

Curriculum Vita

Badereddin Bashir Annajar, MSc., PhD.

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Name: Badereddin Bashir Annajar
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Qualifications

- **PhD** in Epidemiology of Parasitic and Vector Borne Diseases, School of Life Sciences, Keele University, UK. **(July 2000).**
Thesis title: Epidemiology of Cutaneous Leishmaniasis in Libya. Copy can be seen at: https://www.researchgate.net/publication/259181507_Annajar-PhD-thesis-LQ
- **MSc** (by course) in Applied Medical Parasitology and Entomology, Liverpool School of Tropical Medicine, Liverpool University, UK. **(December 1991).**
- Hon. BSc in Zoology, Faculty of Science, Tripoli University, Tripoli, Libya. **(July 1984)**

Current appointment

- **Professor of Medical Parasitology** at the Public Health Department, Faculty of Medical Technology, University of Tripoli, Tripoli, Libya.

Other posts

- Advisor of the School of Medical sciences, Libyan Academy, Libya.
- Director of Postgraduate Studies Office, Faculty of Medical Technology, University of Tripoli, Tripoli, Libya.

- Member of the Committee of Research & consultations of the Faculty of Medical Technology, University of Tripoli, Tripoli, Libya.
- Chairman of the editorial board of the Libyan Journal of Medical Sciences <https://www.ljmsonline.com/> (Peer-reviewed Journal issued by NCDC & Published by Wolters Kluwer - Medknow).
- Member of the National Committee for Biosafety and Bioethics, Libya.
- Member of the Strategic Technical Advisory Group (STAG) at EMRO/World Health Organization on leishmaniasis, Cairo.
- National focal point for WHO on leishmaniasis and Integrated Vector Management (IVM).

Previous major posts & activities

- Director General of the National Centre for Disease Control (NCDC), Libya (2011 – 2021).
- National Primary IHR/WHO Responsible Person in Libya (2011 – 2021).
- Member of the National Supreme Committee to Combat Covid-19, Libya (2020-2021).
- Member of the National Scientific Advisory Committee to Combat Covid-19, Libya (2020-2021).
- Editor in chief of the Health & Public Magazine issued by NCDC (2012-2021).
- Manager and founder of the National Control Programme of Leishmaniasis (NCPL) (2006 – 2021).
- Member of the Roster of Experts of the International Health Regulations (IHR-2005) Committee of the World Health Organization, Geneva (2014-2019).
- Active member of the Programme Subcommittee of the Regional Committee for the WHO Regional Office for the Eastern Mediterranean, Cairo, Egypt (2015-2019).
- Chairman of the National Advisory Committee for Tackling Emerging Infectious Diseases & Pandemics, Ministry of Health, Libya (2013-2019).
- Head of Public Health Department, Faculty of Medical Technology, Tripoli University, Tripoli, Libya (2007 – 2012).
- Head of Biomedical Division at the Libyan Academy of Postgraduate Studies, Tripoli (2007 – 2008).
- Director and founder of the Administration of Zoonotic Diseases Control, NCDC (2006 – 2011).
- Lecturer of health and disease at Manchester City College, UK (2002 – 2004).
- Senior Medical Researcher at the National Centre for Medical Research, Libya (2004 – 2006).

- Medical Researcher at Public Health Laboratories, Technology Research Centre, Tripoli (1989 – 1992).
- Chairman of the Scientific & Organising Committees of the 2nd Infectious & Endemic Diseases Scientific Conference organised by NCDC, Tripoli, Libya, 2009.
- Head of Scientific Affairs Office, Libyan Society for Culture & Sciences (2008 – 2011).
- Member of the British Society of Parasitology (mem. No. 3451S).
- Member of the Supreme Committee for the National Conference of the health systems of the Ministry of Health.
- Chairman and founder of the Infectious Diseases Libyan Society (2019-2022).

