



CURRICULUM VITAE

Full Name: Abdul-Lateef Molan (BSc., MSc., PhD, FRSB)

Nationality: Iraqi

Marital Status: Married (with 3 sons and one daughter)

Present Position: Professor (Full Professor since 1995)

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Qualifications:

PhD	Parasitology , University of Wales, United Kingdom, 1984. Thesis: “Studies on the Development of <i>Microphallus pygmaeus</i> in Laboratory Final Hosts”.
MSc	Parasitology , University of Baghdad, Iraq, 1977. Thesis: “The efficacy of two drugs on <i>Leishmania donovani</i> in the golden hamsters and white mice”.
BSc	Zoology , University of Mosul, Iraq, 1975.

Professional Experience:

December 2012-Present: Full Professor of Medical Parasitology/Medical Entomology,
Department of Biology, College of Sciences, Diyala University, Diyala, Iraq.

August 2004 – December 2012: Senior Research Scientist, Institute of Food, Nutrition and
Human Health, College of Health, Massey University, Palmerston North,
New Zealand.

- October 1996–August 2004:** Research Scientist, Nutrition and Behaviour Group, AgResearch Limited, Grasslands Research Centre, Palmerston North, New Zealand.
- June 1995** Promoted to Professor in Parasitology, Faculty of Medicine and Health Sciences, University of Sana'a, Republic of Yemen.
- 1991-1995** Assistant Professor and Head of Parasitology Department, Faculty of Medicine and Health Sciences, University of Sana'a, Republic of Yemen.
- 1988-1991** Assistant Professor, Department of Biology, Faculty of Education, University of Salahaddin, Erbil, Iraq.
- 1984-1988** Lecturer, Department of Biology, Faculty of Education, University of Salahaddin, Erbil, Iraq.

Brief Overview:

Over the course of my academic career, I have produced a substantial number of quality research outcomes. The following is a list of the most significant of my research outcomes and achievements:

- Published **more than 100** peer-reviewed journal papers in various international journals.
- Senior author of **9 text** books in Medical Parasitology and Medical Entomology.
- Translated **two** text books in Parasitology and Immunology from English to Arabic language.
- Published **two** chapters in international books.
- **Sixteen** papers published in referred conference proceedings.
- **Twenty three** conference contributions.
- Discovered **seven** novel parasites (one of them carries my name; *Vamperolepis molani*).
- Discovered **four** novel phenolic compounds from different medicinal plants grown in New Zealand.
- Member of the Editorial Boards of two international journals; **The Scientific World Journal** and the **International Journal of Agriculture Sciences** (Bioinf).
- A reviewer for **13** different scientific journals.
- Acted as an external examiner for **twenty** postgraduate students up to the level of PhD.

- Attracted funding from **6** funding bodies in the form of contracts [Fonterra, DairyGold, Aragorn Ltd (Zespri group), HortResearch/Plant and Food, Four Leaf Japan Co., Ltd and the Just The Berries].
- I have successfully supervised **15** Masters, and 5 PhD students in Iraq and New Zealand.
- **Number of citations as shown by Google Scholar is: 2737 (Two thousands and seven hundred and thirty seven citations).**
- **H-Index= 26**
- **Researchgate score: 30.08**
- **In October 2016, I have been elected as a Fellow of the Royal Society of Biology.**

Research Areas and Interests:

1. Antimicrobial and anti-parasitic activities of polyphenolic compounds extracted from different herbs, forages and fruits using *in vitro*, *ex vivo* and *in vivo* animal models and humans.
2. Bacteria versus parasites: Evaluation of the inhibitory effects of bacteriocins generated by beneficial bacteria such as lactobacilli and bifidobacteria on parasites and pathogenic bacteria *in vitro* and *in vivo*.
3. Biological activities (antimicrobial, prebiotic and free-radical scavenging) of agro-industrial by-products.
4. Breast cancer research using *in vitro* angiogenesis assays and 7, 12-Dimethylbenz anthracene (DMBA)-induced breast carcinogenesis animal model.
5. Antidiabetic effects of extracts from medicinal plants using *in vitro* assays and animal models.
6. Parasites and cancer.

Honours/Distinctions/Membership of societies:

- Who's who in the World (Biology) 2002, 2004, and 2005?
- Exceptional Performance Award, 2002, AgResearch Limited, Grasslands Research Centre, Palmerston North, New Zealand.
- Scholarship from the New Zealand Horticulture Scholarship for China (NZHSC). I was part of a delegation to visit five Chinese Universities in June 2007.

- Member of the Editorial Board of two International Journals (**The Scientific World Journal and the Journal of Animal Science Advances**).
- Reviewer for the following journals:
 1. International Journal of Food Sciences and Nutrition.
 2. Pharmaceutical Biology.
 3. British Journal of Nutrition.
 4. International Journal for Vitamin and Nutrition Research.
 5. Journal of Food Composition and analysis.
 6. The Journal of the Science of Food and Agriculture.
 7. The Animal Feed Science and Technology.
 8. Livestock Science.
 9. Animal Production Science.
 10. Journal of Agricultural and Food Chemistry.
 11. International Journal of Food Science and Technology.
 12. Journal of the Association of Arab Universities for Basic and Applied Sciences.
 13. Diyala Journal of Pure Sciences.
- External examiner for international funding proposals.
- Two grants (Massey University International Visitor Research Fund) to host two international visiting scientists, from USA and Iraq.
- Invitations from two reputable publishers to submit chapters in books.
- Member of the International Blackcurrant Association (IBA).
- Member of the Scientific Committee of the International Blackcurrant Association (IBA) since 2008.
- Member of the Nutrition Society of New Zealand.

