

# CURRICULUM VITAE

## Dr. SALAH SHEWEITA



**Name** : SALAH A. SHEWEITA  
**Nationality** : Egyptian  
**Marital status** : Married, with 3 children.  
**Date of Birth** : October 17, 1958  
**Present address** : **Department of Biotechnology, Institute of Graduate Studies & Research, Alexandria University**  
 E-mail: <ssheweita@yahoo.com  
**Home Address** Souter Str., Al-Azaret, Alexandria, Egypt  
 Mobil No: +201125281245

### Academic Degrees:

**1981: B.Sc.** in Biochemistry with average grade "Very Good",  
 Faculty of Science, Department of Biochemistry, Alexandria University,  
 Alexandria, Egypt  
**1987: M. Sc.** in Biochemistry, Department of Biochemistry, Faculty of Science,  
 Alexandria University, Egypt  
**1994: Ph.D.** in **Biochemistry & Molecular Biology** under a joint supervision  
**between** Section of Molecular & Cellular Biology, University of California,  
 Davis, California, 95616, USA. **AND** Alexandria University, Alexandria,  
 Egypt

### Brief Chronology of Employment:

**1981-1987: Demonstrator, Department of Environmental Studies,**  
 Institute of Graduate Studies & Research, Alexandria University,  
 Alexandria, Egypt  
**1987-1994: Assistant Lecturer, Department of Environmental Studies,**  
 Institute of Graduate Studies & Research, Alexandria University,  
 Alexandria, Egypt  
**1994-1997: Lecturer of Biochemistry, Department of Environmental**  
**Studies,** Institute of Graduate Studies & Research, Alexandria  
 University, Alexandria, Egypt.  
**1997-2000: Lecturer of Biochemistry, Department of Bioscience and**  
**Technology,** Institute of Graduate Studies & Research, Alexandria  
 University, Alexandria, Egypt  
**April, 2000- August 2001: Associate Prof. of Biochemistry, Department of**  
**Bioscience and Technology,** Institute of Graduate Studies &  
 Research, Alexandria University, Alexandria, Egypt.  
**August, 2001- April 2005: Associate Prof. of Biochemistry,** Department of  
 Clinical Biochemistry, Faculty of Medicine, Taibah University,  
 Al-Madinah.  
**April 2005-June 2012: Prof. of Biochemistry,** Department of Clinical  
 Biochemistry, Faculty of Medicine, Taibah University, Al-Madinah.  
**August 2012-July 30-2015 Head of Biotechnology Department, IGSR,**  
**Alexandria University.**  
**Agust**

### **Scholarships and Fellowships:**

- 1990-1994:** Financial grant from the Egyptian Government for obtaining the Ph.D. degree in Biochemistry, Alexandria University,. Egyptian Ministry of Higher Education, Egypt
- 1992-1994:** **Visiting Fellowship**, Section of Molecular and Cellular Biology, University of California, Davis, California, USA.
- 1996:** Visiting scientist to University of Wales, School of Biological Science, Bangor, UK.
- 1997:** Visiting scientist to University of Manchester, Paterson Institute for Cancer Research, Manchester, UK.

### **Conferences:**

- 1990:** Participated in the “Second Symposium on Environmental Sciences”, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt. (May, 1990)
- 1991:** Participated in the “Fifth International Conference on Carcinogenesis and Risk Assessment: Comparative Molecular Carcinogenesis; Relevance of Animal Models to the Study of Molecular Mechanism of Carcinogenesis” Texas, USA. (November,1991)
- 1993:** Participated in the Joint Meeting of American Society for Biochemistry and Molecular Biology, Division of Biological Chemistry, American Chemical Society,. San Diego, California, USA. (May-June,1993)
- 1998:** Participated in the “fourth symposium on cytochrome P450 biodiversity and biotechnology”, Strasbourg, France. (13-16 July,1998).
- 1999** Participated in the International Conference on Environmental Management, Health, and Sustainable Development, Alexandria, Egypt (22-25 March)

### **My research interests are focusing on:**

- 1- Nanotechnology and cancer treatment.
- 2- Molecular aspects of bladder cancers and cardiovascular diseases.
- 3- Metabolism of chemical carcinogens through studying the gene expression of different cytochrome P450
- 4- Alleviation of the toxicity of different chemical compounds such as anti-cancer drugs. In addition, my research interest is focused on the role of antioxidants in acceleration of bone healing after bone fractures. Also, alleviations of harmful effects of laparoscopic surgeries are included in this area.
- 5- My research interest is also linked to the development of vaccines against different pathogenic bacteria.
- 6- The sixth line of research is related to isolation and characterization of natural compounds and testing their anti-carcinogenic effects on different cancer cell lines.