Practical Experience

- Immanent national expert and advisor for public health issues.
- Regional and national expert on leishmaniasis epidemiology and control.
- Involved intensely in the planning and implementation of numerous prevention and control programmes related to zoonotic and infectious diseases.
- The founder and supervisor of the public health laboratories for infectious and zoonotic diseases in the NCDC.
- Expertise in organising and carrying out field visits and investigations for the purpose of research and epidemiological studies.
- Responsible for strengthening the national surveillance, investigation and response systems to the capacity that fulfil IHR and Global Health Security requirements and agenda.
- Invested hugely in exploring the best ways to revive and strengthen the PHC level to meet priority health needs through people-centred integrated care (including services for HIV, TB, ZDs, NCDs, MH, and MCH) as a major step towards achieving UHC.
- Experience in public health administration, multisectorial coordination and in the management of health crises and emergency situations.
- Involved profoundly in working with NGOs and international organizations forming several partnerships and joint work programmes.
- Involved in the process of reforming and strengthening the national health system
- Founder of the FM Radio Station for Public Health (the first dedicated Health Channel), Libya.
- Experience in organising and coordinating scientific conferences and workshops and interested in conducting scientific medical research.

Academic Experience

Teaching activities

- Teaching courses for undergraduate medical students e.g. (Medical Parasitology, Control of Public Health pests, Research Methods & data analysis, Epidemiology, Environmental Health, General Zoology), and for postgraduate medical and biomedical students e.g. (Advanced Medical Parasitology, Vector Borne Diseases, and Advanced Laboratory Techniques.
- I also taught courses like Immunology, Infectious Diseases, and Life Style & Health for students of Access to HE Diploma during my work at Manchester City College, UK.
- Acted as external examiner in several occasions for various universities and medical schools.
- Supervised several PhD and MSc projects: 1 PhD and 15 MSc projects have so far been completed successfully.
- Contributed significantly in reviewing and developing the new curriculum (meets international quality requirements) for the Public Health Department at Tripoli University.

Research interests

- Focusing mainly on conducting epidemiological investigations and surveys on parasitic & vector borne diseases with special interest in examining different biological & ecological aspects and factors affecting the transmission and spread of these diseases.
- Working on developing proper preventive measures and rational control methods to be implemented efficiently to reduce populations of vectors and reservoirs of parasitic and vector borne diseases in general with special interest in leishmaniasis.
- Improving laboratory diagnostic techniques using molecular approaches to detect parasites and vectors of diseases.

Main International Conferences & meetings attended

- Reunification of national institutes: Expert Working Group, UNDP/National Planning Council, Tunis, Tunisia, 16 – 17 Dec 2022 (attended as a national health expert)
- High-level meeting on institutional capacity for the use of evidence in health policy-making, Beirut, Lebanon, on 17–19 February 2019
- Cross-Regional Knowledge Exchange Workshop for Promotion of Migrant Health “Leaving No-one Behind” 25-27 June 2019; Bangkok, Thailand.