International Collaborations:

Research collaboration has been established with academic staff from the following institutions:

1. University of Illinois at Urbana-Champaign, USA.
2. Indian Council of Agricultural Research, Hyderabad, India.
3. MRC Human Genetics Unit, Western General Hospital, Edinburgh, United Kingdom.

4. Chunbuk National University (South Korea).

Previous and Current Teaching:

I have more than 20 years teaching experience. I have taught a variety of biological subjects (at both undergraduate and postgraduate levels) in four different Universities [University of Wales (UK), Diyala University (Iraq), University of Sana'a (Yemen) and Massey University (New Zealand)]:

1. Research Methods (postgraduate).
2. General Biology (undergraduate).
3. General Zoology (undergraduate).
4. Invertebrate Biology (undergraduate).
5. Medical Parasitology (undergraduate and postgraduate).
6. Medical Entomology (undergraduate and postgraduate).
7. Immunology (undergraduate).
8. Essentials of Mammalian Biology (undergraduate).

Discoveries:

1. Seven novel parasites (one of them carries my name; *Vamperolepis molani*) have been identified during collaborative work with Japanese scientists on the parasites of vertebrates.
2. Four novel polyphenolic compounds from herbs and medicinal plants.

Books

(A): Authored Books (In Arabic):

- 1- Essentials of Practical Medical Parasitology (Senior Author).
- 2- Parasitology (The parasitic Protozoa and Platyhelminthes). Al-Hekma Publishing House, Mousel, Iraq, 1990, 367 pp. (Senior Author).
- 3- Parasitology (The parasitic Nematoda, Acanthocephala and Arthropoda). Al-Hekma Publishing House, Mousel, Iraq, 1990, 274 pp. (Senior Author).
- 4- Practical Medical Parasitology. Abadi Centre for Studies and Publication, Sanaa, Republic of Yemen, 1995 (Single authored).

(B): Authored Books (In English):

1. **Molan, A.L.** and Faraj, A.M. (2010). *Concise Medical Parasitology*. Shabab Printing House, Erbil, Iraq.
2. **Molan, A.L.** and Faraj, A.M. (2016). *Concise Medical Parasitology*. Second Edition. Shabab Printing House, Erbil, Iraq.
3. **Molan, A.L.**, Faraj, A.M. and Hiday, A. (2012). *Practical Medical Entomology*. Shabab Printing House, Erbil, Iraq.
4. **Molan, A.L.** and Al-Bayati, N.Y. (2015). *Six hundred and 24 questions and answers in Medical Parasitology and Medical Entomology*. Central Printing House, Diyala University, Diyala, Iraq.
5. **Molan, A.L.** (2015). *Two hundred and seventy six (276) questions and answers in Invertebrates*. Central Printing House, Diyala University, Diyala, Iraq.

(C): Translated Books (from English to Arabic) (Two):

1. Frogs as Host Parasites System.
2. Immunity to Parasites.

Chapters in International Books (Two):

Molan, A.L., Liu, Z. and Wei, W.H. (2009). Teas are not all the same: *In vitro* and *in vivo* antioxidant activity and appetite modulation in rats of green teas with high and low levels of organic selenium. 'In' Helen McKinley and Mark Jamieson (eds). *Hand Book of Green Tea health Research*. Nova Science Publisher, White Cross Mills, UK: 105-124.

Molan, A.L., Lila, M.A. and Ravindran, G. (2010). Blueberries: Genotype-dependent variation in antioxidant, free-radical scavenging, and prebiotic activities. In ' A. Mendez-Vilas. *Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology*'. Spain, Formatex Research Center, 2010, pp. 427-434.

Invited talks (A Selection):

- Invited speaker: The 16th European Blackcurrant Conference, Goes, Netherland, 2011 (title: Consumption of First leaf and CAM30 by healthy humans can beneficially affect bowel function and fecal parameters related to colon cancer risk).
- Invited speaker: The Blackcurrant World Conference/Inaugural World Conference – Christchurch - New Zealand, 2008 (title: Modulation of the intestinal microbiota: The

ability of blackcurrant product to positively modulate key markers of gastrointestinal function).

- Invited speaker: Advancing Poultry Production/ Massey Technical Update Seminar, Palmerston North, June 2007 (title: The effects of green tea on coccidia and poultry performance).
- Invited speaker: “What’s Hot in Nutrition Sciences? 2006” Series. Massey University, Palmerston North, New Zealand (title: Green tea. The magic drink).
- Invited speaker: Institute of Food, Nutrition and Human Health, Massey University, 2005 (title: Condensed tannins: The magic bullet).
- Invited speaker: Department of Animal Resources and Biotechnology, College of Agriculture, Chunbuk National University (South Korea), May 2000 (title: Health benefits of condensed tannins).

Scientific Publications [Prof. Dr. Abdul-Lateef Molan:

• Refereed journal articles:	115
• Full papers in conference proceeding:	16
• Abstracts and Posters in conferences:	23
• Books:	10
• Chapters in books	2
• Articles in Newspapers	30

Total Number of Publications: 196

Publications (listed in descending order of publication).

