A , Molaei S , Mehrivar R , Zareei Z. Study on Changes in Epidemiological Patterns and Parameters of Visceral Leishmaniasis in Patients Referred to Health Care Centers of Meshkin Shahr during 2001-2012: (A Retrospective Study). *Journal of Ardabil University of Medical Sciences*. Vol.14, No.1, Spring 2014, Pages 63-70.
9. Mohammadi-ghalehbin B, et al. Recognition of Pathogenic Free-Living Amoebae in the Surface Water in Shiraz, Iran. *JHSSSS*.2014.2(4). 164-167.
10. Niapour, N., Mohammadi-Ghalehbin, B., Golmohammadi, M.G. *et al.* An efficient system for selection and culture of Schwann cells from adult rat peripheral nerves. *Cytotechnology* **68**, 629–636 (2016). <https://doi.org/10.1007/s10616-014-9810-4>.
11. Nazila Niapour, Behnam Mohammadi-Ghalehbin, Mohammad Ghasem Golmohammadi, Mohammad Amani, Hossein Salehi, Ali Niapour. Efficacy of optimized in vitro predegeneration period on the cell count and purity of canine Schwann cell cultures. *Iran J Basic Med Sci*. 2015. 18(3): 307-311.
12. Mohammadi-ghalehbin B , Rahimi K , Pezeshki A* , Amani F , Azghani P , Asghari S , Raeisi E , Mirzanejad-asl H. Frequency of *Trichomonas Vaginalis* Infection among Pregnant Women Referred to Health and Medical Centers in Ardabil City, 2013-2014. *Journal of Ardabil University of Medical Sciences*. Vol.15, No.1, Spring 2015, Pages 75-82.
13. Molaei S , Dalimi A* , Mohebbali M , Zareei Z , Mohammadi-Ghalehbin B, Akhondi B , Azarm A. Study of Canine Visceral Leishmaniasis in Symptomatic and Asymptomatic Domestic Dogs in Meshkinshahr City, Iran. *Journal of Ardabil University of Medical Sciences*. Vol. 16, No. 1, Spring 2016, Pages 105-115.
14. Sedigheh Shirmohammad, Mehdi Mohebbali, Behnam Mohammadi ghalehbin, et al. Human visceral leishmaniasis: Seroprevalence survey of asymptomatic adults in an endemic area of Northwestern Iran. *J Biostat Epidemiol*. 2016; 2(3): 136-42.
15. Azizeh Farshbaf-Khalili, Behnam Mohammadi-Ghalehbin, Mahnaz Shahnazi, Soltan Asghari, Yusef Javadzadeh, and Payman Azghani. Comparing the Effect of Garlic, *Zataria multiflora* and Clotrimazole Vaginal Cream 2% on

