

Curriculum Vitae

Personal data:

- **Name:** Dina Moustafa Abou Rayia Katry
- **Date and place of birth:** May 25, 1980, Tanta, Egypt
- **Nationality:** Egyptian
- **Social status:** Married
- **Address:** Alexandria Street, above Alf Lila Lobby, 4th floor, Tanta, Egypt.\
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Qualifications:

- **M.B.B.Ch:** Faculty of Medicine, Tanta University, Egypt, 2003 with general degree excellent with honor
- **Master's degree in Medical Parasitology:** Faculty of Medicine, Tanta University, Egypt with general degree excellent, 2008.
- **PhD degree in Medical Parasitology:** Faculty of Medicine, Tanta University, Egypt with general degree excellent, 2012.
- **Stem cells research diploma:** Cell Biology and Pathology Institute, Romania, 2012.

Positions:

- **2024:** Associate Professor Medical Microbiology and immunology, Faculty of Medicine. Mutah University, Jordan
- **2023:** Professor in in the Medical Parasitology Department, Faculty of Medicine, Tanta University, Egypt
- **2017-2023:** Associate Professor in the Medical Parasitology Department, Faculty of Medicine, Tanta University, Egypt
- **2012-2017:** Lecturer in the Medical Parasitology Department, Faculty of Medicine, Tanta University, Egypt
- **2008-2011:** Assistant Lecturer in the Medical Parasitology Department, Faculty of Medicine, Tanta University, Egypt

- **2005-2008:** Demonstrator in the Medical Parasitology Department, Faculty of Medicine, Tanta University, Egypt
- **2004-2005:** Rotating internship, Tanta University Hospital, Egypt

Language skills:

- **English:** TOEFL certificate with a score 93
- **French:** very good, graduated from a French school
- **Arabic:** mother language

Computer skills:

- ICDL certificate

Experiences:

Teaching skills:

- Microbiology and Parasitology lectures and practical lessons in the credit hours program, Faculty of Medicine, Mutah University, Jordan for one year
- Lectures and practical lessons teaching in the credit points program for first year Egyptian students, Faculty of Medicine, Tanta University
- Lectures and practical lessons teaching in the credit points program, second year, Egyptian students, Faculty of Medicine, Tanta University
- Lectures and practical lessons teaching in the credit points program, third year, Egyptian students, Faculty of Medicine, Tanta University
- Lectures and practical lessons teaching for third year Malaysian students, Faculty of Medicine, Tanta University. for 5 years
- Lectures for first year Egyptian student, Faculty of Nursing, Tanta University for 4 years
- Lectures and practical lessons teaching for post graduate students from different specialties (Medical Parasitology, Microbiology, Clinical Pathology, Public Health and Tropical Medicine)

Distant teaching skills:

- Working with the Francophonic agency as an on line tutor and lecturer for two modules (stem cells basics and stem cells advanced research techniques) in an on line master degree of immunology and regenerative medicine given in French language, using the program (Moodle), accredited from The Faculty of Pharmacy, Mansoura University, Egypt. Responsible for all the scientific materials, students follow up and evaluation with a direct on line communication with the students in specific hours weekly to answer their questions and giving them the feedback for their work.

Abroad Training:

- **Post-doctor** researcher, malaria and infection laboratory, institute Pasteur, Paris, France from October 2016 to July 2017
- **Fulbright Scholar**, Indiana University, Indiana, United States, training on recent and updates in university teaching techniques, July-August, 2016
- **Fulbright Scholar**, CUNY University, New York, United States, training on bioinformatics and population health informatics, September, 2016.
- **Post-doctor** researcher, stem cells epigenetic regulation unit, institute Pasteur, Paris, France from January 2013 to March 2013
- **Post-doctor** researcher, stem cell biology unit, Institute of Cell Biology and Pathology "Nicolae Simionescu", Bucharest, Romania from October 2012 to December 2012

Local training:

- Fellowship in Clinical Pathology Department, Mansoura University, Egypt, from October 2009 to October 2010
- Training in the Haematology and Biochemistry units, Clinical Pathology Department, Mansoura University, Egypt, from June 2007 to August 2007

Laboratory experiences:

- **2016-2017: Malaria and Infection Laboratory, Institute Pasteur, Paris, France** (Dendritic cell culture, flowcytometry, malaria life cycle maintenance of *Plasmodium berghei* and *Yoelii*)