- 30th meeting of the Programme Budget and Administration Committee (PBAC30), 72nd World Health Assembly (WHA72) and Executive Board at its 145th session (EB145), Geneva 15–17 May 2019.
- Project Mobilization and Planning Meeting to Strengthening Health Security Systems in Libya, organized by Health Security Partners, USA, Feb 24 –26, 2019, Tunis, Tunisia.
- 5th meeting of the Programme Subcommittee of the Regional Committee for the EMR WHO/Cairo, Egypt, 20-21 February 2019
- GHD/ EMPHNET/ UNICEF meeting to review public health situation in Libya and to develop a joint implementation plan for surveillance, investigation and rapid response, Amman, Jordan, 19-20 October 2019.
- Post-Campaign Review and 2019 EPI/Polio Annual Planning Meeting, Tunis, Tunisia 06-09 February 2019.
- 29th meeting of the Programme Budget and Administration Committee (PBAC29), 72nd World Health Assembly (WHA72) and Executive Board at its 144th session (EB144), Geneva 21/1 – 1/2/2019.
- United Nations General Assembly high-level meetings on the fight against tuberculosis and on the prevention and control of non-communicable diseases, New York, USA, 26-27 September 2018 (State Representative).
- Two days' Meeting to Develop National Strategy for Community Health Volunteers in Libya to improve access to basic healthcare services, 7-8 September 2018, Tunis, Tunisia.
- 7th Regional stakeholders meeting to review the implementation of the International Health Regulations (2005) Kuwait City, Kuwait, 18-20 December, 2018.
- Violence Against Children (VAC) workshop. Study validation and CD4 strategy. Tunisia, 11 – 12 Dec. 2017.
- 6th Stakeholders meeting to review the implementation of the IHR, Amman, 5-7 Dec. 2017.
- Regional contributions and synergies for Global Health Security. MedPIET Annual Scientific Conference, Brussels, 27 Nov. – 1 Dec. 2017.
- WHO Executive Board special sessions on the draft 13th general programme of work, Geneva, 22-23 Nov. 2017 (Participated as an advisor to the minister of health and also as a Focal Point for the delegation of Libya).
- First WHO Global Ministerial Conference on: Ending – TB in Sustainable Development Era. A multisectorial response. Moscow, 16-17 Nov. 2017 (Participated as an advisor to the minister of health for the delegation of Libya).
- 26th Regional Committee Meeting for EMRO, Islamabad, 9-12 Oct. 2017 (Participated as an advisor to the minister of health and also as a Focal Point for the delegation of Libya).

- Vaccine Procurement Practitioners Exchange Forum, UNICEF Supply Division, Copenhagen, 2-4 Oct. 2017.
- Strengthening immunization supply chain management in Libya. Workshop on Effective Vaccine Management (EVM), UNICEF, Tunisia, 6-9 Aug. 2017.
- EXECUTIVE BOARD MEETING, 141st session, World Health Organisation (WHO), Geneva, 1 - 2 June 2017 (Participated as an advisor to the minister of health and also as a Focal Point for the delegation of Libya).
- 70th session of the World Health Assembly (WHA), Geneva during 22 – 31 May 2017 (Participated as an advisor to the minister of health and also as a Focal Point for the delegation of Libya).
- EXECUTIVE BOARD MEETING, 140th session, World Health Organisation (WHO), Geneva, 23 January–1 February 2017 (as an advisor to the Minister of Health in the ministerial delegation).
- Concluding Health Sector Coordination meeting on health activities in Libya, organised by WHO, Tunis, 5 December 2016 (Representing MoH).
- 9th Global Conference on Health Promotion, Organised by WHO jointly with the People's Republic of China, Shanghai on 21-24 November 2016. (as an advisor to the Minister of Health in the ministerial delegation)
- Workshop on National Cancer Registry System Assessment in Libya organised by WHO/EMRO/ IARC, Tunis, Tunisia 16 -17 November 2016.
- 3rd Qatar Internal Medicine Conference, organised by Hamad General Hospital, HMC jointly with Weill Cornell Medical College, 6 - 8 October 2016, Doha, Qatar.
- 63^{ed} meeting of the Regional Committee of the World Health Organization for the Eastern Mediterranean in Cairo, Egypt, from 3 to 6 October, 2016 (as an advisor to the Minister of Health in the ministerial delegation).
- 5th Regional Stakeholders Meeting to Review the Implementation of the IHR (2005), Cairo, 20 – 22 September 2016.
- Workshop and training programme on building capacities for the control of zoonotic diseases with special focus on cutaneous leishmaniasis, WHO-WR and Tunis Pasteur Institute, Tunisia, 15-25 August 2016.
- Biorisk management Trainer Development Programme (BRM-TDP) for Libyan trainers. Hosted by Sandia National Laboratories (USA) and sponsored by IBCTR, US State Department (Biosafety Engagement Programme), Kuala Lumpur, Malaysia, 24-28 July 2016.
- Consultative meeting on strengthening and supporting the health system in Libya in view of the crisis situation between EMRO regional advisors including RD and the ministerial delegation, Cairo, 24 – 27 August 2016. (participated as an advisor)
- Workshop on outbreak management, response and waste management: Addressing priorities for health security systems strengthening in Libya. Hosted by Georgetown

University and sponsored by CRDF Global (US - State Department), Kuala Lumpur, Malaysia 17-21 July 2016.

