



## FACULTY FULL NAME:

Dr. Elfadil Mustafa Abass

### POSITION:

Associate Professor

### Personal Data

Nationality | Sudan

Date of Birth |

Department | Clinical Laboratory Science

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### Language Proficiency

Language	Read	Write	Speak
Arabic	Native	Native	Native
English	Fluent	Fluent	Fluent
German	Intermediate	Intermediate	Intermediate

### Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2013	PhD	Germany	Institute for Medical Microbiology and Hospital Hygiene, Philipps University, Marburg, Germany
2003	MSc	Sudan	Faculty of Medicine, Juba University, Khartoum, Sudan
1996	BSc	Sudan	Faculty of Medical Laboratory Sciences, University of Khartoum, Khartoum, Sudan

### PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Identification of a Novel Recombinant Protein for Improved Diagnosis of Visceral Leishmaniasis in Sudan
Master	Evaluation of an Analogous Direct Agglutination Test in an ELISA technique for Diagnosis of Visceral Leishmaniasis in Sudan
Fellowship	---



### Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Associate Professor	Department of Clinical Laboratory Science	College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University (IAU), Dammam, Saudi Arabia	Apr. 6, 2021	Present
Assistant Professor	Department of Clinical Laboratory Science	Research and Grant Unit, Ahfad University for Women, Omdurman, Sudan	Feb. 20, 2017	Apr. 5, 2021
Assistant Professor	Laboratory for Biomedical Research	Institute for Medical Microbiology and Hospital Hygiene, Philipps University, Marburg, Germany	Jan. 1, 2014	Jan. 12, 2017
Post-doc	Microbiology	Institute for Medical Microbiology and Hospital Hygiene, Faculty of Medicine, Philipps University, Marburg, Germany	Sep. 25, 2013	Aus. 31, 2014
PhD candidate	Microbiology	Ahfad University for Women, Omdurman, Sudan	Oct. 1, 2009	Sep., 23, 2013
Lecturer	Microbiology	Ahfad University for Women, Omdurman, Sudan	Sep. 13, 2003	June, 1, 2009
Teaching Assistant	Microbiology	Ahfad University for Women, Omdurman, Sudan	Jul. 1, 1997	Dec. 1, 2000

### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Program Coordinator	Clinical Laboratory Science, College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal, Dammam, Saudi Arabia.	Apr. 2018-17/1/2022
Program Coordinator	MSc Microbiology track, Faculty of Medical Laboratory Sciences, Sudan International University	2014-2017
Chairperson	Department of Microbiology, Faculty of Medical Laboratory Sciences, Sudan International University	2014-2017

### Scientific Achievements



## Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Hassan FM, Alsultan AA, Alzahrani F, Albuali WH, Bubshait DK, Abass EM, Elbasheer MA, Alkhanbashi AA.	Identification of RPL5 gene variants and the risk of hepatic vein thrombosis in Saudi patients.	Saudi Med J. 42(9):969-974. doi: 10.15537/smj.2021.42.9.20210240. PMID: 34470834. 2021.
2	Hassan, F. M., Alsultan, A., Alzehrani, F., Albuali, W., Bubshait, D., Abass, E., Elbasheer, M., & Alkhanbashi, A..	Genetic Variants of RPL5 and RPL9 Genes among Saudi Patients Diagnosed with Thrombosis.	Medical archives (Sarajevo, Bosnia and Herzegovina), 75(3), 188–193. <a href="https://doi.org/10.5455/medarh.75.188-193">https://doi.org/10.5455/medarh.75.188-193</a> . 2021.
3	Abass E	Low serum zinc concentrations in Sudanese patients with visceral leishmaniosis does not impair the anti-Leishmania antibody response.	Ann Parasitol. 2020;66(4):481-488. doi: 10.17420/ap6604.288. PMID: 33646737. 2020.
4	Pereira IE, Silva KP, Menegati LM, Pinheiro AC, Assunção EAO, Araújo MLP, Abass E, Duthie MS, Steinhoff U, Teixeira HC.	Performance of recombinant proteins in diagnosis and differentiation of canine visceral leishmaniasis infected and vaccinated dogs.	Eur J Microbiol Immunol (Bp). 27;10(3):165-171. doi: 10.1556/1886.2020.00018. PMID: 32857712; PMCID: PMC7592511. 2020.
5	Abass E.	Leishmania donovani infection in Eastern Sudan: Comparing direct agglutination and rK39 rapid test for diagnosis-a retrospective study.	Asian Pac J Trop Med. 13(7): 322-327. Doi: 10.4103/1995-7645.28583. 2020.
6	Abass E, Haroun A and Jomaa M .	Serological screening of HIV and viral hepatitis revealed low prevalence among visceral leishmaniosis in Sudan.	Ann Parasitol. 66(2): 135-141. Doi: 10.17420/ap6602.248. 2020.
7	Abass E, Al-Hashem Z, Yamani LZ.	Leishmaniasis in Saudi Arabia: Current situation and future perspectives.	Pak J Med Sci. 36(4): 836-842. Doi: <a href="https://doi.org/10.12669/pjms.36.4.2121">0.12669/pjms.36.4.2121</a> . 2020.
8	Harith AE, Mahamoud A, Abass E, Mansour D, Moura de Melo C, Madi RR, Seniao-Santos SJ, Osman HA.	Modifications in a Reference Freeze-Dried Direct Agglutination Test to Improve Visceral Leishmaniasis Detection.	Am J Trop Med Hyg. 102(4):782-787. Doi:10.4269/ajtmh.19-0745. 2020.