(A) Refereed Journal Articles (115):

Molan, A.L., Balasim, M.Q. and Al-Bayati, N.Y. (2018). Insecticidal activity of grape pomaces from two grape cultivars against the housefly (*Musca domestica* L.) under laboratory conditions. *Tropical Life Sciences Research*, 29(2): 89–102.

Rathi, M.H., Abdul-Lateef Molan, A.L. and Ismail, M.H. (2018). The impact of the extracting solvent and the cultivar on the determination of total phenolic contents and anti-radical activities of extracts from roasted date seeds of two date cultivars cultivated in Iraq. *Plant Archives*, 18: 830-834.

- Ismail, M.H. and **Molan, A.L.** (2018). Is there a positive association between *Toxoplasma gondii* seropositivity and obesity in diabetic patients?. Family Medicine and Community Health (in press).
- Thomas, D.V., Molan, A.L. and Ravindran, V. (2017). Influence of green tea on performance, nutrient utilisation and cecal microbiota of broiler chickens. Journal of Animal Science, 95: 206-207.
- Nordin, N.H., A.L. Molan, W-H. Chua and M. C. Kruger. 2017. Total phenolic contents and antioxidant activities of selenium-rich black tea versus regular black tea. American Journal of Life Science Researches 5: 40-50.
- Molan, A.L.** (2017). Antioxidant, free radical scavenging activities and total polyphenolic content of aqueous extracts from seven blueberry cultivars grown in New Zealand. American Journal of Life Science Researches, 5: 18-29.
- Molan, A.L.**, Ismail, M.H. (2017). Study the possible association between toxoplasmosis and Diabetes mellitus in Iraq. World Journal of Pharmacy and Pharmaceutical Sciences, 6: 85-96.
- Molan, A.L.**, Yousif, A. A. and Al-Bayati, N. Y. (2017). Total phenolic contents and antiradical activities of pomaces and their ingredients of two Iraqi date cultivars. World Journal of Pharmacy and Pharmaceutical Sciences, 6: 167-180.
- Molan, A.L.** and Rasheed, I.H. (2016). Study the possible link between Toxoplasmosis and different kinds of cancer. American Journal of Life Science Researches, 4: 83-88.
- Vuthijumnonk, J., J.A Heyes, J.A. and **Molan, A.L.** (2016). Total anthocyanins, chlorogenic acid concentration, antioxidant and *in ovo* anti-angiogenic activities of rabbiteye blueberries. International Food Research Journal, 23: 515-520.
- Molan, A.L.**, Rathi, M.H. and Abdulwahab, D.A. (2016). Larvicidal and pupicidal activity of water extracts from tomato pomaces and their components against *Culex quinquefasciatus* (Diptera: Culicidae) under laboratory conditions. World Journal of Pharmacy and Pharmaceutical Sciences, 5: 163-171.
- Molan, A.L.**, Ismail, M.H. and Nsaif, R.H. (2016). Phenolic contents and antioxidant activity of peels and seeds of orange (*Citrus sinensis*) cultivated in Iraq. World Journal of Pharmacy and Pharmaceutical Sciences, 5: 473-482.

- Molan, A.L.** and Mahdy, A.S. (2016). Total Phenolics, Antioxidant Activity and Anti-Diabetic Capacities of Selected Iraqi Medicinal Plants. *American Journal of Life Science Researches*, 4: 47-59.
- Singh, Y., Ravindran, V., and **Molan, AL.** (2015). Influence of whole wheat feeding on the development of coccidiosis in broilers challenged with *Eimeria*. *Research in Veterinary Science*. 100, 125-130
- Pranprawit, A., Heyes, J.A. , **Molan, A.L.**, Kruger, M.C. (2015). Antioxidant Activity and Inhibitory Potential of Blueberry Extracts Against Key Enzymes Relevant for Hyperglycemia. *Journal of Food Biochemistry*, 39: 109–118.
- Pranprawit, A., Heyes, J.A., Molan, A.L. and Kruger, M.C. (2015). Effect of highbush bluberry powder in a rat model of high fructose diet-induced metabolic syndrome. *Proceedings of the Conference of the International Journal of Arts & Sciences*, 8 (5): 139-148.
- Molan, A.L.** and Faraj, A. M. (2015). Effect of selenium-rich green tea extract on the course of sporulation of *Eimeria* oocysts. *IOSR Journal of Dental and Medical Sciences*, 14: 68-74.
- Molan, A.L.** (2014). Effect of purified condensed tannins from pine bark on larval motility, egg hatching and larval development of *Teladorsagia circumcincta* and *Trichostrongylus colubriformis* (Nematoda: Trichostrongylidae). *Folia Parasitologica*, 61 (4): 371-376.
- Molan, A.L.** (2014). Bacteria versus parasites: Effect of *Lactobacillus rhamnosus* cell-free supernatant on the sporulation of coccidian oocysts *in vitro* and *in vivo*. *Journal of Dental and Medical Sciences*, 13: 86-92.
- Molan, A.L.**, Liu, Z. And Plimmer, G. (2014). Evaluation of the effect of blackcurrant products on gut microbiota and on markers of risk for colon cancer in humans. *Phytotherapy Research*, 28 (3): 416-422.
- Jayasekera, S., Kaur, L., **Molan, A.L.**, Garg, M.L. and Moughan, P.J. (2014). Effects of season and plantation on phenolic content of unfermented and fermented Sri Lankan tea. *Food Chemistry* 152: 546–551.
- Molan, A.L.** and Mahdy, A.S. (2014). Iraqi medicinal plants: Total flavonoid contents, free-radical scavenging and bacterial beta-glucuronidase inhibition activities. *Journal of Dental and Medical Sciences*, 13: 72-77.