- Workshop on health system strengthening in Libya, EMRO - WR-Libya, Tunis, Tunisia, 22-24 June 2016.
- Workshop on reviewing SIA Polio/Switch implementation and planning for SIA measles in Libya, EMRO - WR-Libya, Tunis, Tunisia, 23-25 May 2016.
- Planning for assessment of health facilities in Libya (Service availability and readiness assessment- SARA2), EMRO - WR-Libya, Tunis, Tunisia, 20 -22 May 2016.
- Consultation on developing national health strategy for emergency preparedness and response in Libya, EMRO - WR-Libya, Tunis, Tunisia, 16-18 March 2016.
- Desk review and Information sharing meeting on HIV in Libya. EMRO - WR-Libya, Tunis, Tunisia, 10-12 March 2016.
- Workshop on EPI, NIDs and implementation of switch plan for Polio in Libya. EMRO - WR-Libya, Tunis, Tunisia, 7-9 March 2016.
- Workshop on Mental Health planning and response in Libya, EMRO - WR-Libya, Tunis, Tunisia, 28 – 30 December 2015.
- Technical meeting on the strengthening of surveillance and investigation programmes in Libya. EMRO - WR-Libya, Tunis, Tunisia, 16 November 2015.
- Joint programme review mission (JPRM) meeting, WHO, WR-Libya, Tunis, Tunisia, 2nd September 2015.
- Strategic planning support group work for IHR implementation, at WHO-EMRO in Cairo, EGYPT, 16-17 August 2015 (at the capacity of T. Advisor).
- Meeting on Sustainable Alternatives to DDT and Strengthening of National Vector Control Capabilities in EMR, Tehran, Iran, 9 - 11 June 2015.
- Global Health Security meeting with Libya's IHR Technical Committee, Istanbul, Turkey, 8 - 9 May 2015.
- 2nd Health Authorities Meeting on Humanitarian crisis in Libya, WHO-UNICEF, Istanbul, Turkey, 6 May 2015.
- Libya Provincial AFP Surveillance Officers Training, Istanbul, Turkey, 3-5 March 2015 & 1 Day Meeting with POL/EMRO, 6 March 2015.
- 3rd Regional Stakeholders Meeting to Review the Implementation of the International Health Regulations (IHR) – 2005 with Focus on Ebola (2nd round), WHO, WR-Libya, Tunis, Tunisia, 4-5 February 2015 (PT Chairperson).
- Workshop on the Implementation of the Consolidated Ebola Viral Disease Preparedness Checklist in Libya, WHO, WR-Libya, Zarzis – Tunisia, 8-10 December 2014.

