



Kasr Al-Ainy



Cairo University

## Curriculum Vitae

**Ayman Abdel-Moa`men El-Badry, M.B.B.Ch., M.Sc., M.D.**



### Present title:

Prof of Medical Parasitology,

- Founder and head of Lab of Molecular Medical Parasitology (LMMP)
- Head of Diagnostic & Research Unit of Parasitic Diseases (DRUP)

Medical Parasitology Dept., Kasr Al-Ainy Faculty of Medicine, Cairo University, Cairo, Egypt.



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Arab Researcher ID 0001-7771

### Qualifications:

- **M.D in Medical Parasitology** (2000), Department of Medical Parasitology, Kasr Al-Ainy Faculty of Medicine, Cairo University, Egypt.
- **Master of Basic Medical Sciences**, with a specialization in **Medical Parasitology – Microbiology & Immunology** (1997), Department of Medical Parasitology, Kasr Al-Ainy Faculty of Medicine, Cairo University, Egypt.
- **M.B.B.Ch.** (1991), Kasr Al-Ainy Faculty of Medicine, Cairo University, Egypt.

### Professional Positions:

- **Professor of Medical Parasitology** – Medical Parasitology Department, Kasr Al-Ainy Faculty of Medicine, Cairo University, Cairo, Egypt. (6/2011 - till present).
- **Founder & Head of Lab of Molecular Medical Parasitology (LMMP)**, (<http://lmmp.kasralainy.edu.eg>.) at the Medical Parasitology Department, Kasr Al-Ainy Faculty of Medicine, Cairo University, Cairo, Egypt (8/2014- till present).
- **Founder and Director of Diagnostic and Research Unit of Parasitic Diseases (DRUP)** at the Medical Parasitology Department, Kasr Al-Ainy Faculty of Medicine, Cairo University, Cairo, Egypt (6/2013- till present).
- Assistant Professor (8/2010-6/2011), Lecturer (4/2001-9/2002), Assistant Lecturer (6/1997-4/2001), Demonstrator (2/1995-6/1997) of Medical Parasitology – Medical Parasitology Department, Kasr Al-Ainy Faculty of Medicine, Cairo University, Cairo, Egypt.

#### **Development & Establishment of Labs & Courses:**

- **Founder and Head of Lab of Molecular Medical Parasitology (LMMP)**, (<http://lmmp.kasralainy.edu.eg>.) Medical Parasitology Department, Kasr Al-Ainy Faculty of Medicine, Cairo University, Cairo, Egypt.  
LMMP was created in 8/2014 within the Medical Parasitology department, Kasr Al-Ainy Faculty of Medicine, Cairo University. LMMP is the first specialized molecular parasitology lab in Egypt to apply molecular tools and bioinformatics in the field of medical parasitology.
- **Founder and Director of “Molecular Medical Parasitology” Training Course Program**, (<http://lmmp.kasralainy.edu.eg/education-training>) at the Medical Parasitology Department, Kasr Al-Ainy Faculty of Medicine, Cairo University, Cairo, Egypt. An innovative training program created as an intensive hands-on course providing 52 hours (over 10-12 weeks) in molecular medical parasitology. This training program serves as a cornerstone of the postgraduate programs for the M.Sc & M.D degrees in medical parasitology. This program also provides training for colleagues from other institutions & Universities nationally and internationally (10/2015 -1/2016; 10/2014 -1/2015; 10/2013-12/2013; 12/2012-3/2013).
- **Founder and Director of the LMMP Brown Bag Seminar (BBS)**  
Founded in 2014 within the Medical Parasitology Department, Kasr Al-Ainy Faculty of Medicine, Cairo University, Cairo, Egypt. Topic Title: 1. Apicoplast: Molecular Marker; 2. DNA Bar-coding; 3. Exosomes: The future of Biomarkers in Medicine; 4. Multiplexing: Multiplex PCR (MP-PCR); 5. Evolution of Schistosoma; 6. Multilocus Genotyping; 7. Epigenetics; 8. Parasites; The Lost Friends Theory; 9. Molecular Markers.
- **Founder and Director of Diagnostic and Research Unit of Parasitic Diseases (DRUP)**  
Founded in 6/2013 within the Medical Parasitology Department, Kasr Al-Ainy Faculty of Medicine, Cairo University, Cairo, Egypt. DRUP was developed within the Medical Parasitology department, Kasr Al-Ainy Faculty of Medicine, Cairo University to provide many services, including: diagnostic services for patients, scientific research, collaboration with different institutions inside and outside Egypt, seminars/training programs/workshops/lectures in medical continuing education and serving as a consultation and reference in the field of Medical Parasitology in Egypt and the Middle East.
- **Established a molecular biology lab** at Taibah University, Saudi Arabia (2008-2010).