- 7- Bioinformatics and drug design for treatment of hepatitis C, and cancers.
- 8- Development of Nano carriers for skin whitening.

## October 2013

### Awards:

- 1-Award of Alexandria university for Scientific Encouragement, 1998
- 2-Award of A-Dawla in Advanced Technological Sciences, 1998.
- 3-Award of Abdul-Hameed Shouman in Biological Sciences, 2004.Jordan
- 4- Award of the best scientific researcher in KSA, 2008, from Scopus.

### Editor:

- 1- Academic Editor of PLoS One (USA) IF 3.56
- 2- Lead Guest Editor of Oxidative Medicine & Cellular Longevity [IF 3.56, USA]
- 2- Editorial Board of African Journal of Biochemistry Research [South Africa].

### المشاركات البحثية:

- 1- مشروع تحديد مركبات النيتروز أمين في مرضى البلهارسيا بمصر- مشروع مشترك بين مصر و ألمانيا.
- 2- مشروع أثر تلوث الغذاء بمركبات الافلاتوكسين على صحة المواطنين - مشروع مشترك بين مصر و الولايات المتحدة و مدعوم من المجلس الأعلى للجامعات - مصر..
- 3- دراسات عن إنزيم الباروكسونيز في مرضى القلب المعالجين بعقار الإستاتين- عمادة البحث العلمى – جامعة طيبة.
- 4 دراسات عن دور مضادات الأكسدة في معدل إلتئام كسور العظام بعد الجراحة في المرضى السعوديين - عمادة البحث العلمى – جامعة طيبة.

### Referee for the following journals:

- 1- Journal of Biomedicine and Biotechnology [USA]
- 2- Medical Science Monitor [USA]
- 3- Molecular and cellular Biochemistry [Canda]
- 4- Journal of Pharmacy and pharmacology [UK]
- 5- Acta Tropica [Seweden]

- 6- Cellular and Molecular biology letters [Poland]
- 7- Journal of Hepatology [Spain]
- 8- Reviewer for African Journal of Biotechnology [ South Africa].
- 9- Human Reproduction [UK].
- 10- Pharmacology and Environmental Toxicology, Canada.
- 11- Oriental Pharmacy and Experimental Medicine, South Korea.

## **Supervisor on 40 Master and 5 PhD thesis at Department of Biotechnology, Alexandria University, Egypt**

### **Teaching Experience.**

#### **A- Post-experience Training Courses (These Courses for the staff members of the Egyptian Universities).**

- March 1996: Enzymes purification and characterization.
- March 1997: Enzymes purification and characterization.
- April 1997: Assessment and control of environmental pollutant.
- April 1998: Molecular Biology Techniques.
- April 1999: Modern Techniques in Genetic Engineering.
- Feb. 2000: Technology of DNA manipulation.
- April 2001 Advanced Genetic Engineering

#### **B- Courses for Postgraduate Students:**

- Biochemistry including metabolism of carbohydrates, proteins, and lipids.
- Biochemical Analysis.
- Bioenergetics
- Enzymes and Macromolecules.
- Enzymes purification and characterization
- Genetic Engineering.
- Biological Chemistry
- Metabolism of Macromolecules.

#### **C- Courses for Undergraduate Medical Students:**

- Clinical biochemistry to second and third year-medical students.
- Molecular Biology to fourth year medical students.
- Biochemistry, dental students, Tabiah University, KSA

### **Research and Professional Experiences:**

#### **Molecular Biology Techniques:**

##### **A- DNA and RNA Manipulation:**

1. Isolation and purification of DNA and RNA from human, animal and plant tissue, as well as microorganisms.
- 2- Analysis of purified DNA using agarose gel electrophoresis
2. Isolation and purification of plasmids.
3. Isolation and purification of cDNA.

