

## C.V.

د. محمود "محمدسفيان" محمود سرداح



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**Place & Date of Birth :** Gaza , Palestine, November, 1968

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### **Higher Education**

-**PhD** Comparative Physiology (Blood Physiology), Cairo University, Egypt , **June, 2004**

-**M.Sc.** Biological Sciences. University of Jordan, Amman– Jordan, **August , 1997**

*Excellent 3.82/4.00*

-**B.Sc.** Biology Birzeit University, West Bank, Palestine , **May, 1992**

*Graduation with Distinction*

### **Employment Experiences**

- June 2009 → Present: Associate Professor of Blood Pathophysiology and Genetics, Biology Department, Al Azhar University Gaza
- June 2004 → March 2009: Assistant Professor of Blood Pathophysiology, Biology Department, Al Azhar University Gaza
- Sept. 1997 → May 2004: Lecturer, Biology Department, Al Azhar University Gaza
- Nov. 1993- Aug. 1995: Teaching Assistant, Biology Department, Al Azhar University Gaza

### **Administrative Experiences**

- May 2011 → Aug 2011: Dean Faculty of Science, Al Azhar University Gaza " **On Aug 2011, I left to the USA for my Fulbright Postdoctoral visiting scholarship 2011/2012"**
- Dec. 2009 → April 2011: Deputy Dean, Deanship of Scientific Research Al Azhar University Gaza
- March 2007 → April 2008 : Deputy Dean, Faculty of Science Al Azhar University Gaza
- Sep. 2005 → Feb 2007 : Chairman of the Biology Department, Al Azhar University Gaza
- Jan. 1998 → Aug 2005: Deputy Chairman of Biology Department, Al Azhar University Gaza.
- Jan 2005 → June 2008 Representative member at the quality assurance unit, Al- Azhar University Gaza

### ***Honor Society and International memberships***

- Member of the Board of Directors, Palestine Avenir for Childhood Foundation, the Palestinian Higher Council for Motherhood and Childhood (**Presidential Foundation**) (April 2010 to present)
- Member of the Board of Directors, the Palestinian Higher Council for Innovation & Excellence (**Presidential Foundation**). <http://www.hcie.ps/> (Sept 2012 to present)
- Secretary of the Palestinian Health Research Council. (Aug 2012 to present)
- Member of the MSc and PhD the German Academic Exchange Service (DAAD) scholarship selection committee (2007- present).
- Member of the postdoctoral Fulbright scholarship selection committee (Jan 2012)
- The Palestinian German Association for Academics (PGAA) (2009 to present)

### ***Committees Chairing and Membership Chairman and Deputy Chairman***

- Aug. 2013- Nov 2013: Deputy Chairman of the 17<sup>th</sup> Graduation Ceremony Committee.
- Sept 2009 to Oct. 2010 Chairman of the Organizing Committee of the First International Conference on Basic and Applied Sciences (ICBAS2010) 10-12 October 2010. <http://www.alazhar.edu.ps/icbas/> .
- June 2007 to November 2007 Chairman of the Biological Sciences M.Sc. program committee.
- August 2006 → May 2007 Chairman of the Scientific and Economical Committee of the Faculty of Dentistry Establishing Committee.