#### **Subjects Taught:**

- **POSTGRADUATE Medical Students: Medical Parasitology (Clinical & Diagnostic); Medical Helminthology, Medical Protozoology; Medical Entomology; Immuno-Parasitology;**

**Molecular Parasitology**, Kasr Al-Ainy Faculty of Medicine, Cairo University, (4/1997-9/2002; 8/2010-till present); El-Fayium University, Egypt (9/2012-7/2014); Beni-Suief University, Egypt (9/2010-till present).

- POSTGRADUATE elective courses: **Microscopy, Ultra-Structure of Medical Protozoa, & Ultra-Structure of Medical Helminths** for postgraduate (M.D) medical students, Kasr Al-Ainy Faculty of Medicine, Cairo University, Cairo, Egypt (9/2010 - till now).
- POSTGRADUATE Medical Students and faculty of Medicine staff members: **Medical Molecular Parasitology**, Medical Parasitology Department, Menoufia Faculty of Medicine, Menoufia University, Menoufia, Egypt (academic year 2014/2015).
- UNDERGRADUATE Medical Students: **Medical Parasitology (Clinical & Diagnostic); Medical Helminthology, Medical Protozoology; Medical Entomology; Immuno-Parasitology; Molecular Parasitology**, Faculty of Medicine, Cairo University, Egypt (4/1995-9/2002; 8/2010-till present), Beni-Suief University, Egypt (4/1995-9/2002; 8/2010-till present), & El-Fayium University, Egypt (4/1995-9/2002).

### **International collaboration & training:**

#### **- United Kingdom:**

- Collaborative research project (Funded by a grant from Daniel Turnberg UK/Middle East June 2014):
  - **BioMedical Research Centre (Dr Kevin Tyler Lab)**, Norwich Medical School, University of East Anglia, Norwich, Norfolk, UK. Training in: lab design and the establishment of molecular labs; molecular characterization and genotyping of *Cryptosporidium* & *Giardia* parasites; *in vitro* culturing of *Giardia* & *Trichomonas* Parasites; sample processing.
  - **Cryptosporidium Reference Unit (Dr. Elwin Kristin & Dr Rachel Chalmers)**, Public Health Wales Microbiology, Singleton Hospital, Swansea, UK. Training in the application/use of modern technological advances to diagnose *Cryptosporidium* and develop novel interventions for its control, treatment and prevention.
  - **Department of Pathogen Molecular Biology (Dr. Graham Clark)**, London School of Hygiene and Tropical Medicine, London, U.K, characterization of Endamoeba and *Blastocystis* parasites.
- Bioinformatics workshop: “**Working with parasite data base resources**” 35 hours of contact time, open door, residential hands on courses on visualization of sequence features; genomic scale data analysis, including genome browsers & comparison tools; methods of data integration; resources for sophisticated data mining. Parasite Genomics Group, **Sanger Institute**, Wellcome Trust Genome Campus, Hinxton, **Cambridge, United Kingdom** (21-26<sup>th</sup> October, 2012).

