

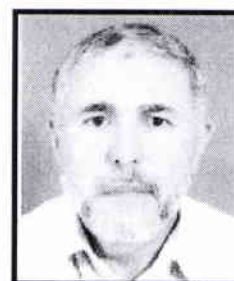
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**Nationality:** Moroccan

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**Education and career:**

**1977:** Bachelor in Experimental Sciences

**1978-1984:** Academic studies of Veterinary Medicine Sciences at the Institut Agronomique et Vétérinaire Hassan II, Rabat, Morocco.

**1984:** Diploma of Veterinary Medicine graduation. Thesis title: Lymphatic drainage in the dromedary camel.

**1985-1987:** Assistant Professor Trainer at the Comparative Anatomy Department, IAV Hassan II, Rabat, Morocco; Teaching comparative anatomy of domestic animals to veterinary students.

**1988:**

- MPhil Diploma following a year of study and research in the Department of Biological and medical systems (Imperial College, London).
- Join the PhD program at Imperial College of Science, Technology and Medicine, University of London, Great Britain.
- Participation in the international course on the principles of use of electron microscopy. Course organized by the Royal Microscopical Society (RMS) at the University of Leeds, Britain. Course certificate issued by the RMS.
- Participation in the course on the ultra-structural anatomy at Queen's University, Belfast, Northern Ireland, Great Britain. Course certificate issued by the RMS and became member of the RMS.

**1989-1992:** PhD Research project

- The effect of dehydration and rehydration on the water balance in dromedary camel at Rabat and Tadla (Morocco, 3 publications).
- The effect of alteration of CSF composition on vasopressin secretion in rats (St Thomas Hospital, University of London, UK) and the dromedary (IAV Hassan II, Rabat, Morocco; 5 publications).

Professor assistant in the Department of Comparative Anatomy at IAV Hassan II

**1993-1997:** Thesis preparation and teaching comparative anatomy of domestic animals



**1996 (September):** Participation in the International Neuroscience on Neurotransmitters and their receptors: basic to clinical aspects and poster presentation on a method for intracerebro-ventricular cannula implantation in the dromedary camel at Rhodes University, Grahamstown, South Africa.

**1998:** PhD thesis defence and PhD graduation from the University of London.

**Current Status:**

Professor, Lecturer and researcher in the Department of Veterinary Biological and Pharmacological Sciences (Comparative Anatomy Unit), IAV Hassan II, Rabat, Morocco.

- Teaching comparative anatomy of domestic animals.
- Supervising thesis for the diploma of Doctor of Veterinary Medicine.
- Research project on the anatomical and physiological peculiarities of camel and its adaptation to the desert environment.
- Coordinator of UFR21 (Formation and research Unit N°21, Veterinary Sciences, Hassan 2 Agronomy and Veterinary Institute, Doctoral centre) Titled: **Adaptation morpho-fonctionnelle, performances de production et pathologies des animaux domestiques en zones arides.** (Morpho-functional adaptation, production performances and pathology of arid zones domestic animals)

**Speaking languages:**

Arabic, French and English.

**Research Activities:**

**Research projects:**

- Effect of heat stress and water restriction in the dromedary camel (1989-1992). Funded by the British council, Great Britain.

Partner: Pr. RG Schröder, Centre for Biological and Medical Systems, Imperial College for Science, Technology and Medicine, London, UK.

- Mechanism of vasopressin secretion (1990-1993). Funded by the British council, UK. Partner: Pr. ML Forsling, Department of Physiology, St Thomas's Hospital, London, UK.

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FAX SUBJECT

- Characterisation and identification of camel breeds in the southern of Morocco (1997-2000). Funded by the Arab Centre for Arid Zones and Dry Lands (ACSAD): Steps reports and final report).
- The pineal gland in the dromedary camel: Innervations, neuropeptidergic content and melatonin secretion rhythm (2002-2005). PRFI 08/02 Project; Funded by the Hassan II<sup>nd</sup> Agronomy and Veterinary institute, Rabat, Morocco. Partner: Dr. K. El Allali,
- Glандe pinéale, mélatonine et adaptation photopériodique à l'environnement chez le dromadaire (*Camelus dromedarius*) (2003-2006). Project PRAD-03-10. Funded by the ministry of Agriculture, Rabat, Morocco and Foreign and European Affairs ministry, France. Partner Dr. K. El Allali
- Role of photoperiod and melatonin in the seasonality of sexual activity in the dromedary camel (*Camelus dromedarius*): prospects for the control of reproduction (PROFERD, 2007-2009). Funded by the ministry of Agriculture, Rabat, Morocco. Partner Drs. K. El Allali, A. Sghiri and A. BELAKHEL.
- Rôle de la photopériode et de la mélatonine dans la saisonnalité de l'activité sexuelle chez le dromadaire (*Camelus dromedarius*) perspectives dans le contrôle de la reproduction. (2007-2010). Project: PRAD 07-05. Funded by the ministry of Agriculture, Rabat, Morocco and Foreign and European Affairs ministry, France. Partner Drs. K. El Allali & A. Sghiri.
- Synchronisation du système circadien et saisonnier par les cycles de température ambiante chez le Dromadaire (*Camelus dromedarius*). (2010-2013). Project: PRAD 11-09. Funded by the ministry of Agriculture, Rabat, Morocco and Foreign and European Affairs ministry, France. Partner Dr. K. El Allali.

#### ***Publications:***

Zguigal, H., M. Bakkoury and **M.R. Achaaban**. (1990). The venous drainage of the nasal cavity and its role in the brain thermoregulation in the dromedary camel. Proceeding of international seminar of the man and dromedary in Africa. Agadir, pp 58-61.

