

# Academic Curriculum Vitae



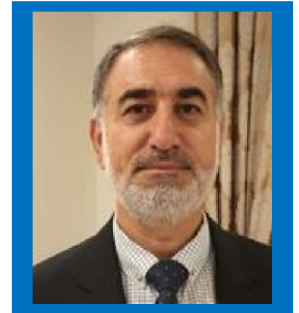
## Personal Information:

Full Name: SARWAT EKRAM MOHAMMED AL-QASSAB

Academic Title: Lecturer

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## Education:

- **2009 Ph D Molecular Parasitology** / Department of Medical and Molecular Biosciences - University of Technology Sydney / Australia.
- **1991 M Sc. Invertebrate Zoology** / Department of Biology – College of Science - University of Salahaddin – Erbil / Iraq.
- **1987 B Sc. Microbiology** / Department of Biology – College of Science - University of Salahaddin – Erbil / Iraq.

## Employment:

- (1992-1996) Asst. Lecturer - **subjects: Practical Invertebrate Zoology, Practical Histology & Embryology.** Department of Biological Sciences, College of Education / Salahaddin University-Erbil – IRAQ.
- (2006 - 2010) Demonstrator – **Subjects: Molecular Biology 1, Molecular Biology 2 and General Microbiology.** University Technology, Sydney, Medical and Molecular Biosciences, College of Science, Level 6, Building 4, Thomas Street, Ultimo NSW 2007, Australia
- (2006 - 2010) Demonstrator – **Subjects: Molecular Biology 1, Molecular Biology 2 and General Microbiology.** University Technology, Sydney, Medical and Molecular Biosciences, College of Science, Level 6, Building 4, Thomas Street, Ultimo NSW 2007, Australia.
- (2011- 2015) Lecturer – **subject: Practical molecular biology.** Department of Biological

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- Sciences, College of Education / Salahaddin University-Erbil - IRAQ  
(2015- Now) Lecturer – **subject: Introduction to Zoology (Theory) & General Zoology (Theory)**: Department of Biological Sciences, College of Education / Salahaddin University-Erbil - IRAQ
- (2020-2021) Lecture – **subject: English for Science (Theory) – Year two, Fundamental of Biology (Theory & Practical) – Year Two**: Department of Medical Microbiology, College of Science / Erbil International University. Erbil – IRAQ.
- (2013-2016) Directorate of Split-Site Ph D. study – Directorate of High Education. Salahaddin University-Erbil - IRAQ.
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## professional qualification

- Polymerase chain reaction (PCR).
- Real-time PCR.
- Western Blotting.
- Cell culture of parasites (*Neospora caninum* and *Toxoplasma gondii*).
- Animal experiments; as approved by ACEC.
- Cloning.
- Mouse bioassay.
- DNA sequencing and Bioinformatics.
- General microbiology techniques.
- Electron microscopy (transmission and scanning).
- Biological preparations.
- Black and White photography.
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## Teaching experience:

- Asst. Lecturer - subjects: General Zoology, Invertebrate Zoology and Histology. Department of Biological Sciences, College of Education / Salahaddin University, (1992-1996). Duties: demonstration, examiner, marking, Laboratory supervision and thesis project supervision.
- Demonstrator – Subjects: Molecular Biology 1, Molecular Biology 2 and General Microbiology. University Technology, Sydney, Medical and Molecular Biosciences, Level 6, Building 4, Thomas Street, Ultimo NSW 2007 (2006 - 2010).

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- Lecturer – subject: Practical molecular biology. Department of Biological Sciences, College of Education / Salahaddin University, (2011 - Now). Duties: Teaching, demonstration, examiner, marking, Laboratory supervision and thesis project supervision.  
Lecturer – subject: General Zoology: Department of Biological Sciences, College of Education / Salahaddin University, (2015 - Now).  
Lecturer – subject: Fundamental of Biology: Department of Medical Microbiology, College of Science / Erbil International University (2020 – 2021).
- Lecturer – subject: English for Science: Department of Biology, College of Science / Erbil International University (2020 – 2021).
- Lecturer – subject: English for Science: Department of Chemistry, College of Science / Erbil International University (2020 – 2021).
- Lecturer – subject: English for Specific Purposes: Department of Biological Sciences, College of Education / Salahaddin University, (2021 - Now).

#### **Lab supervision**

- Practical Introduction to Zoology & practical General Zoology subjects – Year one. Department of Biological Sciences, College of Education / Salahaddin University, (2015 - Now).