4. Cloning and isolation of cloned genes.
5. Transformation of recombinant DNA (cloned genes) into bacterial strains.
6. Identification and selection of positive colonies.
7. Immunoscreening of cDNA expression.
8. Southern transfer of DNA.
9. DNA Fingerprinting
10. DNA sequencing

**B- Polymerase Chain Reaction (PCR) Technique:**

1. Standard PCR.
2. Inverse PCR.
3. Cloning of PCR products.
4. Long Distance PCR
5. RT-PCR
6. PCR Primer
7. Other PCR Methods
8. PCR Downstream Application

**C- DNA-Protein Interaction and polyacrylamide gel electrophoresis:**

- 1- Transfer of expressed proteins from SDS-PAGE to nitrocellulose membrane (Western Blotting) and detection of protein subunits by either colorimetric or chemiluminescence technique.
- 2- Footprinting
- 3- Methylation Interference

**E- Biochemical Techniques:**

- Extraction and preparation of mixed-function oxidase enzymes from the liver of the experimental animals.
- Determination of total content of cytochrome P-450.
- Expression of different P450 isozymes such as 2E1, 2B1/2, 4A, 1A1 and 2C6.
- Assay of the hepatic activity of Aryl Hydrocarbon (Benzo(a)pyrene) hydroxylase.
- Determination of the hepatic content of cytochrome b<sub>5</sub>.
- Determination of free radicals.
- Assay of NADPH-cytochrome c reductase activity.
- Assay of *N*-nitrosodimethylamine *N*-demethylase activity.
- Assay of ethoxycoumarin *O*-deethylase activity.
- Assay of ethoxyresourfin *O*-deethylase and pentoxyresourfin *O*-deethylase activities
- Determination of both oxidized and reduced form of glutathione in the liver of human and experimental animals.
- Assay of glutathione reductase activity.
- Assay of glutathione S-transferase activity.
- Expression of different glutathione S-transferase isozymes.
- Assay of heme oxygenase activity.
- Determination of the hepatic content of microsomal protein.
- Determination of the binding capacity of carcinogens such as benzo(a)pyrene metabolites with DNA *in vivo* and *in vitro*.

## **LIST OF PUBLICATIONS**

[https://www.researchgate.net/profile/Salah\\_Sheweita](https://www.researchgate.net/profile/Salah_Sheweita)

1. Elzoghby AO, Mostafa SK, Helmy MW, EIDemellawy MA, **Sheweita SA**. Superiority of aromatase inhibitor and cyclooxygenase-2 inhibitor combined delivery: Hyaluronate-targeted versus PEGylated protamine nanocapsules for breast cancer therapy. *Int J Pharm.* **2017** Jun 26. pii: S0378-5173(17)30585-9. doi: 10.1016/j.ijpharm.2017.06.077. [Epub ahead of print] PMID: 28663087
2. Elzoghby AO, Mostafa SK, Helmy MW, EIDemellawy MA, **Sheweita SA**. Multi-Reservoir Phospholipid Shell Encapsulating Protamine Nanocapsules for Co-Delivery of Letrozole and Celecoxib in Breast Cancer Therapy. *Pharm Res.* **2017** Jun 22. doi: 10.1007/s11095-017-2207-2. [Epub ahead of print] PMID: 28643236
3. **Sheweita SA**, El Banna YY, Balbaa M, Abdullah IA, Hassan HE. N-nitrosamines induced infertility and hepatotoxicity in male rabbits. *Environ Toxicol.* **2017** Jun 2. doi: 10.1002/tox.22436. [Epub ahead of print]
4. Tawfik DM, Ahmad TA, **Sheweita SA**, Haroun M, El-Sayed LH. The detection of antigenic determinants of *Acinetobacter baumannii*. *Immunol Lett.* 2017 Jun;186:59-67. doi: 10.1016/j.imlet.2017.04.004. Epub 2017 Apr 18.
5. Sheweita SA, Balbaa M, Habib SL. Drug-Metabolizing Enzymes and Metabolic Diseases: Role of Antioxidants. *Oxid Med Cell Longev.* 2016;2016:2026582. Epub **2016** Nov 13.
6. **Sheweita S.A** El-Hosseiny LS, Nashashibi MA..., (2016) Protective Effects of Essential Oils as Natural Antioxidants against Hepatotoxicity Induced by Cyclophosphamide in Mice. *PLoS One.* **2016** Nov 1;11(11):e0165667. doi: 10.1371/journal.pone.0165667.
7. **Salah A. Sheweita**, S. Al-Shora, M. Hassan (2016). Effects of benzo[a]pyrene as an environmental pollutant and two natural antioxidants on biomarkers of reproductive dysfunction in male rats. *Environ Sci Pollut Res*;23(17):17226-35.
8. **Sheweita SA**, Wally M, Hassan M. Erectile Dysfunction Drugs Changed the Protein Expressions and Activities of Drug-Metabolising Enzymes in the Liver of Male Rats. *Oxid Med Cell Longev.* 2016;2016:4970906.
9. L. S. El-Hosseiny, N. N. Alqurashy, S. A. **Sheweita** (2016). Oxidative Stress Alleviation by Sage Essential Oil in Co-amoxiclav induced Hepatotoxicity in Rats. *International journal of Biomedical science* 12(2):71-8.