- Meeting of the Technical Committee of the Maghreb Network for the epidemiological surveillance - Maghreb Ministerial Council for Health - Tripoli, Libya - in the period from April 19 to 21, 2014 (Chairman of the meeting).
- Meeting of the Technical Committee of the International Health Regulations and Emergency - Maghreb Ministerial Council for Health - Tripoli, Libya - in the period from April 9 to 10, 2014 (Chairman of the meeting).
- 12th session of the Maghreb Ministerial Council for Health - Tripoli, Libya - in the period from January 14 to 16, 2014 (participated as the Chairman of the expert's session and head of the delegation of experts of the Libyan side).
- 60th meeting of the Regional Committee of the World Health Organization for the Eastern Mediterranean in Muscat, Oman, from 27 to October 30, 2013 (participated as the chairman of the technical sessions of the meeting and as an advisor to the Minister of Health in the ministerial delegation).
- International Istanbul Initiative on Ageing from October 4 to 6, 2013 in Istanbul, Turkey (Advisor to the President of the National Congress of Libya).
- Meeting of the States Parties to the Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons and on Their Destruction - the United Nations headquarters in Geneva - Switzerland in the period between August 11 to 16, 2013 (representative of Libya on behalf of the National Committee for Biosafety and Bioethics).
- 31st Annual Meeting of the European Society for Paediatric Infectious Diseases May 28-June 1, 2013 in Milan, Italy.
- 66th session of the World Health Assembly (WHA), Geneva during 20 – 28 May 2013 (as an advisor to the Minister of Health in the ministerial delegation).
- 39th session of the Council of Arab health ministers in Cairo from 13 to 14 March 2013 (as an advisor to the Minister of Health in the ministerial delegation).
- AIDS Scientific Workshop in Partnership with MSD on HIV/AIDS drug management, from 21 to February 22, 2013 - Istanbul - Turkey.
- 11th session of the Maghreb Ministerial Council for Health – Rabat, Morocco - in the period from January 14 to 16, 2013 (as an advisor to the Minister of Health in the ministerial delegation).
- 59th meeting of the Regional Committee of the World Health Organization for the Eastern Mediterranean in Cairo, Egypt, from 1 to 4 October, 2012 (as an advisor to the Minister of Health in the ministerial delegation).
- 30th Annual Meeting of the European Society for Paediatric Infectious Diseases 8 - 12 May 2012 in Thessaloniki, Greece.
- National Conference on Health Systems 26 to 30 August 2012, Tripoli – Libya.

- International Conference on Healthy Lifestyles and Non-communicable Diseases in the Arab World and the Middle East in 2012, from September 10 to 12, 2012, Riyadh, Saudi Arabia (as an advisor to the Minister of Health in the ministerial delegation).
- Conference on the role of money, sustainability and accountability in the health sector for African Ministers of Health from 4 May 2012, Tunisia (as an advisor to the Minister of Health in the ministerial delegation).
- 65th session of the World Health Assembly, World Health Organisation, 21–26 May 2012, Geneva, Switzerland (as an advisor to the Minister of Health in the ministerial delegation).
- Consultation Conference on the set up of a Mediterranean Programme for Intervention Epidemiology Training "Mediterranean EPIET" With support of the ECDC, 2-4 April 2012, Veyrier du Lac, France.
- 16th World Congress on AIDS and Sexually Transmitted Diseases in Africa ICASA-2011 in Addis Ababa, Ethiopia, in the period between December 4 to 8, 2011.
- Review Meeting of Programme Managers on CL Control in the Eastern Mediterranean Region, 1 – 2 May 2012 EMRO, Cairo, Egypt.
- Meeting of the Strategic Technical Advisory Group (STAG) on the final draft of the Strategic Plan and Guidelines for Case Management of CL in the Eastern Mediterranean Region, 30 April 2012 EMRO, Cairo, Egypt.
- WHO Programme Managers Technical Meeting on Leishmaniasis in Pasteur Institute, 1-6 February 2010, Tunis, Tunisia.
- WHO Programme Managers Meeting on Leishmaniasis Control, 27-29 October 2009, Sharm El Sheikh, Egypt.
- ISC International Conference on Emerging Zoonotic Diseases, Organised by: International Society of Chemotherapy: Infection & Cancer, 15 – 17 October 2009, Cairo, Egypt.
- "*Leishmania*: Collaborative Research Opportunities in North Africa and the Middle East" Organised by: the National Institute of Allergy and Infectious Diseases (USA), June 23-25 2009, Tunis, Tunisia.
- 27th Annual Meeting of the European Society for Paediatric Infectious Diseases, June 9-13, 2009, Brussels, Belgium.
- 2nd Scientific Conference of Infectious & Endemic Diseases, Organised by the National Centre for Infectious Diseases Prevention & Control, 15 - 18 May 2009, Tripoli, LIBYA.
- WHO 1st Intercountry Meeting of National Vector Control Focal Points, 4-6 November 2008, Amman, JORDAN.
- WHO Meeting on Control Strategies of Leishmaniasis in the Eastern Mediterranean Region EMR, 27-30 OCTOBER 2008, Aleppo, SYRIA.