**- Spain: Malaria & Emerging Parasites Diseases Lab.** (MAPELab) (**Dr. José Miguel Rubio Lab**), Parasitology Department, Microbiology National Center, and Genomic & Proteomic Unit, Institute of Salud Carlos III, Cra. Majadahonda, Madrid, Spain:

- Hands on experience and training in Molecular Diagnosis & Genotyping of Malaria, *Cryptosporidium*, *Giardia*, *Entamoeba histolytica*, & Filaria; transfer of methodology using PCR variants and sequencing. Sequence analysis (using Blast, Bioedit, ClustalW & Treecon for phylogentic reconstruction) (20/8/2012-3/9/2012).
- **Collaborative research project**, Molecular detection of *Capillaria philippiensis*, and published 2015.
- **Collaborative supervision of 2 M.D theses:**

“Detection of *Wuchereria bancrofti*-DNA using Polymerase Chain Reaction in Egypt”. M.D. thesis. Principal-Supervisor (5/2013-5/2015).

“Preliminary study for detection of *Capillaria philippinensis* Copro-DNA in diarrheic patients.” Co-Supervisor (7/2012-6/2014).

- **Germany: Molecular Parasitology Laboratory (Dr. Gabriele Schonian)**, Institute for Microbiology and Hygiene, Medical School of Charite'-Campus Mitte, Humboldt University, Berlin, Federal Republic of Germany:

- **Scientific Visit** to Germany, for the establishment & organization of a research lab for molecular diagnosis of Leishmaniasis and techniques for molecular characterization of Leishmania parasite (DNA extraction, DNA Purification, Normal agarose and MetaPhor agarose gel electrophoresis, PCR amplification techniques and PCR-RFLP technique) (15/7/2009-15/8/2009).
- **Collaborative project** “Molecular Identification and Genotyping of *Leishmania* at Al-Madinah Al-Munawarah” with 2 publications for which **Dr Schonian** was a consultant.

- **Sudan:**

- External reviewer in promotion committee of professor position (4-5/2016)
- **Collaborative project for Ph.D research:** “Real-Time PCR in detection of Plasmodium falciparum and Plasmodium vivax species, Sudan.” Served as mentor for the design and the molecular work (2014).
- Supervisor of 2 Ph.D. theses:  
"Screening of *Entamoeba Histolytica* pathogenic and non-pathogenic strains by various techniques in Wad Medani – Sudan" 12/2007-2/2014. Ph.D. thesis. Co-Supervisor.  
"Diagnosis of Kala-Azar from buffy coat using different techniques including polymerase chain reaction from peripheral blood sample in Gadarif State, Central Sudan " 12/2013-running. Ph.D. thesis. Co-Supervisor.
- Training program in molecular diagnosis of parasitic diseases (Cairo, 6/2013).

- **Malaysia:**

- External assessor for the promotion board of associate professor positions, Advanced Medical & Dental Institute, Sains Malaysia University, Malaysia, (7/2011).

- **Syria:**

- External reviewer in defense committee of Ph.D thesis: “Identification of *Leishmania* species and sand flies species transmit it in North and East Syria using modern techniques (Morphological and Molecular taxonomic classification)” Parasitology Department, Faculty of Science, Aleppo University, Syrian Arab Republic, (17/8/2006).
- **Collaborative project for culturing, immuno-molecular diagnosis of Leishmania**, Parasitology Department, Faculty of Science, Aleppo University, Syrian Arab Republic, (2/2008).

**Director and lead speaker for Medical Molecular Parasitology Workshops organized by DRUP & LMMP.** Department of Medical Parasitology, Kasr Al-Ainy Faculty of Medicine, Cairo University:

1. “Diagnostic effectiveness of screening and diagnostic tests: application in infections (parasitic)” (12/3/2016).
2. “Bioinformatics workshop: Bioinformatics: an introduction & DNA sequence(s) databases” (10/3/2016).
3. "PCR primer basic design" (3/12/2015).
4. "Successful identification of faecal parasitic stages” (9-10/4/2014).
5. "Immunodiagnosics: Key elements for parasites detection" (11/3/ 2014).