- Improvement of Fungal Vaginitis: A Randomized Controlled Trial. *Iran Red Crescent Med J.* 2016 December; 18(12):e29262.
16. Mohammadi-Ghalehbin B , Javanpour Heravi H , Arzanlou M , Sarvi MR. Prevalence and Antibiotic Resistance Pattern of *Candida* spp. Isolated from Pregnant Women Referred to Health Centers in Ardabil, Iran. *Journal of Ardabil University of Medical Sciences.* Vol. 16, No. 4, Winter 2017, Pages 409-421.
 17. Sarkari B, Parhoudeh M, ... , Mohammadi Ghalehbin B. Genetic diversity of *Fasciola* spp. isolates from northern part of Iran: comparison with southwestern isolates. *Journal of Parasitic Diseases.* 2017; 1-5.
 18. PEZESHKI A, HANILOO A, ALEJAFAR A, MOHAMMADI-GHALEHBIN B. Detection of *Toxocara* spp. Eggs in the Soil of Public Places in and Around of Ardabil City, Northwestern Iran. *Iran J Parasitol.* 2017;12(1):136-142.
 19. Behnam Mohammadi-Ghalehbin, Ali Pezeshki, Mohammad Hasan Kohansal , Ghodsie Esmailnezhad. Frequency of Intestinal Parasites in Patients with Malignancy in Ardabil Province, Northwest Iran. *J. Hum. Environ. Health Promot.* 2017; 2(2):118- 124.
 20. Mohammadi-Ghalehbin, B., Hatam, G., Sarkari, B., Mohebali, M., Zarei, Z., Bohlooli, S. Cytokine Profile of *Leishmania Infantum* Fucose-Mannose Ligand in Vaccinated Dogs in the Northwest of Iran. *Iranian Journal of Immunology*, 2017; 14(4): 293-305.
 21. Mohammadi-Ghalehbin, B., Habibzadeh, S., Arzanlou, M., Teimourpour, R., Amani Ghayum, S. Colonization of *Pneumocystis jirovecii* in Patients who Received and not Received Corticosteroids Admitted to the Intensive Care Unit: Airborne Transmission Approach. *Iranian Journal of Pathology*, 2018; 13(2): 136-143. doi: 10.30699/ijp.13.2.136.
 22. Khademi, Farzad; Yousefi-Avarvand, Arshid; Sahebkar, Amirhossein, Mohammadi-Ghalehbin, Behnam; Arzanlou, Mohsen; Peeridogaheh, Hadi. Drug resistance of clinical and environmental isolates of *Brucella* species in Iran: a meta-analysis. *Reviews in Medical Microbiology* 29(4):p 166-172, October 2018. | DOI: 10.1097/MRM.000000000000148.
 23. Niapour A, Bohlooli S, Sharifi Pasandi M, Mohammadi-ghalehbin B. In vitro Anti Leishmanial Effect of *Agrostemma githago* Extract on *Leishmania* Major Promastigotes by Cell Count and MTT Assay. *J Mazandaran Univ Med Sci* 2018; 28 (165) :13-23.
 24. Heidari-Kharaji M, Fallah-Omrani V, Badirzadeh A, Mohammadi-Ghalehbin B, Nilforoushzadeh MA, Masoori L, Montakhab-Yeganeh H, Zare M. *Sambucus ebulus* extract stimulates cellular responses in cutaneous leishmaniasis. *Parasite Immunol.* 2019 Jan;41(1):e12605
 25. Heidari Z , Seyedhashemi R , Mohammadi-Ghalehbin B. A Study on the Frequency of Intestinal Parasites in Patients Referred to Laboratories of Two Hospitals Affiliated with Ardabil University of Medical Sciences In 2018. *Journal of Ardabil University of Medical Sciences.* Vol. 18, No. 4, Winter 2019, Pages 463-469.
 26. Niapour A , Amirshahrokhi K , Azari Rad M , Mohammadi-ghalehbin B. Evaluation of the Paraquat Effect on *Leishmania* major Promastigotes and HUVECs Viability under in vitro Condition. *Journal of Ardabil University of Medical Sciences.* Vol. 19, No. 1, Spring 2019, Pages 61-70.