- 1st Scientific Conference of Infectious & Endemic Diseases, Organised by the National Centre for Infectious Diseases Prevention & Control, 4 - 7 May 2007, Tripoli, LIBYA.
- WHO Consultative Meeting on Cutaneous Leishmaniasis for managers of NCPL, World Health Organisation, April 2007, Geneva - Switzerland.
- Workshop on the strategy of using modern information technology in the field of infectious diseases surveillance, Health Protection Agency (HPA) of the UK, 8 – 10 January 2007, Tripoli, LIBYA

Main training courses attended

- International Course on: Health Systems Strengthening for UHC, provided by Harvard Medical School jointly with WHO, Dubai, UAE, 9-12 Nov. 2017.
- Vaccine Procurement Practitioners Exchange Forum, UNICEF Supply Division, Copenhagen, 2-4 Oct. 2017.
- Strengthening immunization supply chain management in Libya. Workshop on Effective Vaccine Management (EVM), UNICEF, Tunisia, 6-9 Aug. 2017.
- Workshop and training programme on building capacities for the control of zoonotic diseases with special focus on cutaneous leishmaniasis, WHO-WR and Tunis Pasteur Institute, Tunisia, 15-25 August 2016.
- Bio-risk management Trainer Development Programme (BRM-TDP) for Libyan trainers. Hosted by Sandia National Laboratories (USA) and sponsored by IBCTR, US State Department (Biosafety Engagement Programme), Kuala Lumpur, Malaysia, 24-28 July 2016.
- Workshop on outbreak management, response and waste management: Addressing priorities for health security systems strengthening in Libya. Hosted by Georgetown University and sponsored by CRDF Global (US - State Department), Kuala Lumpur, Malaysia 17-21 July 2016.
- Workshop on health system strengthening in Libya, EMRO - WR-Libya, Tunis, Tunisia, 22-24 June 2016.
- Workshop on the strategy of using modern information technology in the field of infectious diseases surveillance, Health Protection Agency (HPA) of the UK, 8 – 10 January 2007, Tripoli, LIBYA

Recent publications

- **Noureddin M Rashid, Saleh A Ammar, Ahmad Almabruk , Mostafa MO Abdoarrahem, Abdulla Bashein, Taher Shaibi and Badereddin B Annajar** (2022). Genetic Identification of *Meriones spp.* The Reservoir Host of Cutaneous Leishmaniasis in the North Western Region of Libya, *JOPAS*, **21** (4) pp. 310 - 313