6. "PCR primers validation" (3/3/2013).
7. "PCR for blood parasites" (15-16/6/2013).
8. "Faecal examination for successful identification of Helminthic diagnostic stages" (17/5/2013).
9. "Biomedical statistics workshop: basic level" (22-23/12/2012).
10. "Nested PCR-RFLP workshop: molecular identification of protozoa genotypes" (13-14/10/2012).
11. "Copro-DNA extraction & its implementation: genetic faecal biomarker" (26/5/2012).
12. "Faecal microscopy: successful identification of protozoa" (21/4/2012).
13. "Lab diagnosis of intestinal protozoa (oo)cysts: updated faecal microscopy & immunoassays" (12/4/2012).

**Director and lead speaker of Workshops organized in Istanbul, Turkey** –During MEMBS Annual congress.

1. "DNA Extraction for successful identification of Blood Parasites," **Istanbul, Turkey** -MEMBS Annual congress (17/9/2015).
2. "Sequence to phylogeny" **Istanbul, Turkey** -MEMBS Annual congress (17/9/2015).

**Training workshops:**

- Medical Education & Electronic learning courses & workshops:
  - "Medical Researches" (16-19/7/2005), "Evaluation of Teaching & Students" (24-27/7/2005) Faculty and Leadership Development Project. Cairo Univ., Egypt.
  - "Medical Education Workshops" I in 18:19/6/2006, II in 29:30/8/2006, & III in 13:14/12/2006, each 10 credit hours CME at the college of Medicine, Taibah Univ., Al-Madinah Al-Munawwarah, KSA.
  - University development deanship, Taibah Univ., Almadinah, KSA
    - "Development of university staff member teaching skills: university teaching strategies" (23-25/4/2007)
    - "Awareness Day Workshop on Applied Blended Learning for Academic Staff" (22/1/2008).
    - "Academic accreditation: understanding & how to obtain" (22/12/2008).
  - "Electronic Learning in Saudi Universities scientific steps for shared success" 5<sup>th</sup> workshop. Taibah Univ., & National Centre of electronic and tele-learning, KSA (26-28/5/2008).
  - "Academic Accreditation" Taibah University, Saudi Arabia (6-7/11/2007).
  - "Academic accreditation for educational colleges in Arab Countries: views & trials" Taibah University, Al-Madinah Al-Munawwarah, KSA. 18-20/5/2009.
- **"Modern Approach in Publishing Ethics"** Academy of Scientific Research and Technology, Cairo, Egypt (19/3/2016).
- **Bioinformatics: "Working with parasite data base resources"** 35 hours of contact time, open door, residential hands on courses on visualization of sequence features, genomic scale data analysis, including genome browsers & comparison tools, methods of data integration, resources for sophisticate data mining. Parasite genomics group, Sanger institute, Wellcome Trust Genome Campus, Hinxton, **Cambridge, United Kingdom** (21-26<sup>th</sup> October, 2012).
- **"Diagnosis of Infectious Diseases by Direct PCR On Blood Samples"** MIU, Al-Azhar University, Cairo, Egypt (21/10/2010).
- "Leica Pathology Day: **Digital Microscopy**" (28/3/2007); **"Digital microscopy and imaging"** Jeddah, KSA /Saudi Arabia (9/2005).

## AWARDS:

- **Cairo University Scientific Publishing Award**, for highest ranking articles for the academic years of 2013/2014; 2012/2013, 2011/2012.
- **Shield of the Uniformed Services, University of Wisconsin**, Naval School of Health, Bethesda, Maryland, U.S.A. Awarded for teaching medical Parasitology to the postgraduate students in the course of Tropical Medicine. Hosted by NAMRU-3, Cairo University (8-26/8/2004), (7-25/8/2005) & (7-25/8/2006).