10. Tarek A. Ahmada, Dina M. Tawfikb, Salah A. Sheweita, Medhat Harounc, Laila H. El-Sayed (2016) Development of immunization trials against *Acinetobacter baumannii*. *Trials in Vaccinology* Volume 5, , Pages 53–60
11. **Sheweita SA**, Mashaly S, Newairy et al., (2016). Changes in Oxidative Stress and Antioxidant Enzyme Activities in Streptozotocin-Induced Diabetes Mellitus in Rats: Role of *Alhagi maurorum* Extracts.. *Oxid Med Cell Longev*. 2016;2016:5264064. doi: 10.1155/2016/5264064. Epub 2016 Jan 18.
12. **Khoshhal KI, Sheweita SA, Al-Maghamsi MSF; Habeb AM (2015)**. Does type 1 diabetes mellitus affect bone quality in prepubertal children? *Journal of Taibah University Medical Sciences (2015) 10(3), 300e305*
13. **Sheweita SA, El-Bendery HA, Mostafa MH**. Novel study on N-nitrosamines as risk factors of cardiovascular diseases. *Biomed Res Int*. 2014;2014:817019. doi: 10.1155/2014/817019. Epub 2014 Aug 27.
14. **Amro AA, Neama AJ, Hussein A, Hashish EA, Sheweita SA**. Evaluation the surface antigen of the *Salmonella typhimurium* ATCC 14028 ghosts prepared by "SLRPScientificWorldJournal. 2014 Mar 19;2014:840863. doi: 10.1155/2014/840863. eCollection 2014.
15. **Sheweita SA., Guraya S. and Murshid KR (2014)**.: Chapter title " **Antioxidants and laparoscopic surgeries**" In: *Systems Biology of Oxidative Stress*. Ed., I. Laher (UBC, Springer-Verlag (Germany) . In press.
16. **Sheweita, SA; Khoshhal KI; Baghdadi HH (2013)**.: Chapter title "Osteoporosis and oxidative stress: Role of antioxidants" *Systems Biology of Oxidative Stress*. Ed., I. Laher (UBC, Springer-Verlag (Germany) .
17. **Tarek A Ahmad, Samar S Rammah, Salah A Sheweita, Medhat Haroun, Laila H El-Sayed** Development of immunization trials against *Pasteurella multocida*. *Vaccine 32(8):909–917*
18. **Baghdadi HH; Allam AR and Sheweita SA (201)**. Erectile dysfunction medication induced-changes in plasma homocysteine level are a risk factor of cardiovascular diseases. *Journal of Taibah University Medical Sciences (2013) 8(3), 151–156*
19. **Sheweita SA, Yousef MI, Baghdadi HH, Elshemy AG**. Changes of drug metabolizing enzymes in the liver of male sheep exposed to either cypermethrin or dimethoate. *Drug Metab Lett*. 2012;6(1):2-6.
20. **Sheweita SA, Baghdadi H. and Allam AR, (2011)**. Role of genetic changes in the progression of cardiovascular diseases. *International J. Biomedical Sciences, 7, 238-247*
21. **Sheweita SA, Sheikh BY 2011**. Can Dietary Antioxidants Reduce the Incidence of Brain Tumors?. *Current Drug Metabolism, 12(6):587-593*