### ***Membership***

- March 2014- present: Member of the Biomedical Engineering Curriculum Committee, Al Azhar University Gaza
- Jan. 2014- present: Member of the international relations strategic plan committee, Al Azhar University Gaza
- Dec. 2013 – present: Member of the Scientific Research Council, Al Azhar University Gaza.
- Sept. 2013- Dec 2013: Member of the University committee for drafting the new promotion rules.
- Sept. 2013- Nov 2013: Member of the University general curriculum development committee.
- Feb 2013- present: Supervisor and consultant for Science Journalism project in cooperation with Arab Scientific Community Organization (ARSCO), Gaza Palestine. <http://sciarab.org/>
- Sept 2011 to Oct. 2012: Member of the Organizing Committee of the Second International Conference on Basic and Applied Sciences (ICBAS2) 9-11 October 2012. <http://www.alazhar.edu.ps/icbas2/>
- Sept 2009 to present: Member of the supervising committee of the Computational Science Laboratory.
- Nov 2006 to present: Member of the postgraduate committee at the faculty of science, Al Azhar University Gaza .
- August 2006 to May 2007: Member of the faculty of Dentistry Establishing Curriculum Committee. Al Azhar University Gaza.
- Jan 2004 → June 2005: Member of the biological sciences self-evaluation team, Al Azhar University Gaza.
- June 2004 → July 2004: Member of the graduation project exam committee, faculty of pharmacy, Al Azhar University Gaza.
- Sept 2005 → Feb. 2007: Academic advisor for the 2<sup>nd</sup> and 4<sup>th</sup> year students at the biology department, Al Azhar University Gaza.

### ***Workshop participations as a representative of Al Azhar University-Gaza***

- 10 Jan 2013: The Palestinian Priorities of Health Researches: Workshop organized by the World Health Organization (WHO). Gaza Palestine.
- 6-7 June 2010: Meeting on support for research and higher education in Palestine, All European Academies (ALLEA) & Norwegian Academy of Science and Letters. Oslo, Norway.
- June 2008. Development of quality in Palestinian higher education institutes. Organized by: Accreditation and Quality Assurance Commission (AQAC), 4-5 June 2008. Palestinian Ministry of Higher Education.
- March 2008. Discussion and accreditation of the 2008-2010 strategic plan of the "welfare association" 27 March 2008. Organized by: "Welfare association/ Qattan foundation. Roots Hotel, Gaza.
- March 2008. Erasmus Mundus University II project: postdoctoral scholarships. 17 March 2008.
- March 2007. Institutional and Departmental Budgets: formulation; preparation; implementation and follow-up. 17-22 March 2007. Organized by: Administrative and financial affairs, Al Azhar University Gaza .
- April 2005. B.Sc programs Self-evaluation workshop "Improvement of academic programs" 19-20 April 2005. Organized by: Directorate of Quality Assurance, Palestinian Ministry of Higher Education.

### ***Research and Postgraduate Experiences***

- Deputy Editor: Journal of Al Azhar University Gaza- natural sciences series (2009 to present)
- Associate Editor, Journal of Al Azhar University Gaza- natural sciences series (2007 to 2009).
- Referee for the British Journal of Haematology (John Wiley & Sons, Inc).
- Referee for Food and Chemical Toxicology Journal (Elsevier).
- Referee for the Journal of Pediatrics (Elsevier).
- Referee for The European Journal of Clinical Nutrition (Nature Publishing group Macmillan Publishers Ltd).
- Referee for Blood, Cells, Molecule and Diseases. (Elsevier).
- Referee for PLOS ONE. (PLOS)
- Referee for Mediterranean Journal of Hematology and Infectious Diseases <http://www.mjhid.org/>
- Referee for Gynecological Endocrinology Journal <http://informahealthcare.com/>
- Referee for the International Journal of Medicine and Medical Sciences (academicjournals.org).
- Referee for the Journal of Medical Laboratory and Diagnosis (JMLD) (academicjournals.org).
- Referee for the Journal of Clinical Medicine and Research (JCMR) (academicjournals.org).
- Referee for the Journal of Haematology & Thromboembolic Diseases. <http://www.omicsonline.org/>
- Referee for the Journal of Leukemia <http://www.omicsonline.org/>
- Member of Scientific and Research Committee, Palestinian Thalassemia and Hemophilia Center (PTHC), the Palestinian higher council for motherhood and childhood.
- External examiner for M.Sc. dissertations at the Palestinian Universities.
- Supervising Ph.D. Dissertations at Egyptian universities (Joint supervision)
- Supervising MSc Dissertations at the Palestinian Universities.
- External evaluator for the academic projects and programs submitted to the quality improvement fund (QIF)/Tertiary Education Project (TEP) with the support of the World Bank group and the European Commission Technical Assistance Office (ECTAO). [www.tep.ps](http://www.tep.ps)

## ***Courses Taught at Al Azhar University (Faculties of Science, Medicine, Dentistry, and Pharmacy)***

**Undergraduates:** Hematology, Principles of Genetics, Human Genetics, Molecular Biology, Research Methodology, Principles of Biochemistry, Cell Biology, Immunology.