## Recorded Isolates of DNA sequences at GenBank

- 43 Isolate of *Cryptosporidium* (gp60): GenBank accession numbers **KX397527.1-KX397569.1**
- 43 Isolate of *Cryptosporidium* (hsp90): GenBank accession numbers **KX379767.1-KX379809.1**
- 43 Isolate of *Cryptosporidium* (COWP): GenBank accession numbers **KX365850.1-KX365892.1**
- 15 isolates of *Wuchereria bancrofti*: GenBank accession numbers **KP114615.1 -KP114629.1**
- 8 isolates of *Capillaria philippinensis*: GenBank accession number **EU004822**
- Isolate of *Trichomonas vaginalis*: GenBank accession number **KJ130032.1**
- Isolate of *Cryptosporidium parvum*: GenBank accession number **JX566877.1**
- 8 isolates of *Aedes aegypti*: GenBank accession numbers **AB594484.1-AB594491.1**

## Member of Scientific Committees, Scientific Societies, Scientific Conferences.

Member of MEMBS (Middle East Molecular Biology Society) Advisory Committee board

Reviewer in national and international scientific journals and scientific committees.

Associate Editor In national and international journals; including (<http://scialert.net/eboard.php?issn=>):

1. **Research Journal of Parasitology** (ISSN 1816-4943) (<http://scialert.net/eboard.php?issn=1816-4943>)
2. **Journal of Medical Sciences** (ISSN 1682-4474) (<http://scialert.net/eboard.php?issn=1682-4474>)
3. **Journal of Applied Sciences** (ISSN 1812-5654) (<http://scialert.net/eboard.php?issn=1812-5654>)
4. **Journal of Entomology** (ISSN 1812-5670) (<http://scialert.net/eboard.php?issn=1812-5670>)
5. **Research Journal of Microbiology** (ISSN 1816-4935) (<http://scialert.net/eboard.php?issn=1816-4935>)
6. **Journal of Biomedical and Pharmacology** (ISSN 0974-6242)
7. **Kasr Al-Ainy Medical Journal (KAMJ)** (<http://www.kamj.eg.net/editorialboard.asp>)

## Funded Research Projects (current and completed)

1. “Effects of synthetic and natural agents on molecularly characterized *Cryptosporidium* species: an experimental model” Research Project Committee, Theodor Bilharz Research Institute. (3/2016-present). Role: Consultant.
2. “Detection of infective stages of medically important parasites contaminating water bodies” Research Project Committee, Theodor Bilharz Research Institute, (3/2016-present). Role: Consultant.
3. “Detection and Evaluation of Viability of *Cryptosporidium* and *Giardia* in Water samples in Beni Suef Governorate using PCR and Staining” (3/2016-present). Role: Co-Investigator.
4. “*Toxoplasma* DNA and anti-*Toxoplasma* antibodies prevalence in patients with chronic renal failure attending Beni-Suief Univ. hospitals” (3/2016-present). Role: Co-Investigator.