- Singh, Y., Ravindran, V., Wester, T., **Molan, A.L.** and Ravindran, G. (2014). Influence of feeding coarse corn on performance, nutrient utilization, digestive tract measurements, carcass characteristics and cecal microflora counts of broilers. *Poultry Science*, 93: 607-616.
- Singh, Y., Ravindran, V., Wester, T., **Molan, A.L.** and Ravindran, G. (2014). Influence of prepelleting inclusion of whole corn on performance, nutrient utilization, digestive tract measurements, and cecal microbiota of young broilers. *Poultry science*, 93: 3073–3082.
- Tancharoenrat, P., Ravindran, V., **Molan, A.L.** and Ravindran, G. (2014). Influence of fat source and xylanase supplementation on performance, utilisation of energy and fat, and caecal microbiota counts in broiler starters fed wheat-based diets. *Journal of Poultry Science*, 51: 172-179.
- Khudir, M.K. and **Molan, A.L.** (2014). Seroprevalence of cytomegalovirus among healthy students at Diyala University, Diyala, Iraq. *Journal of Pharmacy and Biological Sciences*, 9: 59-61.
- Pranprawit, A., Wolber, F.M., Julian A. Heyes, J.A., **Molan, A.L.** and Kruger, M.C. (2013). Short-term and long-term effects of excessive consumption of saturated fats and/or sucrose on metabolic variables in Sprague Dawley rats: A pilot study. *Journal of the Science of Food and Agriculture*, 93: 3191-3197.
- Vuthijumnok, J, **Molan, A.L.** and Heyes, J.A. (2013). Effect of freeze-drying and extraction solvents on the total phenolic contents, total flavonoids and antioxidant activity of different Rabbiteye blueberry genotypes grown in New Zealand. *Journal of Pharmacy and Biological Sciences*, 8: 42-48.
- Molan, A.L.** (2013). Antioxidant and prebiotic activities of selenium-containing green tea. *Nutrition*, 29: 476-477.
- Molan, A.L.**, Faraj, A.M. and Mahdy, A.S. (2012). Antioxidant activity and phenolic content of some medicinal plants traditionally used in Northern Iraq. *Phytopharmacology*, 2: 224-233.

- Jansasitthorn, R., East, A.R., Hewett, E.W., **Molan, A.L.**, Heyes, J.A. and Mawson, A.J. (2012). Harvest maturity influences the antioxidant activity in Jalapeño chilli. *Acta Horticulturae*, 939: 379-383.
- Jayasekera, S., **Molan, A.L.**, Garg, M., Moughan, P.J. (2011). Variation in antioxidant potential and total polyphenol content of fresh and fully-fermented Sri Lankan tea. *Food Chemistry*, 125: 536-541.
- Bian, L., **Molan, A.L.**, Maddox, I. and Shu, Q. (2011). Antimicrobial activity of *Lactobacillus reuteri* DPC16 supernatants against selected food borne pathogens. *World Journal of Microbiology and Biotechnology*, 27: 991-998.
- Chan, J., Waghorn, G.C., **Molan, A.L.** and Brookes, I.M. (2011). Effect of condensed tannins from *Pinus radiata* bark on *Trichostrongylus colubriformis* larvae and adult worms in sheep. *Proceedings of the New Zealand Society of Animal Production*, 71: 304-308.
- Molan, A.L.**, Liu, Z. and Tiwari, R. (2010). The ability of green tea to positively modulate key markers of gastrointestinal function in rats. *Phytotherapy Research*, 24: 1614-1619.
- Molan, A.L.**, Liu, Z. and Kruger, M. (2010). The ability of blackcurrant extracts to positively modulate key markers of gastrointestinal function in rats. *World Journal of Microbiology and Biotechnology*, 26: 1735-1743.
- Molan, A.L.** and Faraj, A.M. (2010). The effects of condensed tannins extracted from different plant species on egg hatching and larval development of *Teladorsagia circumcincta* (Nematoda: Trichostrongylidae). *Folia Parasitologica*, 57: 62-68.
- Molan, A.L.**, Liu, Z and Wei, W.H. (2010). Evaluation of antioxidant activity and appetite modulation of green teas with high and low levels of organic selenium in rats. *International journal of Medical and Biological Frontiers*, 16: 85-100.