**Postgraduates:** Research Methodology, Advanced Genetics, Hemoglobinopathies, Advanced Molecular Biology, Seminar and Scientific Writing.

## ***Research Interests***

- Thalassemias (Screening, Molecular Diagnosis, Management, National Prevention Programs).
- Iron Deficiency Anemia
- G6PD deficiency, Red Blood Cells Enzymopathy, and Other Red Blood Cell Disorders.
- Diabetes and Metabolic Syndrome
- Oxidative Stress and Antioxidant Therapy.
- Threatens and Challenges on Public Health

## ***Conferences and Symposiums***

- The 1<sup>st</sup> scientific day on genetic disorders, 23<sup>rd</sup> April, 2014. Biology and biotechnology department, The Islamic University of Gaza, Palestine. (**Oral Contribution and Session Chairperson**).
- The 5th International Conference for Science and Development. 25-26 Feb. 2014. The Islamic University of Gaza, Palestine. (**Oral Contribution and Session Chairperson**).
- The American Society of Hematology (ASH) 54th Annual Meeting. Atlanta, Georgia World Congress Center. December 8-11, 2012. (**Poster Contribution**).
- The Second International Conference on Basic and Applied Sciences (ICBAS2012), 9-11 October 2012. Al Azhar University-Gaza, Palestine. (**Oral Contribution and Session Chairperson**).
- The First International Conference on Basic and Applied Sciences (ICBAS2010), 10-12 October 2010. Al Azhar University-Gaza, Palestine. (**Oral & Poster Contributions and Session Chairperson**).
- The Third Conference of Arab Society of Medical Faculties, & The Second Conference of Jordanian Medical Schools, 2-4 April 2006. (**Oral and Poster Contributions**).
- The 8th symposium on genetics in health and disease status, implicit and implications for individuals and community 2-4 November 2002, Riyadh Saudi Arabia. (**Oral Contribution**).
- The First Regional Symposium on Ethical and Genetic Counseling Issues 13-14 November 1999, Riyadh, Saudi Arabia. (**Oral Contribution**).
- The 8<sup>th</sup> Arab Conference of Clinical Biology, 28 April- 1 May 1997, Amman-Jordan. (**Oral Contribution**).

## *Awards and Honors*

- **Zamalah Research 2014/2015 Scholarship** (Bank of Palestine and Welfare Association) to the Associated Regional and University Pathologists (ARUP) Laboratories, University of Utah School of Medicine, Department of Pathology. (Research visit for 9 months and to be started Sept 2014 to June 2015).
- **Fulbright Postdoctoral Visiting Scholarship (2011/2012)**. University of Utah School of Medicine, Hematology Division. Salt Lake City, Utah USA.
- **The German Academic Exchange Service (DAAD) 2010 Postdoc Fellowship (June.-Aug 2010)**. Molecular Medicine Department, Bernhard Nocht Institute for Tropical Medicine (BNI), Hamburg, Germany.
- **The German Academic Exchange Service (DAAD) 2007 Postdoc Fellowship (Aug.-Sept. 2007)**. Institute for Human Genetics, University of Muenster, Germany.
- **The German Academic Exchange Service (DAAD) MSc Scholarship** to the University of Jordan Amman. Sept 1995- Aug. 1997.