9	Luu M, Romero R, Razant J, Abass E, Hartmann S, Leister H, Fisher F, Mahdavi R, Plaza-Sirvent C, Schmitz I, Steinhoff U (2020).	The NF-κB transcription factor c-Rel controls host defense against <i>Citrobacter rodentium</i> .	Eur J Immunol 50 (2): 292-294. Doi.org/10.1002/eji.201948314. 2020
10	Harith AE, Mahamoud A, Awad Y, Mansour D, Abass EM, Agib AE, Madi RR, Seniao-Santos SJ, Osman HA.	Are We Now Well Prepared for Another Major Visceral Leishmaniasis Epidemic in Sudan?	Open Forum Infect Dis. 6 (10): ofz226. Doi:10.1093/ofid/ofz226. 2019.
11	Mohammed I, Abass E.	Phenotypic detection of Extended Spectrum β-Lactamases (ESBL) among gram negative uropathogens reveals highly susceptibility to imipenem.	Pak J Med Sci. 35 (4): 1104-1109. Doi: 10.12669/pjms.35.4.207. 2019.
12	Mahamoud A, Osman HA, Abass EM, Agib AE, Madi RR, Semiao-Santos SJ, Harith AE.	Identification of an area predominantly endemic for childhood and adolescent visceral leishmaniasis in central Sudan.	Acta Tropica 178(2018): 142-147. Doi.org/10.1016/j.actatropica.2017.11.010. 2018.
13	Abass E, Abduljalil W, Alnour S, Mohammed T, Hamid S, Mostafa S, Basheer M	Seroprevalence of Rubella Antibodies in Infertile and Pregnant Sudanese Women.	J Cli Dia Res, 12 (12): DC17-DC20. Doi: <a href="https://doi.org/10.7860/JCDR/2018/37771.12404">10.7860/JCDR/2018/37771.12404</a> . 2018.
14	Martínez Abad LP; Almeida CS; Mattos AMM; Mendonça ACP; Alves MJM; Pinheiro AC; Porrozzi; Abass E; Steinhoff U; Teixeira HC.	Diagnostic Accuracy of rKLO8 Versus rK26 ELISAs for Screening of Canine Visceral Leishmaniasis Compared to the Methods Officially Adopted in Brazil.	Acta Tropica 166(2017): 133–138. Doi: 10.1016/j.actatropica.2016.11.021. 2017.
15	Osman HA, Mahamoud A, Abass EM, Madi RR, Santos SJS, Harith AE.	Local production of a liquid version of direct agglutination test as sustainable measure for visceral leishmaniasis control in Sudan.	Am J Trop Med Hyg. 94(5): 982-986 Doi: 10.4269/ajtmh.15-0574. 2016.
16	Abass E, Steinhoff U, Harith AE.	Challenges in the Diagnostic of Visceral Leishmaniasis in Sudan.	Inter. J. Coll. Res. Intern. Med. Pub. Health. 8(8): 470-471. 2016.
17	Abass E, Cholho Kang, Franjo Martinkovic, Saul J. Semião-Santos, Peter Walden, Renaud Piarroux, Abdallah el Harith, Michael Lohoff, Ulrich Steinhoff.	Heterogeneity of <i>Leishmania Donovanii</i> Parasites Complicates Diagnosis of Visceral Leishmaniasis: Comparison of Different	PLoS ONE 10(3): e0116408. Doi: 10.1371/journal.pone.0116408. 2015.