- **Abdelhamid MHM, Almsellati IA, Annajar BB, Abdulhamid A.H, Alemam H, Etikar M** (2022). Hospitalization among vaccines for SARS-CoV-2 breakthrough infection after dose sparing strategies in Libya: A cohort study. *PLoS ONE* **17**(11): e0276425. <https://doi.org/10.1371/journal>.
- **Walid K Saadawi, Faraj Dhu Abozaid, Muteia Almukhtar¹, Badereddin B. Annajar & Taher Shaibi** (2022). Seroprevalence study of Toscana virus in Yafran area, Libya. *J Vector Borne Dis*, **59**, pp. 186–189.
- **Fillo, S.; Giordani, F.; Monte, A.; Faggioni, G.; De Santis, R.; D'Amore, N.; Palomba, S.; Hamdani, T.; Taloa, K.; Jumaa, A.B.; Bitrou, S.; Alaruusi, S.; Madi, W.; Zorgani, A.; Elahmer, O.; Annajr, B.; Bashein, A.; and Lista, F.** (2021) Genomic Characterization and Phylogenetic Analysis of SARS-CoV-2 in Libya. *Microbiol. Res.* 2021, **12**, 138–149. <https://doi.org/10.3390/microbiol> res 12010010
- **Ben Ashur A, Abdulwahed E, Magrahi H, Elyounsi N, Annajar B.** (2021). Assessment of Biosafety and Biosecurity Aspects in Diagnostic Clinical Laboratories in Tripoli, Libya. *Alq. J. Med. App. Sci*, **1**(1):64-69.
- **Mahanay FJ, Bashein AM, El-Buni AA, Sheebah A, Annajar BB.** (2021). Malaria in illegal immigrants in Southern Libya. *Libyan J Med Sci*, **5**:158-61.
- **Mohamed Hadi Mohamed Abdelhamid, Iman A. Almsellati, Badereddin B Annajar, Alaa Abdelhamid, Hafsa .A Alemam, Mohammed Etikar.** (2021). SARS-CoV-2 vaccines breakthrough infection hospitalizations after one dose in Libya: cohort study, *medRxiv* preprint doi: <https://doi.org/10.1101/2021.09.26.21263691>; this version posted 26.9.2021.
- **Mahmoud AS, Dayhum AS, Rayes AA, Annajar BB, Eldaghayes IM.** (2021). Exploiting epidemiological data to understand the epidemiology and factors that influence COVID-19 pandemic in Libya. *World J Virol*; **10** (4): 156-167.
- **Sharfuldeen, S., Annajar, B., Al-Dwibe, H., Zubi, S. E., & Benjama, A.** (2021). Histopathological Aspects of Cutaneous Leishmaniasis due to Leishmania-Major in Libya. *International Journal of TROPICAL DISEASE & Health*, **42**(12), 30-39. <https://doi.org/10.9734/ijtdh/2021/v42i1230501>.
- **Rayes AA, Annajar BB, Dayhum AS, Eldaghayes IM** (2020). Why there were few cases of coronavirus disease 2019 in Libya during the first two months of the pandemic? *Int. J. One Health*, **6**(2): 160-164.
- **Hanan A Aqeelhal, Hanan M Abuabaid, Walid K Saadawi, Badereddin B Annajar.** (2019). Molecular characterization of mosquito in eastern Tripoli, Libya for species *Culex pipiens*, molestus and hybrids. *Int J Mosq Res*; **6**(6):26-30.
- **Hanan A Aqeelhal, Naema Shibani, Badereddin B Annajar.** (2019). Mosquito species composition at a selected area in eastern Tripoli, Libya. *International Journal of Entomology Research*, **Volume 4**: Issue 6, Pages 122-125.