## *Grants, Research Support, and Prizes*

- **The research and graduate affairs 2013/2014 grant of IUG University-Gaza, Palestine.** *Research title:* Genotype-phenotype characteristics of  $\beta$  thalassemia children in the Gaza Strip, Palestine. *Journal of Genetic Disorders and Genetic Reports*. 2013. 2 (2):1-6.
- **The Palestinian Medical Relief Society (PMRS) research support grant.** *Research title:* Iron deficiency anemia among kindergarten children living in the marginalized areas of Gaza strip, Palestine. *Revista Brasileira de Hematologia e Hemoterapia*. 2014. 36(2):132-138.
- **The Scientific Research Council 2014 Prize, Ministry of Education and Higher Education.** *Research title:* Detection of nine  $\beta$ -thalassemia Mediterranean mutations in Palestinians using three restriction enzyme digest panels: a reliable method for developing countries. *Hemoglobin*, 2014. 38(1): 39–43.

## **Publications**

- 1- **Sirdah, M.**, Bilto, Y. Y. , El-Jabour, S., Najjar, Kh., 1997. Screening Secondary School Students in the Gaza Strip for Iron deficiency anaemia and  $\beta$ -Thalassemia Trait. *The Eighth Arab Conference of Clinical Biology*, 28 April- 1 May 1997, Amman-Jordan.
- 2- **Sirdah, M.**, Bilto, Y. Y. , El-Jabour, S., Najjar, Kh., 1998. Screening Secondary School Students in the Gaza Strip for  $\beta$ -Thalassemia Trait. *Clinical and Laboratory Haematology [recently International Journal of Laboratory Hematology]* , Vol. 20 (5): 279-283. [\[PubMed\]](#) [\[Wiley\]](#).
- 3- **Sirdah, M.**, Abu Shahla, A N., Bilto, Y. Y. 1999. Carriers Screening and the Proposed Prevention Program of  $\beta$ -Thalassemia: The Experience of the Gaza Strip. *The First Regional Symposium on Ethical and Genetic Counseling Issues* 13-14 November 1999, Riyadh, Saudi Arabia.
- 4- El-Agouza, I, Abu Shahla, **Sirdah, M.** 2002. The Effect of Iron Deficiency Anaemia on Different Haemoglobin Levels: Possible Consequences on Clinical Diagnosis. *Clinical and Laboratory Haematology [recently International Journal of Laboratory Hematology]*, Vol. 24: 285-289. [\[PubMed\]](#) [\[Wiley\]](#).
- 5- **Sirdah, M.**, El-Agouza, I, Abu Shahla. 2002. Possible Ameliorative Effect of Taurine in the Treatment of Iron Deficiency Anaemia in Female University Students of Gaza, Palestine. *European Journal of Haematology*. 69:236-242. [\[PubMed\]](#) [\[Wiley\]](#).
- 6- El-Agouza, I, Abu Shahla., **Sirdah, M.** 2002. Serum Level of Antioxidant (Taurine) in  $\beta$ -thalassemia Subjects: Possible Protection Against Thalassemia Complications. *8<sup>th</sup> symposium on genetics in health and disease status, implicit and implications for individuals and community* 2-4 November 2002, Riyadh Saudi Arabia.
- 7- Tarazi, I., **Sirdah, M.**, Lulu, N, Al- Najjar, E. 2002. Obligatory Premarital Test for  $\beta$  thalassemia: Crucial Step Adopted Toward the Control of Homozygous  $\beta$  thalassemia in Gaza Strip. *8<sup>th</sup> symposium on genetics in health and disease status, implicit and implications for individuals and community* 2-4 November 2002, Riyadh Saudi Arabia.
- 8 - **Sirdah, M.**, Abu Shahla, AN., Khoudair N., El Agouza, I. 2006. Serum level of antioxidant Taurine in  $\beta$  thalassaemia subjects: possible protection against thalassaemia complications. *Journal of Tropical Pediatrics*. 52(3):227-8. [\[PubMed\]](#) [\[Oxfordjournals\]](#).
- 9- **Sirdah, M.** 2006. Taurine: An Antioxidant of Choice. *Journal of Al Azhar University Gaza*. 8(2): 63-86.
- 10- Tarazi, I., Al- Najjar, E., Lulu, N, **Sirdah, M.** 2007. Obligatory Premarital Tests for  $\beta$  Thalassaemia in the Gaza Strip: Evaluation and Recommendations. *International Journal of Laboratory Hematology*. 29(2):111-118. [\[PubMed\]](#) [\[Wiley\]](#).
- 11- **Sirdah, M.**, Tarazi, I. Al Najjar, E. Al Haddad R. 2008. Evaluation of the diagnostic reliability of