5. **“Identification of *Culex* mosquitoes and Molecular identification of *Culex* transmitted Filaria in Beni-Suef Governorate”** (3/2016-present). Role: Co-Investigator.
6. **“Diagnosis of cryptosporidium by real time PCR in stool of patients attending Beni Suief Univ. hospitals”** Duration 1 year from 2/2015. Role: Co-Investigator.
7. **“Genotypic analysis of *Giardia intestinalis* in children in Beni Suief Governorate. Egypt”** Duration 1 year from 3/2014. Role: Co-Investigator.
8. **“*Entamoeba histolytica* Copro-DNA detection in stool of patients attending Beni Suief University hospital”** Duration 1 year from 3/2013. Role: Co-Investigator.
9. **“Impact of schistosomiasis infection on the use of fibroscan for staging of fibrosis in chronic HCV patients (Acronym: Schisto Fibroscan)”** National Academy of Science & Technology, Cairo, Egypt. Duration 2 years (2012-2014). Role: Co- Investigator.
10. **“Anti- Cancer Activity of two medicinal plants of Al-Madinah Al-Munawarah”** Duration 10 months from 7/2010, Role: Co-Investigator.
11. **“Anti- Cancer Activity of two medicinal plants of Al-Madinah Al-Munawarah”** Deanship of Scientific Research, vice rector of academic studies and scientific research, Taibah University, Al-Madinah, Saudi Arabia. Research No.: 679/431. Duration 10 months from 7/2010. Role: Co-Investigator.
12. **“Molecular Identification and Genotyping of *Leshmania* at Al-Madinah Al-Munawarah”** Strategic Research Unit, Strategic Science, Advance Technology and Innovation Unit, Taibah University- Research No. 08-BIO25-5. Role: Principle Investigator From 10/2009-8/2010 then consultant from 8/2010-8/2012.
13. **“The efficacy of web problem based learning versus traditional discipline learning in biomedical sciences”** Deanship of Scientific Research, vice rector of academic studies and scientific research, Taibah University, Al-Madinah, Saudi Arabia. Research No.: 437/430. 7/2009-5/2010. Role: Co-Investigator.
14. **“Anti-Viral Activity of two Labiatae plants [Naana (Hassoi, Habak) and Basil (Rahan)] of Al-Madinah Almunawarah”** Deanship of Scientific Research, vice rector of academic studies and scientific research, Taibah University, Al-Madinah, Saudi Arabia. Research No.: 422/430. 7/2009-5/2010. Role: Co-Investigator.
15. **“Molecular identification & prevalence of *Giardia lamblia* & *Cryptosporidium* in duodenal aspirate in Al-Madinah Al-Munawarah.”** Deanship of Scientific Research, vice rector of academic studies and scientific research, Taibah University, Al-Madinah, Saudi Arabia. Research No.: 436/430. 7/2009-5/2010. Role: Principle Investigator.
16. **“Genotypes of *Hepatitis C virus* in infected patient from Al-Madinah Almunawarah”.** Deanship of Scientific Research, vice rector of academic studies and scientific research, Taibah University, Al-Madinah, Saudi Arabia. Research No.: 214/429. 5/2008-3/2009. Role: Co-Investigator.
17. **“Anti-Parasitic Activity of Naana (Hassoi, Habak) and Basil (Rahan) of Al-madiah Almunawarah on *Entamoebma histolytica* & *Giardia lamblia*”.** Deanship of Scientific Research, vice rector of academic studies and scientific research, Taibah University, Al-Madinah, Saudi Arabia. Research No.: 213/429. 5/2008-3/2009. Role: Principle Investigator.
18. **“Genetic prevalence of acute toxoplasmosis among pregnant women in Al-Madianah Al-Munawwarah”.** King Abdul-Aziz City for Science and Technology - General Directorate for Research Grants – Annual Research Program. Research No.AT-27-33. 2/2008-12/2009. Role: Co-Investigator.
19. **“Dengue mosquito, *Aedes* prevalence and dengue virus detection in Al-Madinah Al-Munawwarah”** King Abdul-Aziz City for Science and Technology - General Directorate for Research Grants – Annual Research Program. Research No.AT-27-34. 2/2008-12/2009. Role: Principle Investigator.

20. **“Assessment of the undergraduate educational environment in AL-Madinah AL-Munawarah medical schools”**. Deanship of Scientific Research, vice rector of academic studies and scientific research, Taibah University, Al-Madinah, Saudi Arabia. Research No.: 122/428. 3/2007-2/2008. Role: Consultant.
21. **“Nosocomial diarrhoea in surgical wards”** Deanship of Scientific Research, vice rector of academic studies and scientific research, Taibah University, Al-Madinah, Saudi Arabia. Research No.: 142/428. 3/2007-2/2008. Role: Co-Investigator.
22. **“Sand flies identification in Al-madiyah Almunawarah area and their role in *Leishmania* transmission”** Deanship of Scientific Research, vice rector of academic studies and scientific research, Taibah University, Al-Madinah, Saudi Arabia. Research No.: 129/428. 3/2007- 2/2008. Role: Principle Investigator.
23. **“Identification of *Culex* mosquitoes and *Culex* transmitted parasitic and viral diseases in Al-Madinah Almunawarah”** Deanship of Scientific Research, vice rector of academic studies and scientific research, Taibah University, Al-Madinah, Saudi Arabia. Research No.: 130/428. 3/2007-2/2008. Role: Co-Investigator.
24. **“Evaluation of the problem of Fascioliasis in Egypt”** project no.107, National Academy of Science & Technology, Cairo, Egypt. 1998- 2002. Role: Co-Investigator.

