**Name:** Mohammed El Bali

**Date of birth:** 18 Oct 1968

**Nationality:** Moroccan

**E-mail:** maelbali@uqu.edu.sa, melbali18@hotmail.com

**Mobile:** +966 559610754

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**Education**

**1993:** BSc. in Biology; Mohamed I University, Oujda, Morocco. *[Moroccan Ministry of Higher Education Fellowship]*.

**1995:** Master’s program “Experimental parasitology, basis and techniques”; Parasitology Department, Pharmacy college, Granada. Spain. *[Granada University Fellowship]*.

**2002:** PhD degree “Thesis title: Identification of new antigens for visceral leishmaniasis serological diagnosis”; Complutense University, Madrid, Spain. *[Spanish Agency for International Cooperation & Development Fellowship]*.

**Courses of interest**

**1995:** Course on Tropical Medicine and Parasitology; Granada, Spain. *[UNESCO Fellowship]*.

**1999:** Enfermedades tropicales, de la pobreza a la molécula; San Lorenzo de el Escorial, Spain. *[ISCIII & Organizers Fellowship]*.

**2000:** La cooperación científica y tecnológica en el ária de la salud: El apoyo a la investigación sanitaria, San Lorenzo de el Escorial, Spain. *[ISCIII & Organizers Fellowship].*

**Work experience**

**1994/1995:** MSc Student Collaborator at Instituto López Neyra, CSIC, Granada, Spain; *[keywords: Fascioliasis, Trichinosis, immunodiagnosis, Vaccine candidates, ELISA, monoclonal antibodies]*.

**1995/1997:** Predoctoral Research assistant at CNM, ISCIII, Madrid, Spain; *[keywords: Leishmaniasis, Leishmania/VIH coinfectio, Recombinant antigens, molecular techniques, animal models]*.

**1997/2002:** PhD Student researcher at CNM, ISCIII, Madrid, Spain; *[Thesis title: Identification of new antigens for visceral leishmaniasis serological diagnosis]*.

**2003/2005:** Post-doctoral Research Associate at Liverpool School of Tropical Medicine, Liverpool and Kalon Biological Ltd, Guildford, UK; *[Research keywords: Visceral Leishmaniasis, Monoclonal antibodies, ELISA and immunochromatographic tests development]*.

**2005:**Field work at Muzaffarpur Kala-Azar Research Centre and Institute of Medical Sciences, Banaras Hindu University, Varanasi, India; *[keywords: Visceral Leishmaniasis, Diagnostic immunochromatographic and ELISA field trial]*.

**2005/Present:** Assistant Professor at Medical Parasitology Dpt, Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**Teaching Experience**

**2003/2004:** Diagnostic Parasitology Undergraduate and MSc program teaching collaborator at Liverpool School of Tropical Medicine, Liverpool, UK.

**2005/2007:** Diagnostic Parasitology course and Clinical Parasitology course laboratory sessions teaching at Medical Parasitology Department, Faculty of Medicine, UQU, KSA.

**2008/2017:** Diagnostic Parasitology course lectures and laboratory sessions teaching. Clinical Parasitology course laboratory sessions teaching at Medical Parasitology Dpt, Faculty of Medicine, UQU, KSA.

**2017/Present:** Diagnostic Parasitology course laboratory sessions teaching at Medical Parasitology Dpt, UQU, KSA.

**Academic Responsibilities**

**2005/Present:** Coordinator of research activity at Medical Parasitology Dpt, Faculty of Medicine, UQU.

**2008/20013:** Diagnostic Parasitology Course Coordinator at Medical Parasitology Dpt., Faculty of Medicine, UQU.

**2012/2015:** Quality and Academic Accreditation Committee Member, Faculty of Medicine, UQU.

**2013/2014:** Coordinator of UQU-LSTM service agreement for Clinical Parasitology Course External Academic Review and development of research strategy.