different mathematical formula and indices in the discrimination of  $\beta$ - thalassaemia from iron deficiency in Palestinian population. *International Journal of Laboratory Hematology*. 30 (4): 324–330. [[PubMed](#)] [[Wiley](#)].

12- Tarazi, I. **Sirdah, M**, Jeady, H., Al Haddad, R. 2008. Does cigarette smoking affect the diagnostic reliability of Hb A2. *Journal of Clinical Laboratory Analysis*. 22 (2):119–122. [[PubMed](#)] [[Wiley](#)].

13- **Sirdah, M**, Tarazi, I., Jeady, H., Al Haddad, R. 2008. Normal Blood Cells Reference intervals of Healthy Adults at the Gaza Strip- Palestine. *Journal of Clinical Laboratory Analysis*. 22(5):353-361. [[PubMed](#)] [[Wiley](#)].

14- **Sirdah, M**. 2008. Determinants of hemoglobin level in adolescence students (14-22 years) at Gaza Strip, Palestine. *International Journal of Health Research*. 1(4): 225-234. [[IJHR](#)] [[AJOL](#)].

15- Al Ajerami, Y., **Sirdah, M**.. 2008. Effects of x-ray film processing on health status of medical radiographers at Gaza Strip, Palestine. *Journal of Al Azhar University Gaza*. 10(1):59-76

16- **Sirdah, M**. Abu Rahmma M. 2010. Health consequences of using liquefied petroleum gas (LPG) as an alternative car fuel in Gaza Governorates. *International Journal of Health Research*. 3(1): 37-44. [[IJHR](#)] [[AJOL](#)]

17- **Sirdah MM**, Al Laham NA, Abu Ghali AS. 2011. Prevalence of metabolic syndrome and associated socioeconomic and demographic factors among Palestinian adults (20–65 years) at the Gaza Strip. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*. 5 (2):93-97. [[PubMed](#)] [[Elsevier](#)]

18- **Sirdah M**, Reading NS, Perkins SL, Shubair M, Aboud L, Prchal JT. 2012. Hemolysis and Mediterranean G6PD mutation (c.563 C>T) and c.1311 C>T polymorphism among Palestinians at Gaza Strip. *Blood Cells, Molecules, and Diseases*. 48 (4):203–208. [[PubMed](#)] [[Elsevier](#)]

19. **Sirdah MM**, Al Laham NA, El Madhoun RA. 2012. Possible health effects of liquefied petroleum gas (LPG) on the workers at LPG filling and distribution stations of Gaza Governorates. *Eastern Mediterranean Health Journal*. 19 (3): 289-294. [[Emro](#)]

20. **Sirdah MM**, Abu Ghali AS, Al Laham NA. 2012. The reliability of the National Cholesterol Education Program's Adult Treatment Panel III (NCEP/NCEP/ATP III) and the International Diabetes Federation (IDF) definitions in diagnosing metabolic syndrome (MetS) among Gaza Strip Palestinians. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*. 6 (1):4-8. [[PubMed](#)] [[Elsevier](#)].