27. Amirshahrokhi K , Mohammadi-ghalehbin B , Miran M , Jabari E. Protective Effect of Rosa Canina against Gastric Ulcer Induced by NSAIDs. Journal of Ardabil University of Medical Sciences. Vol. 19, No. 2, Summer 2019, Pages 216-226.
28. Mousavi SH, Peeri-Doghaheh H, Mohammadi-Ghalehbin B, Teimourpour R, Maleki D, Khademi F, Arzanlou M. High-level resistance to aminoglycosides and ampicillin among clinical isolates of Enterococcus species in an Iranian referral hospital. Iran J Microbiol. 2020;12(4):319-324.
29. Behnam Mohammadi-ghalehbin, Sima Najafi, and Nima Razzaghi-Asl. Synthesis and antileishmanial effect of a few cyclic and non-cyclic n-aryl enamino amide derivatives. RPS. 2020; 15(4): 340-349.
30. H. Esmaeili , S. Noroozadeh , B. Mohammadi-Ghalehbin , S.M. Mousavi , A. Niapour . Effect of Tranexamic Acid on Migration Ability and Level of Matrix Metalloproteinases-2 and -9 of T98G and HUVEC Cells in Co-Culture Conditions. J Babol Univ Med Sci; 22; 2020; PP: 402-411.
31. Ahdeno S , Razzaghi-Asl N , Mohammadi-ghalehbin B. Design of Potential Anti-Leishmanial Pharmacophores via In Silico Drug Repurposing. Journal of Ardabil University of Medical Sciences. Vol. 20, No. 3, Autumn 2020, Pages 372-396.
32. Moradi-Asl, E., Ghalehbin, B.M., Akbarzadeh, K., Mohammad-Shahi, J. and Afshin, H., 2021. Wound myiasis caused by lucilia cuprina (Diptera; Calliphoridae) in Ardabil province, northwest of Iran. *Punjab Univ. J. Zool.*, **36**(1): 21-23.
33. Heidari Z, Mohammadi-Ghalehbin B, Alizadeh Z, Molaei S, Peeri Dogaheh H, Mirzanejad-Asl H. Seroprevalence of Human Hydatidosis in Ardabil Province, North-West of Iran. Iran J Parasitol. 2021;16(4):593-600.
34. Mohammadi-Ghalehbin, B., Sepehri, S., Nejatkhah, N. *et al.* Synthesis, Antileishmanial Activity and Molecular Docking Study of New 3,4-Dihydropyrimidinones/Thiones. *Pharm Chem J* **55**, 1050–1056 (2022). <https://doi.org/10.1007/s11094-021-02536-4>.
35. Adel Spotin , Behnam Mohammadi-ghalehbin^a, Mahmoud Mahami-Oskouei , Majid Karamat . Gene migration of giardiasis in Iran; a microevolutionary scale for reflecting transmission patterns of Giardia lamblia assemblages in symptomatic patients. Microbial Pathogenesis. Volume 162, January 2022, 105359.
36. Heidari Z, Alizadeh Z, Afzoun Khiyavi H, Molaei S, Mahdavi A, Mohammadi-Ghalehbin B. Seroprevalence of Human Toxocariasis in Children (5–15-Year-Old) Using ELISA Method in Ardabil District, North-West of Iran. Iran J Parasitol. 2022;17(1):10-17.
37. Shams M, Shamsi L, Asghari A, Motazedian MH, Mohammadi-Ghalehbin B, Omidian M, Nazari N, Sadrebazzaz A. Molecular Epidemiology, Species Distribution, and Zoonotic Importance of the Neglected Meat-Borne Pathogen Sarcocystis spp. in Cattle (Bos taurus): A Global Systematic Review and Meta-analysis. Acta Parasitol. 2022 Sep;67(3):1055-1072.
38. Shams M, Shamsi L, Yousefi A,..., Mohammadi-Ghalehbin B, et al. Current global status, subtype distribution and zoonotic significance of Blastocystis in dogs and cats: a systematic review and meta-analysis. Parasites & Vectors. 2022.
39. Ali Asghari , Farzad Mahdavi , Laya Shamsi, Mohammad Hossein Motazedian , Qasem Asgari , Saeed Shahabi , Behnam Mohammadi-

- Ghalehbin , Alireza Sadrebazzaz. Prevalence and molecular characterization of *Giardia duodenalis* in small ruminants of Shiraz, southwestern Iran: A zoonotic concern. *Comparative Immunology, Microbiology and Infectious Diseases*. Volume 86, July 2022, 101819.
40. Asghari A, Motazedian MH, Asgari Q, Shamsi L, Sarkari B, Shahabi S, et al. Occurrence, genetic characterization, and zoonotic importance of *Giardia duodenalis* in various species of rodents (*Mus musculus*, *Rattus norvegicus*, and *Rattus rattus*). *Comparative Immunology, Microbiology and Infectious Diseases*. 2022;85:101812.
 41. Parastoo Ashouri , Jafar Mohammadshahi , Vajihe Sadat Nikbin , Hadi Peeridogaheh , Behnam Mohammadi-Ghalehbin , Soheila Refahi , Amir Teimourpour , Majid Esmaelizad , Hafez Mirzaneghad , Roghayeh Teimourpour. Antimicrobial Resistance, Integron Carriage, and Fluoroquinolone Resistance Genes in *Acinetobacte baumannii* Isolates. 2022. *Archives of Clinical Infectious Diseases*: Vol.17, issue 5; e120590
 42. Alizadeh Z, Mirzanejad asl H, Mohammadi ghalebin B, Heidari Z. Investigation of Parasitic Helminthes Infections of Fish caught from Aras River. *J Ardabil Univ Med Sci* 2022; 22 (3) :250-258.
 43. Mohammadi-Ghalehbin, B., Shiran, J.A., Gholizadeh, N. *et al.* Synthesis, antileishmanial activity and molecular modeling of new 1-aryl/alkyl-3-benzoyl/cyclopropanoyl thiourea derivatives. *Mol Divers* (2022). <https://doi.org/10.1007/s11030-022-10508-3>.