- **2013: Epigenetic regulation unit, Institute Pasteur, France,** (Stem cell culture, immunofluorescence and western blotting)
- **2012: stem cell biology laboratory, Romania,** (Cell culture and molecular biology assays)
- **2009-2010: Medical Experimental Research Center, Faculty of Medicine, Mansoura University, Egypt,** (Mesenchymal stem cell separation from bone marrow of mice and their culture and injection in experimental mouse model of liver fibrosis)
- **2005 till now: Parasitology laboratory, Faculty of Medicine, Tanta University:** (different diagnostic techniques for parasitic diseases as stool analysis, urine analysis, complete blood picture, serological diagnosis, treatment prescription for referred cases from Tanta University Hospital and induction of parasitic life cycles in experimental animal models as *Schistosoma mansoni*, *Trichinella spiralis* and *Toxoplasma gondii* for research purposes)

Funded projects:

- A member in a funded project from Tanta University, Egypt, entitled "Stem cells as a replacement therapy to liver transplantation in patients with hepatic fibrosis". This project is from 2/2015-2/2017
- A member in a funded project from the Francophonic agency which is a master on line of immunology and regenerative medicine given in French language and accredited from the Faculty of Pharmacy, Mansoura University, from 2012 till 2023

Thesis supervision:

- Supervisor on a PhD entitled "An experimental study on the interaction of *Schistosoma mansoni* infection with diabetes mellitus and obesity in mice"
- Supervisor on a Master Degree in Medical Parasitology entitled "Current status of *Schistosoma mansoni* infection in Gharbia Governorate: parasitological and epidemiological study"

- Supervisor on a Master Degree in Medical Parasitology entitled " Parasitological evaluation of the therapeutic effect of moxidectin against *Sarcoptes* species infection in experimental animals"
- External Supervisor on a Master Degree in Immunology entitled " Prevalence of Parvovirus B19 among blood donors at the National Blood Transfusion Center in Kinshasa "
- External Supervisor on a Master Degree in Immunology entitled " Molecular Characterization of High Risk HPV subtypes in HIV-positive women in Cameroon"
- External Supervisor on a Master Degree in Immunology entitled "Evaluation of viral load in patients with HIV/AIDS in Djibouti"

Book authoring:

- Medical Parasitology book, Faculty of Medicine, Tanta University
- Questions and answers book in Medical Parasitology, Faculty of Medicine, Tanta University

Quality management activities:

- Coordinator in scientific research committee, Faculty of Medicine, Mutah University, Jordan
- Coordinator in the program of post graduate studies and research for Tropical and Public health master and Diploma degrees, Faculty of Medicine, Tanta University.
- Coordinator in the curriculum development and programs for undergraduate, Faculty of Medicine, Tanta University

Publications:

- **Abou Rayia DM**, Izzularab BM, Harras S, Ghafar MTA, Azzam AR, Harras H, Younis RL, Soliman S, Saad AE. Stem cell biotherapy: A new remedy for *Trichinella spiralis*-induced inflammatory myopathy. *Parasitol Int.* 2023 Oct;96:102773. doi: 10.1016/j.parint.2023.102773. Epub 2023 Jun 15. PMID: 37330041.
- Amer AS, Othman AA, Dawood LM, El-Nouby KA, Gobert GN, **Abou Rayia DM**. The interaction of *Schistosoma mansoni* infection with diabetes mellitus and obesity in mice. *Sci Rep.* 2023 Jun 9;13(1):9417. doi: 10.1038/s41598-023-36112-5. PMID: 37296126; PMCID: PMC10256771.