- Ravindran, G., Nalle, C. L., **Molan, A. L.** and Ravindran, V. (2010). Nutritional and biochemical assessment of field peas (*Pisum sativum* L.) as a protein source in poultry diets. *Journal of Poultry Science*, 47: 48-52.
- Molan, A.L.**, Flanagan, J., Wei, W. and Moughan, P.J. (2009). Selenium-containing green tea has higher antioxidant and prebiotic activities than regular green tea. *Food Chemistry*, 114: 829-835.
- Molan, A.L.**, Lila, M.A., Mawson, J. and De. S. (2009). *In vitro* and *in vivo* evaluation of the prebiotic activity of water-soluble blueberry extracts. *World Journal of Microbiology and Biotechnology*, 25: 1243-1249.
- Molan, A.L.**, Liu, Z and De. S. (2009). Effect of pine bark (*Pinus radiata*) extracts on sporulation of coccidian oocysts. *Folia Parasitologica*, 56: 1-5.
- Molan, A.L.**, De, S. and Meagher, L. (2009). Antioxidant activity and polyphenol content of green tea flavan-3-ols and oligomeric proanthocyanidins. *International Journal of Food Science and Nutrition*, 60: 497-506.
- Molan, A.L.**, Lila, M. A. and Mawson, J. (2008). Satiety in rats following blueberry extract consumption induced by appetite-suppressing mechanisms unrelated to *in vitro* or *in vivo* antioxidant capacity. *Food Chemistry*, 107: 1039-1044.
- Molan, A.L.**, Attwood, G. and McNabb, W. (2007). The impact of condensed tannins from Dock (*Rumex obtusifolius*) on the growth of rumen proteolytic bacteria *in vitro*. *Journal of Animal and Feed Sciences*, 16: 118-123.
- Schotsmans, W, **Molan A.L.** and MacKay B. (2007). Controlled atmosphere storage of rabbiteye blueberries enhances postharvest quality aspects. *Postharvest Biology and Technology*, 44: 277-285.
- Waghorn, T.S., **Molan, A.L.**, Deighton, M., Alexander, R.A., Leathwick, D.M., McNabb, W.C. and Meagher, L.P. (2006). *In vivo* anthelmintic activity of *Dorycnium rectum* and grape seed extract against *Ostertagia (Teladorsagia) circumcincta* and

Trichostrongylus colubriformis in sheep. New Zealand Veterinary Journal, 54: 21-27.

Hur, S.N., **Molan, A.L.** and Cha, J.O. (2005). Effects of feeding condensed tannin-containing plants on natural coccidian infection in goats. Asian-Australasian Journal of Animal Science 18: 1262-1266.

Min, B. R., Attwood, G.T., McNabb, W.C., **Molan, A.L.** and Barry, T.N. (2005). The effect of condensed tannins from *Lotus corniculatus* on the proteolytic activities and growth of rumen bacteria. Animal Feed Science and Technology 121: 45-58.

Sivakumaran, S., **Molan, A.L.**, Meagher, L.P., Yeap, F., Lane, G., Atwood, G., Fraser, K. and Tavendale, M. (2004). Variation in antimicrobial action of proanthocyanidins from *Dorycnium rectum* against rumen bacteria. Phytochemistry 65: 2485-2497.

Molan, A.L., Sivakumaran, S., Meagher, L., Lane, G., Spencer, P. (2004). Anti-parasitic activity of green tea flavonoids and oligomeric proanthocyanidins on *Ostertagia (Teladorsagia) circumcincta* and *Trichostrongylus colubriformis* larvae *in vitro*. Research in Veterinary Science 77: 239-243.

Molan, A.L., Alexander, R., Brookes, I.M. and McNabb, W.C. (2004). Effects of sulla condensed tannins on the degradation of Riblose-1,5-bisphosphate carboxylase/oxygenase (Rubisco) and on the viability of three sheep gastrointestinal nematodes *in vitro*. Journal of Animal Veterinary Advances 3: 165-174.

Molan, A.L., Meagher, L.P., Spencer, P.A. and Sivakumaran, S. (2003). Effect of flavan-3-ols on *in vitro* egg hatching, larval development and viability of infective larvae of *Trichostrongylus colubriformis*. International Journal for Parasitology 33: 1691-1698.

Molan, A.L., Duncan, A.J., Barry, T.N. and McNabb, W.C. (2003). Effects of condensed tannins and crude sesquiterpene lactones extracted from chicory on the viability of deer lungworm and gastrointestinal larvae. Parasitology International 52: 209-218.

- Molan, A.L.,** Waghorn, G.C. and McNabb, W.C. (2002). The impact of condensed tannins on egg hatching and larval development of *Trichostrongylus colubriformis in vitro*. *Veterinary Record* 150(1): 65-69.
- Schreurs, N.M., **Molan, A.L.,** Lopez-Villalobos, N., Barry, T.N., McNabb, W.C. (2002). Effect of grazing undrenched weaner deer on chicory or perennial ryegrass/white clover pasture on gastrointestinal nematode and lungworm viability. *Veterinary Record* 151(9): 348-353.
- Barry, T.N., Molan, A.L., Wilson, P.R., Lopez-Vilalobos, N. and Schreurs, N.M. (2001). Chicory as an alternative forage for deer health. *Deer Branch Course*, 18: 122-127
- Molan, A.L.,** Atwood, G.T., Min, B.R., and McNabb, W.C. (2001). The effect of condensed tannins extracted from two lotus species on the growth of proteolytic rumen bacteria *in vitro* and their possible mode of action. *Canadian Journal of Microbiology* 47: 626-633.
- Molan, A.L.,** Foo, L.Y. and McNabb, W.C. (2000b). The effect of different molecular weight procyanidins on *in vitro* protein degradation. *Asian-Australasian Journal of Animal Sciences*, 13: 43-46.
- Molan, A.L.,** Hoskin, S.O., Barry, T.N. and McNabb, W.C. (2000c). The effect of condensed tannins extracted from four forages on deer lungworm and gastrointestinal nematode larval viability. *Veterinary Record*, 147: 44-48.
- Molan, A.L.,** Waghorn, G.C., Min, B.R. and McNabb, W.C. (2000d). The effect of condensed tannins from seven herbages on *Trichostrongylus colubriformis* larval migration *in vitro*. *Folia Parasitologica*, 47: 39-44.
- Foo, L.Y., Lu, Y., **Molan, A.L.,** Woodfield D., and McNabb, W.C. (2000). The phenols and prodelphinidins of white clover flowers. *Phytochemistry*, 54: 539-548.