Presentations

1. **Behnam Mohammadi ghalehbin**, Esmail fallah, mohammad asgharzadeh, Abdolhosein kazemi, fiروز amani, rohollah arab. Prevalence study of cryptosporidium in 6 months to 6 years old children, suffering from gastroenteritis and hospitalized in Ardabil hospitals. 5th National Congress of Parasitology and Parasitic Diseases in Iran Tehran, Iran; 15-18 Nov, 2005.
2. **Behnam Mohammadi ghalehbin** , Mir Mehdi Chinifroush, Mohsen Arzanlou, Elham Gholipour, Zahra Baghaei. Geographical Distribution of Patient with Hydatid Cyst and Hospitalized in Ardabil Fatemi Hospital. National Congress on Hydatid Cyst. 9-10 May 2007 Yasuj, Iran.
3. **Mohammadi Ghalehbin B**, Arzanlou M, Fallah E, Kazemi A H, Asgharzadeh M. Molecular Identification of *Cryptosporidium* Sp. In the Cattle Stool Samples in Ardabil City. 6th National and the First Regional Congress of Parasitology and Parasitic Diseases in Iran Karaj, Iran; 28-30 May, 2008.

4. **Fallah E, Mohammadi Ghalehbin B, Asgharzadeh M, Kazemi A H. Diagnosis and Identification of Cryptosporidium Sp. in Water Samples from Rivers of Ardabil Districts. 6th National and the First Regional Congress of Parasitology and Parasitic Diseases in Iran Karaj, Iran; 28-30 May, 2008.**
5. **Fallah E, Mohammadi Ghalehbin B, Asgharzadeh M, Kazemi A H, Nokhahi I, Mehdi Pourzare N. Study on Cryptosporidium Polymorphism among isolated parasites from man, animal reservoirs and water resources by using PCR-RFLP in Ardabil province. 6th National and the First Regional Congress of Parasitology and Parasitic Diseases in Iran Karaj, Iran; 28-30 May, 2008.**
6. **Behnam Mohammadi ghalehbin, Arzanlou M, Pourashouri H. Sensitivity survey of molecular method (Nested-PCR) in comparison with staining methods for identification of Pneumocystis in animal model. Infectious Diseases & Tropical Medicine. 2008; p 63. The 5th Collegiate Congress of Fasa University of Medical Sciences, 23-24 December 2008.**
7. **B. Mohammadighalehbin1, S.M.Sadjjadi1, K. Hatamnahavandi1. A study on the existence of human pathogenic nematode larvae of earthworms in Shiraz, Iran. Iranian J Parasitol Supplementary Issue, Vol. 5, S1, 108. 2010. Seventh National and the Second Regional Congress of Parasitology and Parasitic Diseases in Iran Tehran, Iran; 19-21 Oct, 2010. (Oral)**
8. **Mohammadighalehbin B., Hatam G.R., Motazedian M.H., Habibi P., Kamarloie S., ghobakhloo N., foroughiparvar F. Isolation, cultivation and morphological identification of pathogen free-living amoebae in superficial water in shiraz, iran. Iranian J Parasitol Supplementary Issue, Vol. 5, S1, 41. 2010. Seventh National and the Second Regional Congress of Parasitology and Parasitic Diseases in Iran Tehran, Iran; 19-21 Oct, 2010.**
9. **Mohammadighalehbin B, Chinifroush Asl M M, Ramzi F. ECTOPIC FASCIOLIASIS OR PERITONEAL MALIGNANCY TUMORS? (CASE REPORT). Iranian J Parasitol Supplementary Issue, Vol. 5, S1, 117. 2010. Seventh National and the Second Regional Congress of Parasitology and Parasitic Diseases in Iran Tehran, Iran; 19-21 Oct, 2010. (The first top selected poster).**
10. **Manouchehri Naeini K, Asadi M, Mohammadi Ghalebin B, Hashemzadeh M. DETECTION AND CHARACTERIZATION OF CRYPTOSPORIDIUM SPP. IN RECREATIONAL WATERS FROM CHAHARMAHAL VA BAKHTIYARI PROVINCE USING NESTED-PCR-RFLP METHOD. Iranian J Parasitol Supplementary Issue, Vol. 5, S1, 22. 2010. Seventh National and the Second Regional Congress of Parasitology and Parasitic Diseases in Iran Tehran, Iran; 19-21 Oct, 2010.**
11. **Mahmoodreza Moein, Raziieh Taghavi, Behnam Mohammadi, Gholamreza Hatam. ANTILEISHMANIAL ACTIVITY OF JUNIPERUS EXCELC. CIPAM 2011, 13th-15th April 2011 – Cagliari Italy.**