- Saad AE, Othman AA, Ghanem HB, Soliman S, Alshenawy HA, Ghafar MTA, **Rayia DMA**. Vitamin D3 supplementation could ameliorate the inflammatory and redox status in the muscular phase of trichinellosis. *Parasitol Int.* 2023 Jun; 94:102737. doi: 10.1016/j.parint.2023.102737. Epub 2023 Feb 1. PMID: 36736658.
- **Rayia, D. A.**, Othman, A., Harras, S., Helal, D., Dawood, L., & Soliman, S. (2022). Bevacizumab: A new take on therapy of muscle phase of *Trichinella spiralis* infection. *Acta tropica*, 230, 106409. <https://doi.org/10.1016/j.actatropica.2022.106409>
- **Abou Rayia, D. M.**, Ashour, D. S., Abo Safia, H. S., Abdel Ghafar, M. T., Amer, R. S., & Saad, A. E. (2022). Human umbilical cord blood mesenchymal stem cells as a potential therapy for schistosomal hepatic fibrosis: an experimental study. *Pathogens and global health*, 1–13. Advance online publication. <https://doi.org/10.1080/20477724.2022.2064795>
- Chabo Byaene, A., Kabututu, Z. P., **Abou Rayia, D. M.**, & El-Sokkary, M. (2020). The seroprevalence of parvovirus B19 antibody in blood donors at the National Blood Transfusion Center in Kinshasa. *Journal of medical virology*, 92(3), 288–294.
- Sharaf, M., Antonios, S., Mina, S., Eliwa, K., & **Rayia, D. A.** (2020): The scabicide effect of moxidectin in vitro and in experimental animals: Parasitological, histopathological and immunological evaluation. *Experimental parasitology*, 217, 107961.
- Ashour DS, **Abou Rayia DM**, Maher Ata M, Ashour AS, Abd Elnaby MM. (2018): Hybrid feature extraction techniques for microscopic hepatic fibrosis classification. *Microsc Res Tech.* 2018 Mar;81(3):338-347
- **Dina Abou Rayia**, Sirria Elmarhoumy, Howaida Ismail, Farha Elchennawy and Khaled Zalata (2017): The outcomes of bone marrow stromal cell therapy on schistosomal hepatic fibrosis: An experimental study, *Journal of Egyptian Society of Parasitology*, 47(3):633-642.
- **Dina Abou Rayia**, Abeer Ezzat, Dalia Ashour and Radwa Oreiby (2017): Implication of artemisinin nematocidal activity on experimental trichinellosis: In vitro and in vivo studies. *Parasitology International* (66): 56-63.
- Saad AE Dalia Ashour, **Dina Abou Rayia**, Abeer Ezzat and Reda El-Bakary (2016): Nitazoxanide anthelmintic activity against the enteral and parenteral phases of trichinellosis in experimentally infected rats. *Experimental Parasitology* (170): 28-35.
- Basma Elsharazly, **Dina Abou Rayia**, Sanaa Antonios and Samia Hanim Eissa (2016): Current status of *Schistosoma mansoni* infection and its snail host in three rural areas in Gharbia governorate, Egypt. *Tanta Medical Journal* (44): 141–150.
- Ashour DS, **Abou Rayia DM**, Bedeer AE. (2016): Carbonic anhydrase enzyme as a potential therapeutic target for experimental trichinellosis. *Parasitol. Research.* 115(6):2331-9.

- Ismail HI, Ashour DS, **Abou Rayia DM**, Ali AL. (2016): Ocular pathological changes in hamsters experimentally infected with *Schistosoma mansoni*. *J Helminthol.* 17:1-6.
- Othman AA, **Abou Rayia DM**, Ashour DS, Saied EM, Zineldeen DH, El-Ebiary AA. (2015): Atorvastatin and metformin administration modulates experimental *Trichinella spiralis* infection. *Parasitol Int.*, 65(2):105-112.
- Rosca AM, **Rayia DM**, Tutuianu R (2015): Emerging role of stem cells - derived exosomes as valuable tools for cardiovascular therapy. *Curr. Stem Cell Res. Ther.*
- **El-Marhoumy SM, El-Nouby KA, Emara MA, Abou Rayia DM. (2009):** An experimental study for evaluating the efficacy of cercarial vaccine against *Schistosoma mansoni*. *J. Egypt. Soc. Parasitol.*, 39(3):917-932.