**Achaaban, M.R.**, T. Wells, H.K. Richards and M.L. Forsling. (1991). The effect of intracerebro-ventricular injection of hypertonic solutions on local glucose utilization (LCGU) in the conscious rat. *J. Physiol.*, 438, 119P.

Schroter, R.C., D.H. O'Neill, **M.R. Achaaban** and A. Ouhsine. (1991). The prediction of body weight of dromedary camel using girth at the hump as an index. *Ind. Vet. J.*, 69: 925-930.

**Achaaban, M.R.**, M.L Forsling, A. Ouhsine and R.C. Schroter. (1992). Plasma AVP and water balance in camels subjected to dehydration and rehydration in hot dry and hot humid environments. *Proc. 1 st int. Camel Conf. Dubai*, pp 297-299.

Schroter, R.C., D.H. O'Neill, **M.R. Achaaban** and A. Ouhsine. (1992). The influence of heat stress and dehydration on the work performance of the camel. Proc. 1 st int. Camel Conf. Dubai, pp 305-308.

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Wells, T., **M.R. Achaaban**, H.K. Richards and M.L. Forsling. (1994). Changes in neuronal metabolism in hypothalamic periventricular regions following acute alteration of cerebrospinal fluid composition in conscious rats. Neuroscience letters, 165: 93-96.

**Achaaban, M.R.**, A. Ouhsine, R.C. Schroter and M.L. Forsling. (1995). A method for intracerebroventricular cannula implantation in the dromedary camel (*Camelus dromedaries*). Proceeding of the second SONA international Conference, April 1995, P29 .

**Achaaban, M.R.**, R.C. Schroter, A. Ouhsine and M.L. Forsling. (1996). Effects of intracerebro-ventricular injection of hypertonic solutions on plasma arginin vasopressin in the dromedary camel. Ind. Vet. J., 73: 637-644.

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Tligui, N., M. El hamidi, J. Berrada, M., M. Bengoumi, **M.R. Achaaban** and A. Karom. (1999). The prevalence of lung lesions in camel at Laayoune slaughter house (Morocco). Proceeding of regional workshop on control of infectious and parasitic diseases in camel in the Maghreb, Egypt and Sudan, Rabat, Morocco, Actes Editions, p. 73-78.

**Achaaban, M.R.**, R.C. Schroter, M.L. Forsling and A. Ouhsine (2000). Salt balance in camels subjected to heat stress and water deprivation under two different environmental conditions. Journal of Camel Practice and Research. Vol. 7, N°: 1, p. 57-62.

**Achaaban, M.R.**, R.C. Schroter, M.L. Forsling and A. Ouhsine. (2002). Effects of heat stress and dehydration on body water distribution in the dromedary camel (*Camelus dromedaries*). Journal of Camel Practice and Research. Vol. 9, N°: 2, p: 101-106.

**Achaaban, M.R.**, R.C. Schroter, M.L. Forsling and A. Ouhsine. (2002). The neurohypophysial hormone profiles in the camel. Journal of Camel Practice and Research. Vol. 9, N°: 2, p 115-119.

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El Allali, K., **M.R. Achaaban**, B. Vivien-Roels, B. Bothorel and P. Pévet. (2004). Variations saisonnières du rythme nyctéméral des concentrations de mélatonine plasmatique chez le dromadaire (*Camelus dromedarius*). 36<sup>ème</sup> Congrès de la Société Francophone de Chronobiologie, Rennes- France, Mai 2004

El Allali K., **M.R. Achaaban**, A. Malan and P. Pévet. (2004). Démonstration de la nature endogène du rythme de la température corporelle chez le dromadaire (*Camelus dromedarius*). Réunion PRAD, ENA Meknes- Mai 2004.

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**Achaaban MR.**, Baiss M., El Allali K., Oukessou M., Piro M. (2009). The cerebrospinal fluid in the dromedary camel (*Camelus dromedarius*): Sampling and composition. Proceeding du 26ème Congrès Vétérinaire Maghrébin. 4-5 Mai. Tripoli. Libye.

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**Achâaban M.R.**, K. El Allali, R.C. Schroter et M.L. Forsling. (2010). Hormones Neurohypophysaires du dromadaire : Effet de la déshydratation et des injections intracerebroventriculaires de solutions hypertoniques. Proceedings of the Second Workshop Local Neuromed: Processus Adaptatifs à l'Approche Clinique. 17-18 Décembre 2010 Rabat, Maroc.

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M. Piro, O. Bouazzati, M. Bengoumi, K. El Allali, **M.R. Achaaban**, A. Benjouad, A. Nabich and L. Ouragh. (2011). Genetic characterisation of moroccan camel populations using microsatellites markers *Journal of Camel Practice and Research* Volume 18 December 2011 Number 2 Pages 167-172.

Bouâouda H., A. Malan, E. Challet, **M.R. Achâaban**, M.Ouassat, M. Oukassou, P. Pévet and K. El Allali. (2012). A complex control of thermoregulation with a daily switching of poikilothermic and homeothermic phases in the camel (*Camelus dromedarius*). Proceedings of the Neurex meeting; Strasbourg.

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El Allali K, **Achaâban MR**, Bothorel B, Piro M, Bouaouda H, El Allouchi M, Ouassat M, Malan A, Pevet P. (2013). Entrainment of the circadian clock by daily ambient temperature cycles in the camel (*Camelus dromedarius*). *Am J Physiol Regul Integr Comp Physiol*. PMID:23485867.

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