#### **SUPERVISION of THESES & RESEARCH (Current and Completed)**

1. **"Genotypic Prevalence of *Cryptosporidium* Among Egyptian Hepatic Cirrhotic Patients."** M.D thesis, Co-Supervisor (2/2016-present).
2. **"Copro-scopic and copro-molecular detection of *Cryptosporidium* spp. Infecting humans and animals in Sharkiya Proviance, Egypt."** M.D thesis, Co-Supervisor (2/2016- present).
3. **"Enteric Parasitic protozoa in drinking water sources in Sharkia (Zagazig)."** M.D thesis, Co-Supervisor (2/2016- present).
4. **"Sero-molecular prevalence of *Toxoplasma gondii* in farm animals (goats and sheep) in Sharkiya Governorate, Egypt."** M.Sc thesis, Co-Supervisor (2/2016-present).
5. **"Genotypic variance analysis of *Cryptosporidium* isolates from stool of Children in Egypt".** M.D thesis, Principal-Supervisor (7/2014-present).
6. **"Estimation of Demdex Folliculorum infestation in acne vulgaris and its relation to acne severity"** M.Sc. thesis. Co-Supervisor (2/2014-present).
7. **"Parasitological and Immuno-Molecular Diagnosis of Kala-Azar from Peripheral Blood Buffy Coat in Endemic area in Sudan"** Ph.D. thesis. Co-Supervisor (12/2013-10/2016).
8. **"Molecular detection of *Wuchereria bancrofti* DNA in human blood and mosquitoes from filariasis endemic areas in Egypt".** M.D thesis. Principal-Supervisor (6/2013-5/2015).
9. **"Evaluation of mesenchymal stem cell as a cure for multiple organ damage induced by experimental visceral larva migrans."** M.D thesis, Co-Supervisor (6/2015-present).
10. **"Coproscopic and copro-molecular detection of *Cryptosporidium* in human and animals in Sharkiya governorate, Egypt"** M.Sc. thesis. Co-Supervisor (12/2012 – running).
11. **"Detection of *Entamoeba histolytica* Copro-antigen in Diarrhetic Stool samples from patients at Beni-Sueif University Hospital"** M.Sc. thesis. Co-Supervisor (11/2012-9/2013).
12. **"Detection of PCR-amplified *Leishmania* DNA from archived slides from clinically suspected cases of cutaneous leishmaniasis from Libya"** M.Sc. thesis. Principal-Supervisor (10/2012-9/2013).
13. **"Copro-Prevalence of intestal protozoa *Entamoeba histolytica*, *Giardia lamblia* and *Cryptosporidium* spp. in expatriate patients of the German Embassy Clinic in Cairo"** M.Sc. thesis. Co-Supervisor (10/2012-3/2013).



14. **“Copro-Molecular characterization of *Cryptosporidium* Spp. among infected children using PCR-RFLP”** M.Sc. thesis. Principal-Supervisor (9/2012-9/2013).
15. **“Molecular identification & copro-prevalence of *Cryptosporidium* species in Egyptian children”** M.Sc. thesis. Principal-Supervisor (9/2012-6/2013).
16. **“Preliminary study for detection of *Capillaria philippinensis* Copro-DNA in diarrheic patients”** M.D. thesis, Co-Supervisor (7/2012-7/2014).
17. **“Detection of Giradiasis in children using conventional parasitological and Immuno-Molecular techniques”** Ph.D. thesis. Co-Supervisor (3/2012-present).
18. **“Detection of Trichomonal DNA using Real-Time PCR assay versus culture”** M.D. thesis, Co-Supervisor (10/2011-1/2014).
19. **“Effect of Mefloquine in Murine Schistosomiasis *Mansoni* as a Prophylactic and Chemotherapeutic Agent Compared to Praziquantel”** M.D. thesis. Co-Supervisor (4/2011-4/2013).
20. **“Detection of Cryptosporidial Copro-DNA in Diarrhoeic faecal samples from Egyptian children”** M.Sc. thesis. Co-Supervisor (4/2011-9/2012).
21. **“Screening of *Entamoeba histolytica* Pathogenic and Non-Pathogenic Strains By various Techniques in Wad Medani – Sudan”** Ph.D. thesis. Co-Supervisor (12/2007-2/2014).