Conferences and workshops:

- Updates on electronic curriculum development, Mutah university, Jordan 2023
- Quality management workshop on blended teaching, Mutah University, Jordan 2024
- The 36th Annual Congress of Faculty of Medicine, Tanta University “COVID-19 and its impact on public health” 26-28 May 2021.
- The 35th Annual Congress of Faculty of Medicine, Tanta University on Reality and Ambition in Advanced Medicine, March 2020.
- The 34rd Annual Congress of Faculty of Medicine, Tanta University on Best Medical Practice Customizing the International Standards II, March 2019.
- Participate in the histology annual conference, Faculty of Medicine , Tanta University by a lecture entitled “Flowcytometry and its applications in Medicine” March 2019.
- Participation in the international conference on clinical and pharmaceutical microbiology held on October 23-25, 2019 in Rome, Italy, by a research paper entitled "implications of artmesinin nematocidal activity against experimental trichinellosis: Invitro and invivo studies"
- Workshop on Electron Microscopy principles, techniques and interpretation, EM Unit, Faculty of Medicine, Tanta University, September 2018.
- The 5th International Conference on Parasitology and Microbiology, Paris, France, July, 2018.
- The 33rd Annual Congress of Faculty of Medicine, Tanta University on Best Medical Practice Customizing the International Standards II, March 2018.
- The 5th Conference of the Egyptian Parasitologists United Society on Parasitosis, A Multidisciplinary Approach, Ain Shams University, Cairo, March 2018.
- Multidisciplinary Medicine Era III. Tanta Faculty of Medicine. March, 2016.
- Workshop on recent advances in diagnosis of parasitic diseases. Tanta Faculty of medicine. March, 2016.

- 20th International Congress of the Egyptian Society of Tropical, Infectious and Parasitic diseases, Alexandria, January, 2015.
- Multidisciplinary Medicine Era III. Tanta Faculty of Medicine. May, 2015.
- Hand on workshop on applications of flow cytometry in research and diagnosis, Center of Excellence for Cancer Research, Tanta University Teaching Hospital, Egypt, (15th – 17th August, 2015).
- The 30th annual congress of the Faculty of Medicine, Tanta University on "Multidisciplinary Medicine Era II" Egypt, (5th – 8th May, 2015).
- Arab Health Congress, Med lab, Dubai, United Arab Of Emirates, (27th – 30th January, 2014)
- The 4th Egyptian Parasitologists United Conference, Parasitology: Challenges and Innovate Approaches Cairo, November 15-16, 2014.
- Work shop on Distant Higher Education Teaching, Singor University, Franco phonic Agency, Alexandria, November, 2013.
- Work shop on Laboratory Security, France, February, 2013.
- Advanced school for stem cells research, Bucharest, Romania, (5th – 14th November 2012).
- Poster Presentation in the 4th international congress on stem cells and tissue formation, center for regenerative medicine, Dresden, Germany (18th – 20th July 2012). Titled (The outcomes of stem cell therapy in schistosomal hepatic fibrosis. An experimental study)
- Hands on workshop on basic techniques needed in the use of laboratory animals in experimental medicine and research, medical technology center, Alexandria University, Egypt, (21st -23rd December 2010).
- The annual scientific symposium of clinical hematology unit, internal medicine department- Tanta faculty of medicine in collaboration with international stem cell union and Egyptian society of stem cell transplantation, Stem cell from bench to clinic (15th July, 2010)
- The annual conference of the Egyptian society of hematology (ESH) in collaboration with colors for research- isolation and proliferation of adult stem cell (17th-18th,May 2010)
- The 1st annual conference of medical experimental research center (MERC) stem cells and regenerative medicine (8th April 2010)
- The 13th Egyptian-French conference of immunology and molecular biology and the 1st Egyptian-German seminar of immunohaematology. Regenerative medicine and cord blood Mansoura Faculty of Medicine, Egypt, (4th -5th March, 2010)
- Hand on workshop on tissue culture techniques in Clinilab, Cairo, Egypt, (February 2010).
- Clinical immunology workshop, cytokine gene polymorphism (SSP)- Mansoura Faculty of Medicine, Egypt, (20th January 2010)

- The 12th Egyptian-French conference of regenerative medicine, Mansoura University for one week with attendance of the conference workshops on: HLA typing, Stem cell separation, Detection of total and specific IgE (2009).

Professional memberships:

- A member in the Egyptian Society of Parasitology.
- A member in the Egyptian Parasitologists United.

Community service:

- Participation in a survey study on the prevalence of snail hosts of *Schistosoma mansoni* in three rural areas in Gharbia Governorate, Egypt. In addition, detection of the infected children in the study area and health education through face to face interviews and children attractive-posters in the children's schools.

Awards:

- Best Department Award in the Faculty of Medicine, 2013.
- Best Department Award in the Faculty of Medicine, 2015.

References:

***Prof. Dr. Sirria El- Marhoumy**

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