21. **Sirdah M**, Reading NS, Perkins SL, Vankayalapati, H. Shubair M, Aboud L, Roper D, Prchal JT. 2012. Molecular Heterogeneity of Glucose-6-phosphate Dehydrogenase Deficiency in Gaza Strip Palestinians. *Blood Cells, Molecules, and Diseases*. 49(3-4): 152–158. [[PubMed](#)] [[Elsevier](#)].

22. Reading, NS., **Sirdah, M.M.**, Perkins, SL., Wilson, AR., Shubair, ME., Aboud, LN., Prchal, JT. 2012. G6PD Deficient Variants Differ in Risk of Hospitalization Among Gaza Strip Palestinian Children. *Blood (54<sup>th</sup> ASH Annual Meeting)*, 120: 4268. [[Bloodjournal](#)]

23. **Sirdah, M.M**, Sievertsen, J., Al-Yazji, M. Tarazi, I., Al-Haddad, R., Horstmann, R., Timmann, C. 2013. The spectrum of  $\beta$ -thalassemia mutations in Gaza Strip, Palestine. *Blood Cells, Molecules, and Diseases*. 50 (2013) 247–251. [[PubMed](#)] [[Elsevier](#)]
24. **Sirdah, M.M**, Abu Shahla A.N., Ghalayeni, B. Abu Ramadan, A. 2013. Etiological risk factors associated with subfertility among Palestinian women in Gaza. *The Journal of Biomedical Research* 27(2):127-134. [[PubMed](#)] [[JBR](#)]
25. **Sirdah, M.M**, Abu Shahla A.N., Al Sarraj H A.. 2013. Effect of the addition of the antioxidant taurine on the complete blood count of whole blood stored at room temperature and at 4°C for up to 7 days. *Revista Brasileira de Hematologia e Hemoterapia*. 35(1):44-51. [[PubMed](#)] [[ABHH](#)]
26. Yassin M.M. **Sirdah, M.M**, Al Haddad R.M., Lubbad A., Al-Yazji M.S. 2013. Genotype-phenotype characteristics of  $\beta$ -thalassemia children in the Gaza Strip, Palestine. *Journal of Genetic Disorders and Genetic Reports*. 2:2. doi:10.4172/2327-5790.1000109 . [[Scitechnol](#)]
27. Reading, NS., **Sirdah, M.M.**, Tarazi, I., Prchal, JT. 2014. Detection of nine  $\beta$ -thalassemia Mediterranean mutations in Palestinians using three restriction enzyme digest panels: a reliable method for developing countries. *Hemoglobin* 38(1): 39–43. [[PubMed](#)] [[informal](#)].
28. **Sirdah, M.M**. 2014. Consanguinity profile in the Gaza Strip of Palestine: large-scale community-based study. *European Journal of Medical Genetics*. 57 (2-3): 90-94. [[PubMed](#)] [[Elsevier](#)]
29. **Sirdah, M.M**, Yassin M.M. El Shekhi S., Lubbad A. 2014. Homocysteine and vitamin B12 status in iron deficient anemic female University students in Gaza, Palestine. *Revista Brasileira de Hematologia e Hemoterapia*. 36(3): 208–212. [[PubMed](#)] [[Elsevier](#)]
30. **Sirdah, M.M**, Yaghi A., Yaghi A.R. 2014. Iron deficiency anemia among kindergarten children living in the marginalized areas of Gaza strip, Palestine. *Revista Brasileira de Hematologia e Hemoterapia*. 36(2):132-138. [[PubMed](#)] [[Elsevier](#)]
31. **Sirdah MM**. 2014 Protective and Therapeutic Effectiveness of Taurine in Diabetes Mellitus: a rationale for antioxidant supplementation. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*. <http://dx.doi.org/10.1016/j.dsx.2014.05.001> [[PubMed](#)] [[Elsevier](#)]
32. **Sirdah MM**. 2014. Superparamagnetic-bead based method: an effective DNA extraction from dried blood spots for diagnostic PCR. *Journal of Clinical and Diagnostic Research*. 8(4): FC01 - FC04. [[PubMed](#)].