- Lu, Y., Sun, Y., Foo, L.Y., McNabb, W.C., and **Molan**, A.L. (2000). Phenolic glycosides of forage legume *Onobrychis viciifolia*. *Phytochemistry*, 55: 67-75.
- Aerts, R.J., McNabb, W.C., **Molan**, A.L., Brand, A., Peters, J., and Barry, T.N. (1999). Condensed tannins from *Lotus pedunculatus* and *Lotus corniculatus* effect the degradation of ribulose-1,5-bisphosphate carboxylase (Rubisco) protein in the rumen differently. *Journal of the Science of Food and Agriculture*, 79: 79-83.
- Al-Salami, S.F. and **Molan**, A.L. (1995). Seroprevalence of toxoplasmosis in Yemeni Women. *Journal of Islamic Medical Association*, 27: 174-176.
- Nagi M.M. and **Molan**, A.L. (1994). Schistosomiasis in Marib Province, Republic of Yemen. *Journal of Islamic Medical Association*, 26:99-102.
- Molan**, A.L. (1993). Edidemiology of hydatidosis and echinococosis in Theqar Province, Southern Iraq. *Japanese Journal of Medical Science and Biology*, 46:29-35.
- Molan**, A.L. and Baban, M.R. (1992). The prevalence of *Echinococcus granulosus* in stray dogs in Iraq. *Journal of Tropical Medicine and Hygiene*, 95:146-148.
- Molan**, A.L. and Saida, L.A. (1990c). Echinococosis in stray dogs in three provinces, Northern Iraq. *Japanese Journal of Parasitology*, 39: 485-485.
- Molan**, A.L. and Saeed, I.S. (1990b). The prevalence of hydatidosis and cysticercosis in sheep slaughtered in Arbil Province Iraq. *Journal of College of Education*, 2:63-67.
- Sawada, I., **Molan**, A.L. and Saeed, I.S. (1990). Further studies on Avian cestodes in Iraq. *Japanese Journal of Parasitology*, 39:36-41.
- Molan**, A.L., Saeed, I.S. and Baban, M.R. (1990a). Prevalence of human hydatidosis in the Autonomus Area, Northern Iraq during 1987. *Journal of Islamic Medical Association*, 22:60-62.

- Molan, A.L., Salomi, A.A., Farag, A.M. (1989g).** The development of *Trypanosoma evansi* in gonadectomized and testosterone-treated mice. Iraqi Journal of Agricultural Science, 2: 17-29.
- Molan, A.L. and Saida, L.A. (1989f).** Echinococcosis in Iraq: Prevalence of *Echinococcus granulosus* in stray dogs in Arbil Province. Japanese Journal of Medical Science and Biology, 42: 137-141.
- Molan, A.L., Saeed, I.S. and Miyata, A. (1989e).** Haemoprotozoa detected in *Rana ridibunda* in Iraq. Proceedings of the Japanese Society of Systematic Zoology, 40:3-12.
- Molan, A.L. and Saeed, I.S. (1989d).** Experimental infection of Balb/C mice with *Echinococcus granulosus* protoscoleces of human, sheep, cattle and goat origin from Iraq. The Veterinarian 7: 331-339.
- Molan, A.L. and Farag, A.M. (1989c).** Prevalence of intestinal parasites in school children of Arbil, Northern Iraq. Saudi Medical Journal, 10: 107-110.
- Molan, A. L. and Baban, M. R. (1989b).** Occurrence of human hydatidosis in Babylon Province, Iraq. Japanese Journal of Parasitology, 38: 57-60.
- Molan, A.L. and Al-Harmani, K.I. (1989a).** Resistance produced in golden hamsters by inoculation with Ultraviolet-irradiated *Leishmania donovani* promastigotes. Japanese Journal of Parasitology, 38: 113-119.
- Molan, A.L. and Saeed, I.S. (1988d).** Protection of mice against *Echinococcus granulosus* by previous inoculation with protoscoleces exposed to Ultraviolet irradiation. Japanese Journal of Parasitology, 37: 203-208.
- Molan, A.L. and Saeed, I.S. (1988c).** A survey on hepatic and pulmonary helminths and cestode larval stages in goats and cows of Arbil Province. Journal of Agriculture and Water Resources Research, 7: 105-114.