**2012/Present:** Medical Parasitology Department coordinator member in quality committee, Faculty of Medicine, UQU.

**2016/Present:** Participant in UQUMed Students Mentoring Program.

**2017/Present:** Member of postgraduate studies and scientific research committee, Faculty of Medicine, UQU.

**2017/Present:** Chairman of Key Performance Indicators committee for medicine and surgery program NCAAA accreditation project, UQU, KSA.

**2017/Present:** Member of standard seven for medicine and surgery program NCAAA accreditation project, UQU, KSA.

**Research Experience**

***Participation in research projects:***

**1997/1998:** “*La biotecnología aplicada al diagnóstico de la leishmaniasis: apoyo a la red multicéntrica para el estudio de la coinfección por Leishmania/VIH*” (FIS, 97/0016-02) CNM, ISCIII, Madrid, Spain.

**1998/2000:** “*Host-parasite relationship in canine leishmaniasis (Leishmania infantum/L. chiggers) development and validation of the dog model*” (INCO/CEE, IC18\*CT970213) CNM, ISCIII, Madrid, Spain.

**2002/2003:** “*Studies on Leishmania/HIV co-infections*” (MPY-319/952002) Parasitology Unit/WHO Leishmaniasis Collaborating Centre, ISCIII, Madrid, Espagne.

**2003/2005:** “*Development of antigen detection ELISA and immunochromatographic kits for the diagnosis of visceral leishmaniasis*” (CEE Marie Curie Fellowship) Liverpool School of Tropical Medicine and Kalon Biological Ltd, UK.

**2006/2008:** "*Biological and Physio-Chemical survey of drinking water sources in Makkah Al-Mukarramah, KSA*" (Fakeih Research & Development Centre funding) Medical Parasitology Department, Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2007/2009:** "Study of *Plasmodium falciparum* parasites resistance to Chloroquine and Sulfadoxine-Pyrimethamine drugs by PCR-RFLP" (ISR-42809007) Medical Parasitology Dpt., Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2009/2012**: "Performance of different blood collection and DNA extraction methods for malaria diagnosis by PCR" (ISR-42909003) Medical Parasitology Dpt., Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2014/2017**: "Morphologic and genetic variability of *Blastocystis spp.* isolated from symptomatic and asymptomatic human hosts in Makkah, Saudi Arabia" (ISR-43409049) Medical Parasitology Dpt., Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2015/ongoing:** "Molecular characterization of Cryptosporidium [species and genotypes] isolates from children in Makkah, Saudi Arabia" (ISR-43409057). Parasitology Dpt., Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2015/ongoing**: PI/"Population dynamics of mosquitoes in western and southern regions of Saudi Arabia: variants and resistance to insecticides" (NSTIP-13-MED724-10) Medical Parasitology Dpt., Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

***Publications:***

C. Cañavate, **M. El Bali**, Y. Montoya, D.C. Barker, J. Alvar (2002). Isolation and characterization of a *Leishmania infantum* cDNA encoding a protein homologous to eukaryotique elongation factor-1γ. *Transactions of the Royal Society of Tropical Medicine and Hygiene,* 96 suppl.: S1/41-S1/47.

J.I. Garrote, Mª P. Gutiérrez R, R.L. Izquierdo, M.A. I.dueñas, C. Cañavate, **M. El Bali**, A. Almaraz, M.A. Bratos, A. Orduña, A. Rodríguez-Torres (2004). Seroepidemiological study of *Leishmania infantum* infection in the population of Castilla-Leon (Spain). *American Journal of Tropical Medicine & Hygiene,* 71(4): 403-406.

EL-Malky MA, Al-Harthi SA, Mohamed RT, **EL Bali MA**, Saudy NS. (2014). [Vaccination with Toxoplasma lysate antigen and CpG oligodeoxynucleotides: comparison of immune responses in intranasal versus intramuscular administrations.](http://www.ncbi.nlm.nih.gov/pubmed/24728558) *Parasitol Res.* Jun;113(6): 2277-84.