		Serological Tests in Three Endemic Regions.	
18	Abass E, Bollig N, Reinhard K, Camara B, Mansour D, Visekruna A, Lohoff M, Steinhoff U.	rKLO8, a Novel Leishmania donovani–Derived Recombinant Immunodominant Protein for Sensitive Detection of Visceral Leishmaniasis in Sudan.	PLoS Neg Trop Dis. 7(7): e2322. Doi: 10.1371/journal.pntd.0002322. 2013.
19	Bollig N, Brüstle A, Kellner K, Ackermann W, Abass E, Raifer H, Camara B, Brendel C, Giel G, Bothur E, Huber M, Paul C, Elli A, Kroczeck R, Nurieva R, Dong C, Jacob R, Mak T and Lohoff M.	Transcription factor IRF4 determines germinal center formation through follicular T-helper cell differentiation.	Proc Natl Acad Sci U S A. 109(22):8664-8669. Doi: 10.1073/pnas.1205834109. 2012.
20	Reinhard K, Huber M, Weber C, Hellhund A, Toboldt A, Abass E, Casper B, Herr C, Bals R, Steinhoff U, Lohoff M, Visekruna A.	c-Rel promotes type1 and type 17 immune responses during Leishmania major infection.	Eur J Immunol. 41(5):1388-1398. Doi: 10.1002/eji.201041056. 2011.
21	Abass E, Mahamoud A, Mansour D, Mohebbali M, Harith AE.	Validation of a $\beta$ -ME ELISA for Detection of Anti Leishmania Donovanii Antibodies in Eastern Sudan.	Iran J Immunol. 8(3): 150-158. Doi: IJlv8i3A2. 2011.
22	Mansour D, Abass EM, Mahamoud A, el Harith A.	Qualitative and semi-quantitative comparison of an rK39 strip test and direct agglutination test for detection of anti-Leishmania donovani antibodies in the Sudan.	Iran J Immunol. 6(4): 208-215. Doi: IJlv6i4A6. 2009.
23	Mansour D, Abass EM, Mutasim M, Mahamoud AE, and Harith AE.	Use of a Newly Developed $\beta$ -Mercaptoethanol Enzyme-Linked Immunosorbent Assay to Diagnose Visceral Leishmaniasis in Patients in Eastern Sudan.	Clin Vacc Immunol 14(12): 1592-1595. Doi: 10.1128/CVI.00313-07. 2007.
24	Abass EM, Mansour D, Harith AE.	Demonstration of agglutinating anti-Leishmania donovani antibodies in lymph node aspirate for	J Med Microbiol 56(Pt 9): 1256-1258. Doi: 10.1099/jmm.0.47267-0. 2007.



		confirmation of kala-azar serodiagnosis.	
25	Mutasim ME, Mansour D, Abass EM, Hassan WM, Harith AE.	Evaluation of a glycerol-preserved antigen in the direct agglutination test for diagnosis of visceral leishmaniasis at rural level in eastern Sudan.	J Med Microbiol. 55(Pt 10). 1343-1347. Doi: 10.1099/jmm.0.46753-0. 2006.
26	Abass EM, Mansour D, Mutasim ME, Hussein M, Harith AE.	Beta mercaptoethanol modified ELISA for diagnosis of visceral leishmaniasis.	J Med Microbiol 55(Pt 9), 1193-1196. Doi: 10.1099/jmm.0.46643-0. 2006.
27	Harith AE, Mutasim ME, Mansour D, Mustafa EF, Harold Arvidson.	Use of glycerol as an alternative to freeze drying for long term preservation of antigen for direct agglutination.	Trop Med Intern Health 8(11): 1025 – 1029. Doi: 10.1046/j.1360-2276.2003.01129.x. 2003.

### Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date

### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Abuelquasim. M. Hassan, Namarig .S. Mohammed, Samah F. Mohammed, Wafaa. A. Mohammed, Wafaa M. Edriss, Amel A. Ahmed, E. Abass.	Serological Screening of Cytomegalovirus Infection among Sudanese Patients with Leukemia, Breast and Prostate Cancers at Radiation-Isotope Center in Khartoum.	18th International Conference on Breast Cancer. Daubai, UAE. December 26-27, 2016.
2	Abass E.	rKLO8, a New Recombinant Protein of Leishmania Donovani.	4 <sup>th</sup> Conference of Sudanese Society of Clinical Biology (SSCB). 4-6 December 2015. Khartoum- Sudan.
3	Abass E, Elhussain M.	Visceral leishmaniasis and HIV co-infection in patients referred to Biomedical Research Laboratory of Ahfad University during 2003-2007.	Annals of Medicine and Healthcare Research. Proceedings of the 2 <sup>nd</sup> International Online Medical Conference, 2009.



4	Elhussein D, Mahmoud A, Elsayed S, <b>Abass E.</b>	Gastrointestinal Parasite Infections among School Children in Displaced Areas. Annals of Medicine and Healthcare Research:	2 <sup>nd</sup> International Online Medical Conference <b>2009</b> .
5	<b>Abass E</b> , Ahmed AM, Yousif SM.	Rise in Antibiotic Resistance Seen in Urinary Isolates from Sudan.	1 <sup>st</sup> International Online Medical Conference, <b>2008</b> .
6	Ahmed AM, Yousif SM, <b>Abass E.</b>	Etiology and antibiotic resistance of uropathogens isolated from patients in Omdurman Teaching Hospital.	2 <sup>nd</sup> Scientific conference of Sudanese Association of Clinical Biologists in collaboration with the Arab Association of clinical Biology, 23-25 November <b>2007</b> , Khartoum, Sudan
7	Mansour D, <b>Abass E</b> , Mutasim M, Mahamoud AE, Harith AE.	Progress achieved in diagnosis of Visceral leishmaniasis using Direct Agglutination Test.	8 <sup>th</sup> Scientific Conference of the National Centre for Research, in collaboration with Federation of Arab Scientific Research Councils, 21-23 August <b>2007</b> , Khartoum, Sudan.
8	<b>Abass E</b> , Mansoor D, Harith AE.	Use of lymph node aspirate as a clinical specimen for specific detection of anti-Leishmania donovani antibodies: comparison with microscopy and serology.	8 <sup>th</sup> Scientific Conference of the National Centre for Research, in collaboration with Federation of Arab Scientific Research Councils, 21-23 August <b>2007</b> , Khartoum, Sudan.
9	<b>Abass E</b> , Harith AE, Mutasem M, Mansor D, Aziz HA.	Diagnosis of visceral Leishmaniasis using an analogue DAT antigen in an ELISA format.	Conference on Endemic and Infectious Diseases in Sudan, Khartoum-Sudan. <b>2003</b> .
10	Mutasem M, Mansor D, <b>Abass E</b> , Harith AE.	Improvement of Direct agglutination Test (DAT) antigen for diagnosis of Visceral Leishmaniasis.	Conference on Endemic and Infectious Diseases in Sudan, Khartoum-Sudan. <b>2003</b> .

### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
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1	Fathelrahman Hassan, <b>Elfadil Abass</b> , Waleed Albuali, Afnan Al Sultan, Faisal Al-Zahrani, Dalal, Bubshait.	Genetic polymorphism in ribosomal protein genes (RPL5 and RPL9) and their correlation with the risk of thrombosis in Saudi population. 2019. Funded by Deanship of Scientific Research. Application number 2019-014-CAMS.	2021
2	Abass, E.	Up-scaling of Direct Agglutination Test (DAT): Production and Distribution at the Local Level.	2008.
3	Mansour D, Abass E.	Evaluation of $\beta$ -Mercaptoethanol Enzyme-Linked Immunosorbent Assay to Diagnose Visceral Leishmaniasis in Eastern Sudan.	2006.