- **Wleed Khalif Ali, Hend Shubar, Asma Ramadan, Walid K. Saadawi, Badereddin Annajar, Sumaia R. Alkhanfas, Basma Doro.** (2019). Screening of *Toxoplasma gondii* antibodies and Risk factors among Patients in Asabieh City, Libya, *Journal of Medical Biomedical and Applied Sciences*, **Vol. 7**: 6, 255–259 .
- **Jomaa Chemkhi, Souheila Guerbouj, Walid Saadawi, Taher Shaibi, Sara Faris, Wissem Ghawar, Aicha Boukthir, Ikram Guizani, Badreddin Bashir Annajar, Afif Ben Salah,** (2019). Presence of *Sergentomyia (Parrotomyia) lewisi* (Diptera: Psychodidae) in Tunisia, *Journal of Medical Entomology*, **Volume 56**, Issue 2, Pages 560–564, <https://doi.org/10.1093/jme/tjy192>
- **Ben Ashur A, Abdulwahed E, Magrahi H, Elyounsi N, Annajar B.** (2017). Assessment of Biosafety and Biosecurity Aspects in Diagnostic Clinical Laboratories in Tripoli, Libya. *Alq. J. Med. App. Sci.* **1(1)**: 64-69.
- **Walid K. Saadawi, Taher Shaibi, Badereddin B. Annajar.** (2017). A human case of urogenital myiasis caused by *Psychoda* sp. larvae in Tripoli, Libya, *Annals of Parasitology*, **63(1)**, 69–71, doi: 10.17420/ap6301.88
- **Taher Shaibi, Walid K. Saadawi, H. Aghila & Badereddin B. Annajar** (2017). Prevalence of IgG antibodies for the West Nile virus in human population in Tripoli, Libya. *J Vector Borne Dis*, 54, June, pp. 183–186.
- **Mostafa Ramahdan Dokhan, Mohamed Amin Kenawy, Taher Shaibi, Badereddin Bashir Annajar** (2017). Field Evaluation of Outdoor Ultra-low Volume (ULV) Applications against Phlebotomine Sand Flies (Diptera: Psychodidae) in Al Rabta, North-West of Libya. *J Arthropod-Borne Dis*, September, 11(3): 393–402.
- **Mohamed M. Ibrahim, Wafa M. Ibrahim, Kawther M. Ibrahim, Badereddin B. Annajar** (2017). Incidence and the history of *Echinococcus granulosus* infection in dogs within the past few decades in Libya: A review. *Journal of Veterinary Medicine and Animal Health*, **Vol. 9** (1), pp. 1-10, DOI: 10.5897/JVMah2016.0525.
- **Mohamed M. Ibrahim, Badereddin B. Annajar and Wafa M. Ibrahim** (2016). Incidence of Cystic Echinococcosis in Libya: I. Seroprevalence of Hydatid Disease in Sheep and Goats Naturally Exposed to the Infection in the North Midland Region., *American Journal of Animal and Veterinary Sciences*, 11 (3): 125.135.
- **Samy A. M., Annajar B. B., Dokhan M.R., Boussaa S., Peterson A. T.** (2016). Coarse-resolution Ecology of Etiological Agent, Vector, and Reservoirs of Zoonotic Cutaneous Leishmaniasis in Libya. *PLoS Negl Trop Dis* 10(2): e0004381. doi: 10.1371/journal.pntd.0004381
- **Elammari N. E., Elhadar J. M., Annajar B. B.** (2015). Trends in Zoonotic Cutaneous Leishmaniasis (ZCL) in Eight Endemic Municipalities of North-West Libya During 2004 – 2008. *Global Journal of Biology, Agriculture & Health Sciences* 4 (4):1-6

- **Dokhan, M. R., Kenawy, M. A., Doha, S. A., El-Hosary, S. S., Shaibi, T., Annajar, B. B.** (2015). Entomological studies of phlebotomine sand flies (Diptera: Psychodidae) in relation to cutaneous leishmaniasis transmission in Al Rabta, North West of Libya. *Acta Tropica*, <http://dx.doi.org/10.1016/j.actatropica.2015.11.004>
- **Elhosk, M.A., Shaibi, T., Annajar, B.B., Scalini, A., Maroli, M.** (2014), A preliminary investigation on *Phlebotomus longicuspis* Nitzulescu, 1930 (Diptera: Psychodidae), the suspected vector of visceral leishmaniasis in the northeastern region of Libya, *International Journal of Advanced Research* Vol. 2 (8) 411-417.
- **Annajar, B.; El Saadi, K.; Alhadi, B.** (2013) Zawiya, the building back of an age friendly city in Libya, *2nd International Conference on Age-Friendly Cities*, Quebec, Canada, 9-11 /9/ 2013
- **Al-Mambruk A. A., Alkhunfas S. R., El-Buni A. A., Annajar B. B. and Elsaid M. M.** (2013). Seroprevalence of *Toxoplasma gondii* antibodies in sheep from Libya, *International Journal of Advanced Research*, **Vol.1 (9)**: 148-154.
- **Amro A, Gashout A, Al-Dwibe H, Zahangir Alam M, Annajar B, et al.** (2012) First Molecular Epidemiological Study of Cutaneous Leishmaniasis in Libya. *PLoS Negl Trop Dis* 6(6): e1700. doi:10.1371/journal.pntd.0001700
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