**El-Bali**, **M.** Dina AM Zaglool, Yousif AW Khodari, Saeed A Al-Harthi(2016).Appraisal of Prenatal anti-*Toxoplasma gondii* (IgG+IgM)-IHA/IgM-ELISA Screening in Single Samples via IgG Avidity Test**.** *J. Egypt. Soc. Parasitol.,* 46(1): 201- 208.

Raafat T. Mohamed, **Mohammed A. El-Bali**, Anhar A. Mohamed, Mona A. Abdel-Fatah, Mohamed A. EL-Malky, Nawras M. Mowafy, Dina A. Zaghlool, Rowaida A. Bakri and Saeed A. Al-Harthi (2017). Subtyping of Blastocystis sp. isolated from symptomatic and asymptomatic individuals in Makkah, Saudi Arabia. *Parasites & Vectors 10:174 DOI 10.1186/s13071-017-2114-8.*

Dina A. Zaglool, **Mohammed El-Bali**, Hani S. Faidah, Saeed A. Al-Harthi (2017). *Toxoplasma gondii* seroprevalence at a tertiary care hospital in Makkah, Saudi Arabia. *J. Adv. Lab. Res. Biol.* 8(2): 36-40.

EL-Malky, M.M., Mowafy, N.M., Zaghloul, D.A., Al-Harthi, S.A., **EL-Bali M.A.,** Mohamed R.T., Bakri R.A., Mohamed A.A., Elmedany S. (2018). Prevalence of *Cryptosporidium* species isolated from diarrheic children in Makkah, Saudi Arabia. *Tropical Biomedicine*, 35 (1).

***Chapters in books:***

**El-Bali M.** and Adetunji Adeyokunnu (2011). Hydatid Disease. Textbook of Clinical Pediatrics 2nd Ed., section 6 Infectious Diseases. 1091-1096, El Zouki AY et al. (eds) ***Springer-Verlag***, Berlin Heidelberg.

**El-Bali M.** and Adetunji Adeyokunnu (2011). Leishmaniasis. Textbook of Clinical Pediatrics 2nd Ed., section 6 Infectious Diseases. 1097-1102, El Zouki AY et al. (eds) ***Springer-Verlag***, Berlin Heidelberg.

***Meetings & conferences:***

Cañavate C, Medrano J, Leal M, Lissen E, **El Bali M**, Alvar J. and al. “The role of serology in the diagnosis and prognosis of visceral leishmaniasis in patients coinfected with HIV-1” 1st World Congress on Leishmaniasis. Estambul, Turkey (1997).

Y. Montoya, C. Cañavate, **M. El Bali**, D.C. Barker, C. Leon, M. Talledo, O. Nolasco, C. Pdilla and J. Alvar “Recombinant Antigens for American Tegumentary and Visceral Leishmaniasis Diagnosis” 6th Euroleish workshop. Lima, Perú (1997).

Moreno J, Chamizo C, Nieto J, Gonzalea F, Cañavate C, **El Bali M**, Chicharro C, Lohse JM, Molina R and Alvar J. “The dog model as a tool for canine leishmaniasis control” 2nd European Meeting on Tropical Medicine. Liverpool, UK (1998).

**M. El Bali**, C. Cañavate, J. Alvar. “Isolation and characterisation of a Nucleosid Diphosphat Kinase cDNA clone from *Leishmania infantum*” New Challenges in Tropical Medicine and Parasitology. Oxford, UK (2000).

Morales, M.A., Chicharro, C., Cañavate, C., Alvar, J., **M. El-Bali** ⊂ Spanish HIV-Leishmania Study Group “Molecular tracking of infections by *Leishmania infantum* in patients coinfected with HIV” New Challenges in Tropical Medicine and Parasitology. Oxford, UK (2000).

Alvar, J., Morales, M. A., Cruz, I., Chicharro, C., **El Bali, M.,** Serra, T. y Cañavate “Molecular tracking of *Leishmania infantum*” 12th Mediterranean Meeting of Chemotherapy. Marrakesh, Morocco (2000).