- Molan**, A.L. and Hussein, M.S. (1988b). A general survey of blood and tissue parasites of some rodents in Arbil Province, Iraq. *Acta Pathologica Microbiologica Immunologica Scandinavica (APMIS), Suppl.*, 47-49.
- Molan**, A.L. and Baban, M.R. (1988a). Seven-year review of hydatid cyst disease in Sulimaniah Province, Iraq. *Arab Medical Bulletin*, 10:10-19.
- Sawada, I. and **Molan** A.L. (1988). Two new hymenolepidid cestodes *Vamperolepis molani* *sp.n.* and *V.iraqensis* *sp.n.* from Iraqi bats. *Zoological Science*, 5: 483-487.
- Sawada, I., **Molan**, A.L. and Saeed, I.S. (1987). A survey on avian cestodes from Iraq with description of two new species. *Japanese Journal of Parasitology*, 36: 57-63.
- Molan**, A.L., Farag, A.M. and Saeed I.S. (1987). The effects of whole body UV-irradiation of mice on the course of infection with *Trypanosoma evansi*. *Journal of Biological Sciences Research*, 18: 77-88.
- Molan**, A.L., Al-Dulimi, S.S. and James, B.L. (1986). The development of *Microphallus pygmaeus* (Digenea:Microphallidae) in UV-irradiated mice and gerbils. *Journal of Biological Sciences Research*, 17: 1-7.
- Molan**, A.L., and James, B.L. (1984c). The effects of sex, age and diet of mice and gerbils on susceptibility to *Microphallus pygmaeus* (Digenea: Microphallidae). *International Journal for Parasitology*, 14: 521-526.
- Molan**, A.L., Brain, P.E. and James. B.L. (1984b). The retention and egg production in *Microphallus pygmaeus* (Digenea Microphallidae) in gonadectomized and hormone-treated mice. *Zeitachrift Parasitenkunde*, 70: 627-636.
- Molan**, A.L., and James, B.L. (1984a). The reduction of worm burden and egg production in *Microphallus pygmaeus* (Digenea Microphallidae) induced by a concurrent infection with *Hymenolepis nana* (Cestoda Cyclophallidae). *Zeitachrift Parasitenkunde*, 70: 509-513.

Al-Kateeb, G.H. and **Molan, A.L.** (1981). Efficacy of two drugs on *Leishmania donovani* in the golden hamster, *Mesocricetus auratus*. *Chemotherapy*, 27:117-125.

(B) Chapters in International books (Two)

Molan, A.L., Liu, Z. and Wei, W.H. (2009). Teas are not all the same: *In vitro* and *in vivo* antioxidant activity and appetite modulation in rats of green teas with high and low levels of organic selenium. 'In' Helen McKinley and Mark Jamieson (eds). *Hand Book of Green Tea health Research*. Nova Science Publisher, White Cross Mills, UK: 103-124.

Molan, A.L., Lila, M.A. and Ravindran, G. (2010). Blueberries: Genotype-dependent variation in antioxidant, free-radical scavenging, and prebiotic activities. In ' A. Mendez-Vilas. *Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology*'. Spain, Formatex Research Center, 2010, pp. 427-434.

(C) Proceedings Publications (Full papers in conference proceedings: A Selection)

Tancharoenrat, P., Zaefarian, F., Ravindran, R., **Molan, A.L.**, and Ravindran, R. (2012). Cereal type and lipid source interactions in broiler starter diets. Australian Poultry Science Symposium, 143-146.

Molan, A.L., Wei, W. And Liu, Z. (2011). Selenium-rich (Seleno) green tea: A possible chemopreventive activity against breast cancer in rats. *Proceedings of the Nutrition Society of New Zealand*, 35: 25-29.

Chan, J., Waghorn, G.C., **Molan, A.L.** and Brookes, I.M. (2011). Effect of condensed tannins from *Pinus radiata* bark on *Trichostrongylus colubriformis* larvae and adult worms in sheep. *Proceedings of the New Zealand Society of Animal Production*, 71: 304-308.

Thomas, D.V., **Molan, A.L.** and Ravindran, V. (2011). Green tea positively modifies the gut microflora in broiler chickens. *Advancing Poultry Production: Massey Technical Update Conference*, Palmerston North, New Zealand. *Advancing Poultry Production: Proceedings of the Massey Technical Update Conference*. 13: 100-103.

Singh, Y., Wester, T.J., **Molan, A.L.**, Ravindran, G. and Ravindran, V. (2011). Influence of whole wheat inclusion and die hole diameter on performance and nutrient utilization of broiler. *Proceedings of the Massey Technical Update Conference*, vol. 13: 67-75.

Thomas, D., **Molan, A.L.** and Ravindran, V. (2010). The ability of green tea to positively modulate the gut microflora in chickens. *Australian Poultry Science Symposium*, 203-206.

- Molan, A.L.** and Kruger, M. (2007). Tea and bone health. Proceedings of the Nutrition Society of New Zealand, 32: 60-65.
- Molan, A.L., De, S,** Kruger, M. and Drummond, L. (2007). The ability of kiwifruit to positively modulate key markers of gastrointestinal function. Proceedings of the Nutrition Society of New Zealand, 32: 66-71.
- Thomas, D.V., **Molan, A.L.** and Ravindran, V. (2007). Green tea, polyphenols and poultry. Advancing Poultry production- Proceedings of the Massey Technical Update Conference, 9: 84-88.
- Molan, A.L.** and Thomas, D.V. (2007). Green tea water extracts inhibit the sporulation of *Eimeria* oocysts *in vitro*. Advancing Poultry production- Proceedings of the Massey Technical Update Conference, 9: 89-97.
- Molan, A.L.,** Darragh, A. and Rowan, A. (2005). Impact of diet on satiety and body weight regulation: A review. Proceeding of the Nutrition Society of New Zealand, 30: 120-127.
- Waghorn, G. And Molan A.L. (2001). Effect of condensed tannins in *Dorycnium rectum* on its nutritive value and on the development of sheep parasite larvae. PROCEEDINGS OF THE CONFERENCE-NEW ZEALAND GRASSLAND ASSOCIATION, 273-278
- Molan, A.L.,** Alexander, R., Brookes, I.M. and McNabb, W.C. (2000a). Effects of sulla condensed tannins on the viability of three sheep gastrointestinal nematodes *in vitro*. Proceedings of the New Zealand Society of Animal Production, 60:21-25.
- Molan, A .L.,** Waghorn, G. C. and McNabb, W. C. (1999). Condensed tannins and gastrointestinal parasites. Proceedings of the New Zealand Grassland Association, 61: 57-61.