## **Research and publications**

- King, J. S., McAllan, B., Spielman D., Lindsay, S. A., Hůrková-Hofmannová, L., Hartigan, A., Al-Qassab, S. E., Ellis J. T. and Šlapeta, J. (2011) Extensive production of *Neospora caninum* tissue cysts in a carnivorous marsupial succumbing to experimental neosporosis. **Parasitology Research**, 42: 75-85
- Stark, D., Al-Qassab, S. E., Barratt, J. L. N., Stanley, T, Roberts, K. T., Marriott, D., Harkness, J. and Ellis, J. (2011) An evaluation of a multiplex tandem real-time PCR for the detection of *Cryptosporidium* spp., *Dientamoeba fragilis*, *Entamoeba histolytica*, and *Giardia intestinalis* from clinical stool samples. **Journal of Clinical Microbiology**, .49: 257-62.
- Ellis, J., Sinclair, D., Morrison, D., Al-Qassab, S., Springett, K. and Ivens, A. (2010) Microarray analyses of mouse responses to infection by *Neospora caninum* identifies disease associated cellular pathways in the host response. **Molecular & Biochemical Parasitology**, 174: 117–27

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- King, J. S., Slapeta, J., Jenkins, D. J., Al-Qassab, S. E., Ellis, J. T. and Windsor, P. A., (2010) Australian dingoes are defective hosts of *Neospora caninum*. **International Journal for Parasitology**, 40: 945-50.
- Barratt, J., Al Qassab, S., Reichel, M. P. and Ellis, J. T. (2008) The development and evaluation of a nested PCR assay for detection of *Neospora caninum* and *Hammondia heydorni* in feral mouse tissues. **Molecular and Cellular Probes**, 22: 228-33.
- Al-Qassab, S., Lee, W. J., Murray, S., Simpson, A. and Patterson, D. J. (2002) Flagellates from stromatolites and surrounding sediments in Shark Bay, Western Australia. **Acta Protozoologica**, 41: 91-144.
- Al-Qassab, S., Reichel, M. P. and Ellis, J. T. (2010) On the Biological and Genetic Diversity in *Neospora caninum*. **Diversity**, 2: 411-438.
- Al-Qassab, S., Reichel, M. P. and Ellis, J. T. (2010) A second generation Multiplex PCR for typing strains of *Neospora caninum* using six DNA targets. **Molecular and Cellular Probes**, 24: 20-6.
- Al-Qassab, S., Reichel, P. M., Ivens, A. and Ellis, J. T. (2009) Genetic diversity detected amongst isolates of *Neospora caninum* and development of a multiplex PCR for typing strains. **Molecular and Cellular Probes**, 23: 132-9.
- Al-Qassab, S., Reichel, M. P., Hall, G., Johnson, M., Windsor, P. A., Jenkins, D., Su, C., Dubey, J. P. and Ellis, J. T. (2009) Isolation of *Toxoplasma gondii* from the brain of a dog in Australia and its biological and molecular characterisations. **Veterinary Parasitology**, 164: 335-9.
- Bashe, S. K. and Al-Qassab, S. E. 2024. Morphological and Molecular Identification of Some Terrestrial Snails: First Report. **ZANCO Journal of Pure and Applied Sciences**, 36: 94-104.
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## Research interests

- **Molecular Biology.**
- **Parasitology.**
- **DNA barcoding.**
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## Funding and academic awards

- **Patent:** A patent application to the Australian Patent office (Patent Co-Operation Treaty Patent Application No. PCT/AU2009/001101 "METHODS, PRIMERS AND KITS FOR GENOTYPING NEOSPORA SPECIES AND STRAINS" Filed August (2009) related to multiplex PCR and its applications.
- **Scholarship:** During my Ph D study, I was awarded an Australian Postgraduate Award (APA).

## Professional memberships

- Membership in Australian Society of Parasitology. ASP Secretariat, c/-RGDQ, 237 Milton Road QLD 4064 Australia.
- Membership in Kurdistan Biology Syndicate. Adala Suburb, Erbil, Kurdistan Region – IRAQ.

## Professional Social Network Accounts:

ResearchGate:

<https://www.researchgate.net/profile/Sarwat-Al-Qassab>

LinkedIn:

<https://www.linkedin.com/in/sarwat-al-qassab-458a67155/>

Google Scholar:

<https://scholar.google.com/citations?user=oAv5vnIAAAAJ&hl=en>

ORCID:

<https://orcid.org/my-orcid?orcid=0000-0002-7598-3879>