**M. El Bali**, C. Cañavate, J. Alvar “Isolation and characterisation of a NDPk cDNA clone from *Leishmania infantum*” 12th Mediterranean Meeting of Chemotherapy. Marrakesh, Morocco (2000).

**M. El Bali** “Les antigènes recombinants: application dans le diagnostic de la leishmaniose visceral” 1st Spanish-Moroccan Joint Conference on Leishmaniasis. Rabat, Morocco (2000)

Alvar J, Morales MA, Cruz I, **El Bali M**, Jiménez M, Chicharro C & Cañavate C. “*Leishmania*-HIV Coinfection: Transmission by Syringes” 2nd World Congress on Leishmaniosis [Worldleish 2]. Crete, Greece (2001).

Garrote JI., López R., Gutiérrez MP., Cañavate C., **El Bali M**., Dueñas A., Ruiz L., De Frutos M., RuizCosín C., Alamo R., Orduña A “Seroprevalencia de infección por *Leishmania infantum* en la población de la comunidad autónoma de Castilla y León”. 2ndo Congreso de la Sociedad Española de Medicina Tropical y Salud Internacional, Spain (2001).

**M. El Bali**, M. Chance, J. Carney & M. Hommel. “A semi-quantitative capture ELISA for active visceral leishmaniasis diagnosis using urine samples” British Society for Parasitology Spring Meeting. Chester, UK (2004).

J. Moreno, J. Nieto, E. Carillo, M. Crusat, **M. El Bali**, I. Cruz, C. Chicharro, C. Canavate, J. Alvar “Toward a better understanding of canine leishmaniasis” 9th European Multicolloquium of Parasitology. Valencia, Spain (2004)

M.L. Chance, M. Hommel, **M. El-Bali** and J. Carney. “The diagnosis of visceral leishmaniasis by the detection of Leishmania specific antigen in urine” 3rd World Congress on Leishmaniosis. Worldleish III. Sicily, Italy (2005).

C. Cañavate, E. Law, **M. El-Bali**, M. Flores and J. Alvar. “Molecular colining of a Leishmania infantum recombinant antigen and evaluation of its utility in the serodiagnosis of visceral leishmaniasis” 3rd World Congress on Leishmaniosis. Worldleish III. Sicily, Italy (2005).

Al-Harthi, S. and **El-Bali, M.** "Preliminary investigation of parasitic helminths in Makkah Al-Mukarramah vegetable markets" 1st International Conference of the Arab Society for Medical Research. Cairo, Egypt (2006)

Al-Harthi, S. and **El-Bali, M.** "Implementation of new techniques for a specific and sensitive detection of pathogenic micro-organisms in drinking water" 8th Scientific Conference of Hajj Research activities. Makkah, KSA (2007).

Al-Harthi, S. and **El-Bali, M.** "Detection of drug resistance markers for chloroquine and pyrimethamine-sulfadoxine in Jazan area, Saudi Arabia using PCR and restriction digestion" British Society for Parasitology, Spring Meeting. Nottingham, UK (2011).

Al-Harthi, S. and **El-Bali, M.** "Comparison of different blood collection and DNA extraction methods for malaria diagnosis by PCR in Saudi Arabia" British Society for Parasitology Spring Meeting. Glasgow, UK (2012).

**El-Bali, M.** "Immunochromatographic tests: technology and diagnostic applications for parasitic diseases"Parasitology Day, Regional Laboratory, MOH. Makkah, KSA (2013).

**El-Bali, M.** "Diagnostic Immunochromatographic tests for parasitic diseases"9th Conference of Holly Makkah Laboratories (Update of Clinical Laboratory Science). Makkah, KSA (2014).

**El-Bali Mohammed**, Zaglool DA, Khodari YA, AlHarthi SA "Appraisal of prenatal anti-*Toxoplasma gondii* (IgG+IgM)-IHA/IgM-ELISA screening in single samples via IgG avidity test" 1st Forum for Scientific Research, UQU. Makkah, KSA (2016).