(D) Conference contribution (abstracts only: A Selection)

- Vuthijumnonk, J., Heyes, J.A., Wolber, F.M., Chua, W-H., Molan, A.L. (2015) Biological activities of rabbiteye blueberries ‘Maru’ and their chemopreventive effect on 7,12-dimethylbenz[a]anthracene-induced mammary tumorigenesis in rats. (abstract) Oral presentation at the NZIAHS/IAPB Plants for the Future Conference, Palmerston North, New Zealand.
- Vuthijumnonk, J., Heyes, J.A., Wolber, F.M., Chua, W-H., Molan, A.L. (2015) In vitro and in vivo antimicrobial activity of blueberry pomace and modulation of β -glucuronidase activity in animal model of breast cancer (abstract) Poster presentation. Winner of “the best student poster presentation” prize at at the NZIAHS/IAPB Plants for the Future Conference, Palmerston North, New Zealand.
- Vuthijumnonk, J., Heyes, J.A., Wolber, F.M., Chua, W-H., Molan, A.L. (2014). *In vitro* and *in vivo* prebiotic and antimicrobial activities of rabbiteye blueberry extracts Poster

presentation at the Nutrition Society of New Zealand Conference, Queenstown, New Zealand.

- Vuthijumnonk, J., **Molan, A. L.**, & Heyes, J. A. (2012). Free radical scavenging and anti-angiogenic properties of three rabbiteye blueberry extracts. (abstract) Proceedings of the Nutrition Society of New Zealand, 36, 88-88. Poster presentation at the Nutrition Society of New Zealand Conference, Auckland, New Zealand.
- Molan, A.L.**, De, S., Thomas, D.V. and Ravindran, V. 2009. Bacteria versus parasites: *Lactobacillus rhamnosus* cell-free supernatant inhibits the sporulation of *Eimeria* oocysts *in vitro*. *Proceedings of the Australian Poultry Science Symposium*. 20: 66.
- Molan, A.L.**, De, S. and Thomas, D.V. (2008). Bacteria versus parasites: *Lactobacillus rhamnosus* cell-free supernatant inhibits the sporulation of the *Eimeria* oocysts *in vitro*. Xth European Multicolloquium of Parasitology, Paris, France, August 24-28, 2008.
- Thomas, D.V., **Molan, A.L.** and Ravindran, V. (2008). Effects of green tea supplementation in wheat based diets on broiler performance and digestive tract development. *World's Poultry Science Journal*, **64**: Supplement 2, p483.
- Molan, A.L.**, Flanagan, J. and Moughan, P. (2007). Prebiotic activity of green tea *in vitro* and *in vivo*. Proceedings of the 3rd International Conference on O-Cha (Tea) culture and science, Shizuoka, Japan, 2-4 November 2007.
- Thomas, D.V., **Molan, A.L.** and Ravindran, V. (2007). Effects of green tea supplementation in broiler starters fed wheat-based diets on performance and digestive tract development. The Conference of the Nutrition Society of New Zealand, Auckland, New Zealand, 5-7 December, 2007.
- Ravindran, R., **Molan, A.L.** and De, S. (2007). Antioxidant capacities and total phenolic contents of bitter melon (*Momordica charantia*) fruit and tea extracts. Proceedings of the NZIFST Conference, Wellington, New Zealand.
- Molan, A.L.**, Meagher, L.P., Woodfield, D. and McNabb, W. S. (2002). Impact of condensed tannins from the flowers of white clover on egg hatching and larval development of *Trichostrongylus colubriformis in vitro*. Proceeding of the New Zealand Society for Parasitology Annual Meeting, October 2002.
- Barry, T.N., **Molan, A.L.**, Wilson, P.R., Lopez-Villalobos, N., Schreurs, N.M. and Duncan, A.J. (2001). Chicory as an alternative forage for deer health. Deer Branch NZVA Conference. Palmerston North, New Zealand, May 2001.
- Waghorn, G.C and **Molan, A.L.** (2001). Effect of condensed tannins in *Dorycnium rectum* and its nutritive value and on the development of sheep parasite larvae. Proceedings of the New Zealand Grassland Association, 63: 273-277.
- Molan, A.L.**, McNabb, C.W., Peters, J. and Barry, T.N. (1997). The effect of condensed tannins from two lotus species on protein degradation and bacterial growth in the rumen. Proceedings of the Nutrition Society of New Zealand, 22: 264.

Al-Salami, S.F. and **Molan**, A.L. (1995). Cutaneous leishmaniasis in Yemen. *Journal of European Academy of Dermatology and Venereology*, 5: S88-S88.