**Research and academic interests:**

- Transcriptomes of *Giardia* & *Cryptosporidium*
- Molecular characterization, microscopy and immunodiagnostics of imported Malaria from Africa & Asia; also Malaria & *Leishmania* from Sudan.
- Development of a new family of genes serving as molecular markers for intestinal protozoa (*Cryptosporidium* and *Giardia*).
- Molecular characterization of water borne free living amoebae as biomarkers for water contamination.
- Genotypic variance analysis of highly morbid and mortal human parasites.
- Novel therapeutics and anti-parasitic activity.
- Host-parasite interaction.
- Vectors & Vector-borne diseases and their control.
- Devising effective lab & research training programs for post-graduate, graduate and under-graduate medical students.
- Teaching pedagogy especially student-centered pedagogy as Problem-based learning (PBL), curriculum & course design and methods of evaluation for under & post-graduate medical students.

## List of Publications:

### In preparation:

- Molecular characterization of Plasmodium falciparum and Plasmodium vivax species, Sudan
- Genotypic variance analysis of Cryptosporidium isolates from stool of Children in Egypt
- Parasitological and Immuno-Molecular Diagnosis of Kala-Azar in Endemic area in Sudan
- Molecular seasonality of *Giardia intestinalis* in a cohort of Egyptian children: A Circannual Pattern
- Molecular identification of free living amoebae contaminating water bodies

### Full Papers

2016

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Sandokji, A.M., Heissam Kh. and **El-Badry, A.A.** (2010): The efficacy of web problema based learning versus traditional disipline learning in biomedical sciences. Presentation at "INTED 2010, the International Technology, Education and Development Conference", 8-10/3/2010, at Valencia, SPAIN.  
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### **Conference Featured Talks:**

- Nosocomial parasites: a potential hidden risk.** 4<sup>th</sup> Annual Conference of Occupational Health And Infection Control Inside Hospitals "Towards Safe ICUs" 9-10/3/2-16, Main Conference Center-Kasr Al-Ainy School of Medicine, Cairo, Egypt.
- Intestinal Parasites Diagnostics: Faecal Testing Options & Work Flow-Chart.** 24<sup>th</sup> Annual Conference of The Egyptian Society of Laboratory Medicine "ESLM 2013: Clinician-Friendly Approach" 13-15 April, 2013. Cairo International Conference Center, Cairo, Egypt.
- Time to search for Cryptosporidia: A child killer.** 25<sup>th</sup> Annual Conference of The Egyptian Society of Laboratory Medicine (ESLM) "ESLM 2014: THE SILVER JUBILEE" 1-3 April, 2013. Cairo International Conference Center, Cairo, Egypt.
- Parasitic Diseases in“-Omics” Era and Bioinformatics of Parasitic Diseases.** The 3<sup>rd</sup> Conference of Egyptian Parasitologists United Society (EPU III) "Parasitology: Everlasting Development" Cairo, Egypt, 10-11 October, 2012.
- Copro-PCR for Diagnosis of Gastrointestinal & Hepatobiliary Parasitic Diseases.** 9<sup>th</sup> Annual Conference of Egyptian Association for the Study of Gastro-intestinal and Liver Disease (EASGLD). 26-27 September, 2012. Cairo, Egypt.

### **Conference abstracts:**

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