EL-Malky MA, Al-Harthi SA, Mohamed RT, **EL Bali MA**, and Saudy NS " Vaccination with *Toxoplasma* lysate antigen and CpG oligodeoxynucleotides: comparison of immune responses in intranasal versus intramuscular administrations" 1st Forum for Scientific Research, UQU. Makkah, KSA (2016).

Raafat Taha Mohamed Makhlof, Anhar A. Mohamed**, Mohamed A. EL Bali,** Mona A. Abdel-Fatah, Saeed A. Al-Harthi, Mohamed EL-Malky, Nawras M. E. Mowafy, Dina Zaghloul and Rowaida Bakri"Genetic diversity of human *Blastocystis* isolates in Makkah, Saudi Arabia" 2nd International Conference on Parasitology. Manchester, UK (2016).

***Supervision and co-supervision of graduation thesis:***

**2005/2006:** "Investigation of parasitic helminths in Makkah Al-Mukarramah vegetable markets" *Hosting Laboratory Medicine program final year students,* Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2005/2006:** "Adaptation of PCR techniques for malaria diagnosis and Chloroquine resistance related PfCRT gene amplification" *Hosting Laboratory Medicine program final year students,* Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2006/2007:** "Biological and Physio-Chemical survey of drinking water sources in Makkah Al-Mukarramah, KSA" *Hosting Laboratory Medicine program final year students,* Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2006/2007:** "Malaria Survey in Al-Ardah and Al-Khoba Endemic Districts of Saudi Arabia" *Hosting Laboratory Medicine program final year students,* Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2006/2007:** "Molecular Determination of Pfcrt K76T and Pfdhfr C59R Alleles Polymorphisms in Plasmodium falciparum isolates from Jizan" *Hosting Laboratory Medicine program final year students,* Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2007/2008:** "Evaluation of two DNA template preparation methods from dried blood samples on different filter matrices for subsequent diagnosis and differentiation of Plasmodia parasites by multiplex nested-PCR" *Hosting Laboratory Medicine program final year students,* Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2008/2009:** "Evaluation of fecal antigen-capture ELISA method as a possible alternative of conventional diagnosis of Entamoeba hystolitica and Cryptosporidium parvum infections" *Hosting Laboratory Medicine program final year students,* Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

**2009/2010**: "DNA and protein product as biomarkers of oxidative stress in Toxoplasma infected schizophrenia patients" *Hosting Laboratory Medicine program final year students,* Faculty of Medicine, Umm Al-Qura University, Makkah, KSA.

***Technical expertise:***

**Laboratory Diagnosis:** Direct and indirect diagnosis of parasitic infections / Application of Molecular and immunological parasitic diagnostic techniques (ELISA, IFAT, IHA, WB) in different biopsies and body fluids / Development of ELISA and Immunochromatographic tests for parasitic diseases rapid diagnosis.

**Molecular Tools:** Optimization of samples storage and DNA/RNA preparation from biological samples for diagnostic and research purposes / DNA and cDNA cloning / prokaryotic vectors manipulation / PCR and variants (Nested-PCR, Multiplex-PCR, RT-PCR, PCR-RFLP) techniques / Southern and Northern-Blot Hybridizations / Construction and screening of cDNA libraries / Basic Bioinformatic tools (search in EMBL and Genbank, alignment and assembly of DNA and AAs sequences, basics of Laser-gene DNASTAR …).

**Microbiological techniques:** Isolation, manipulation and storage of bacterial strains / Genomic and cDNA libraries screening / Recombinant proteins expression in prokaryote cells and chromatographic purification.

**Immuno Cell Biology:** Culture and screening of hybridoma cells clones / Production, purification and isotyping of monoclonal antibodies / Isolation of Peripheral Blood Mononuclear Cells and culture of macrophages for proliferation tests.

**Languages:**

Arabic: speaking/reading/writing (native language).

French: speaking/reading/writing

Spanish: speaking/reading/writing

English: speaking/reading/writing

*Dr. Mohammed El-Bali*

*July 2018*