12. **Behnam Mohammadi-Ghalehbin**, Mohsen Arzanlou, Shahram Habibzadeh, Alireza Samani, Samira Saadat-nazarian, Masoume Najafi. Comparison of Molecular and Microscopy Methods for Identification of Pneumocystis in Bronchoalveolar Lavage Samples in ICU Hospitalized Patients. *Iranian J Publ Health*, Vol. 40, Supplementary Issue 1, 2011. Proceedings of “7th National Congress of Zoonotic Diseases” Yasuj, Iran, 17-19 May 2011.
13. **Behnam Mohammadi-ghalehbin**, Gholamreza Hatam, Bahador Sarkari, Mehdi Mohebbali, Zabih Zarei, Mansoureh Jaberipour, Shahab Bohlouli. Detection of symptomatic and asymptomatic canine visceral leishmaniasis by Leishmania infantum Fucose-Mannose Ligand-ELISA in an endemic area in Iran. *Tropical medicine and international health*.2011; 16(Supp.1): 242. 7th European congress on tropical medicine and international health. 3-6 October 2011. Barcelona, Spain.
14. **Behnam Mohammadi-ghalehbin**, Gholamreza Hatam, Bahador Sarkari, Mehdi Mohebbali, Zabih Zarei, Mansoureh Jaberipour, Shahab Bohlouli. Asymptomatic dogs play main role in spread of canine visceral leishmaniasis in endemic area. 2nd International Symposium on Zoonoses & Emerging Infectious Diseases. 15 – 16 December 2011. University Malaysia Sarawak. Malaysia.
15. **Bahrami Somaye**, Hatam Gholamreza, Razavi Seyed Mostafa, Oryan Ahmad, Mohammadi-Ghalehbin Behnam. Ultra structure study of promastigotes and axenic amastigotes of *leishmania tropica*. 17th Iranian Veterinary Congress. 28-30 April 2012, Tehran, Iran. (In Persian).
16. **Bahrami Somaye**, Hatam Gholamreza, Razavi Seyed Mostafa, Mohammadi-Ghalehbin Behnam, Nazifi Saeid. Production of axenic amastigotes of *leishmania tropica* and survey of anti-oxidant changes in different stages of growth. 17th Iranian Veterinary Congress. 28-30 April 2012, Tehran, Iran. (In Persian).
17. **Mohammadi-Ghalehbin Behnam** , Emdadi Dariush, Barak Manouchehr. Seroepidemiology of visceral leishmaniasis in Ardabil province during 2002-2011. The 13th Iranian & the Second International Congress of Microbiology.14-16 July 2012. Ardabil University of Medical Sciences. Ardabil. Iran.
18. **Mohammadi-Ghalehbin Behnam**, Chinifroush Asl Mir Mehdi, Feizi Iraj. Choledochal duct obstruction in human by Fasciola hepatica. 8th Congress of Parasitology and Parasitic Diseases in Iran. Kerman University of Medical Sciences. Kerman. Iran.
19. **Behnam Mohammadi-Ghalehbin**, Gholamreza Hatam, Bahador Sarkari, Mehdi Mohebbali, Zabih Zarei. Leishmania infantum Fucose-Mannose Ligand-Saponin induce the production of IFN γ in vaccinated dogs. 8th

**Congress of Parasitology and Parasitic Diseases in Iran. Kerman
University of Medical Sciences. Kerman. Iran**

Executive responsibilities

- 1) Head of the Zoonoses Research Center, Ardabil University of Medical Sciences**
- 2) Vice-Dean for Education Faculty of paramedicine, Ardabil University of Medical Sciences**
- 3) Executive manager of Journal of Ardabil University of Medical Sciences**

Awards and appreciation

- **1) Top PhD student at School of Medicine, Shiraz University of Medical Sciences (2010)**
- **Top student among PhD students of Shiraz University of Medical Sciences (2010)**
- **The top selected poster presented in Seventh National and the Second Regional Congress of Parasitology and Parasitic Diseases in Iran, Tehran, Iran; 19-21 Oct, 2010. ECTOPIC FASCIOLIASIS OR PERITONEAL MALIGNANCY TUMORS?**

Habits

- 1. Nature**
- 2. Animals**
- 3. Gardening**
- 4. Swimming**