### Current Researches

#	Research Title	Name of Investigator(s)
1	Surgical site infection following cesarean section in King Fahad Hospital of the University: Risk factors and Microbiological profile.	Aisha AlAmri, <b>Elfadil Abass</b> , Amani Alnimr.
	Clinical Characteristics and Laboratory Finding in Covid-19 Patients: A Retrospective Cohort Study in King Fahad Hospital of the University	Shorooq Barnawi, <b>Elfadil Abass</b> , Afnan Alsultan, Sara Alwarthan.
	Prevalence and Associated Risk Factors of Intestinal Parasite Infections: a 5-years Retrospective Study in Dammam, Eastern Province, Saudi Arabia	Walaa Al-Qahtani, <b>Elfadil Abass</b>
	Detection of asymptomatic Leishmania donovani infection among migrant workers in eastern region, Saudi Arabia.	<b>Elfadil Abass</b> , Lamyia Yamani, Afnan Alsultan, Aisha Alamri, Sara Almousa, Mudathir Elbasheer, Hafiz Mohammed

### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution

### Membership of Scientific and Professional Societies and Organizations

- British Society for Parasitology
- International Society for Infectious Diseases
- American Society for Microbiology





## Teaching Activities

### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Basic Bacteriology	Sudan International University, Sudan.	16/8
2	Diagnostic Bacteriology	Sudan International University, Sudan.	16/8
3	Communicable and non-communicable diseases	Sudan International University, Sudan.	16
4	Immunology	Ahfad University for Women, Sudan.	16
5	Introduction to Microbiology	MLT 211	16
6	Immunology & serology	MLT 311	16
7	Clinical microbiology	MLT 314	16
8	Diagnostic Microbiology Rotation	MLT 421	8
9	Parasitology	MLT 322	16
10	Research Project	MLT 424	Thesis
11	Immunology	MLT 206B	40
12	Immunology	MLT 301B	40

### Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

Diagnostic Microbiology Rotation-421: Studies the clinical aspects of infectious diseases, including bacteriology, mycology, parasitology, and medical virology. The course includes specimen collection and handling, normal flora, and expected pathogens for various regions of the body. The course also examines the pathogenesis, clinical syndromes, epidemiology, treatment, and laboratory identification of each microorganism. Laboratory emphasizes the performance and interpretation of appropriate tests used to identify commonly encountered microorganisms in the clinical microbiology laboratory.

Clinical Microbiology-314: The course aims to introduce students to fundamentals of diagnostic microbiology. Emphasis will be placed on bacteriology techniques commonly



encountered in the clinical laboratory including staining methods, sterilization, aseptic techniques, bacterial growth, morphology identification, understanding normal flora from different body sites and the isolation and identification of bacterial pathogens and usage of common media.

Parasitology -322: The course aims to introduce to the students the parasites associated with infectious diseases and to the laboratory skills required for the diagnosis of parasitic infections from clinical specimens. The medical technologists have a major role in the diagnosis of parasitic infections.

## Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Communication Skills	ML 822	30
2	Microbiology & Parasitology	ML 833	36
3	Pathology and Molecular Basis of Disease	ML 821	4
4	Principles of Immunology	CLS 711	10
5	Advanced Immunology- I	CLS 712	10
6	Advanced Immunology- II	CLS 715	10
7	Molecular Immunology	CLS 716	10
8	Immunology of Infectious Diseases	CLS 713	10

## Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	Microbiology & Parasitology- ML 833: This course aims to enabling the student to gain proficiency in medical microbiology and parasitology. The student should also gain proficiency in the management of medical microbiology and parasitology laboratories. By the end of the course the candidate should be able to know in detail the microbiological and parasitological investigation procedures and undertakes efficient organization and function of microbiology and parasitology laboratories and to gain familiarity with the epidemiology, control, prevention and other special problems with respect to endemic parasitic diseases in Saudi Arabia through understanding the life cycle of common parasites in the Kingdom.
2	

## Course Coordination



#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To

### Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date

### Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To

### Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1				
2				

### Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
1	MSc	Assessment of antibody response to Covid-19 vaccine and CCR5 delta mutation in previously infected Saudi population	College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University	2022
2	MSc	Premarital Screening and Serological Status of Hepatitis B, Measles, Mumps and Rubella in Jizan, Saudi Arabia	College of Applied Medical Sciences, Imam Abdulrahman Bin Faisal University	2022

### Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

#### Administrative Responsibilities



#	From	To	Position	Organization

### Committee Membership

#	From	To	Position	Organization
	2022	date	Member	Department Advisory Committee

### Scientific Consultations

#	From	To	Institute	Full-time or Part-time

### Volunteer Work

#	From	To	Type of Volunteer	Organization

### Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	
2	

### Last Update

...7/9/2022