22. Sandukji, A., Al-Sawaf, H., Alrashidi, Y., **Sheweita, SA**. 2011. Oxidative Stress and Bone Markers in Plasma of Patients with long-bone Fixative Surgery: Role of Antioxidants. *Hum Exp Toxicol*. 30(6):435-42.
23. **Sheweita SA**, Hassan M, Bahashwan SA. 2010. *Schistosoma mansoni* changes the activity of phase II drug-metabolizing enzymes: role of praziquantel as antibilharzial drug. *Drug Metab Lett.*;4(3):134-8.
24. **Sheweita S.A.**, Mousa N., Al-Masry HM (2008) *N*-nitrosodimethylamine changes the expression of glutathione s-transferase in the liver of male mice: role of antioxidants. *J Biochemical & Molecular Toxicology*. 22(6):389-95
25. Newairy A.A., El-Sharaky A.S., Badreldeen M.M., Eweda S.M., and **Sheweita S.A.** (2007) The hepatoprotective effects of selenium against cadmium toxicity in rats. *Toxicology* 242: 23-30.
26. **Sheweita S. A.**, Koshhal K (2007) Calcium metabolism and oxidative stress in bone fractures: role of antioxidants. *Curr Drug Metab*. 2007;8(5):519-525
27. **Sheweita S. A.**, Mousa N. and Newairy A.A. (2007) *N*-nitrosodimethylamine induced changes in the activities of carcinogen-metabolizing enzymes in the liver of male mice: role of glutathione and gossypol as antioxidants. *African Journal of Biochemistry Research* Vol.1 (5), pp. 078-082.
28. Newairy A.A . El-Sharaky A.S., Badreldeen M.M., Eweda S.M., and **Sheweita S.A**(2007) Protective role of selenium against renal toxicity induced by cadmium in rats. *Toxicology*, 235(3):185-93 .
29. **Sheweita S. A. (2007)** Glutathione alleviates the influence of *N*-nitrosamines on the activity of carcinogen-metabolizing enzymes in the liver of male mice. *Journal of Taibah University: Medical Sciences* 1(1); 72-81.
30. Ibrahim, H.M., **Adham, K.G., Sheweita, S. A.** and Abdulnabi, B. M. (2007). Hepatic transformation of *Oreochromis Niloticus* in lake Maryut in response to xenobiotic exposure. *Alex. J. Vet. Sci.* 25 (1): 179-196.
31. Ibrahim, H.M., **Adham, K.G., Sheweita, S. A.** and Abdulnabi, B. M. (2006). Impact of pollutants exposure on serum biochemical transformation of *Oreochromis Niloticus* from lake Maryut. *Alex. J. Vet. Sci.* 24 (1): 243-259.
32. **Sheweita S.A** (2005) Changes in the expression of cytochrome P450 2E1, 2B1/2, 4A, 2C6 in livers of male mice: Influence of different levels of *Schistoasoma mansoni cercariae*. **Saudi Pharmaceutical Journal** 13 [1]:48-54
33. **Sheweita S. A.**, Abdulkarim M. Telmisany and Hussein Al-Sawaf (2005). Mechanisms of Male Infertility: Role of antioxidants. Review. **Current Drug Metabolism** 6;495-501.
34. **Sheweita S.A;** El-Shahat, F. G., Abu El-Maati, M. R., Bazeed, M. A and O'Connor, P. (2004). Effects of *Schistoasoma haematobium* infection on drug-metabolizing enzymes in human bladder cancer tissues. **Cancer letters** 205(1):15-21.
35. **Sheweita S.A** (2004) Carcinogen-metabolizing enzymes and insecticides. **Environmental Sciences & Health** Part B, Vol.B39, No.5-6,pp.805-818.
36. Ajabnoor MA; AL-Ama M.N.; Banjar Z., Abdul Rafee A. and **Sheweita S.A.** (2003). Homocysteine levels and other biochemical parameters in cardiovascular disease patients associated with diabetes mellitus. **Medical Science Monitor, USA**, 9(12): CR 523-527.



37. **Sheweita, S.A.** and Tilmisany, A.K. 2003. Cancer and phase II drug-metabolizing enzymes. *Current Drug Metabolism* 4, 45-58.
38. **Sheweita S.A.**, Mostafa M.H., Ebid F., and El-Sayed W. (2003). Changes in the expression and the activity of glutathione S-transferase in different organs of *Schistosoma haematobium*-infected hamster. **Journal of Biochemical and Molecular Toxicology**, 17 (4):138-145
39. **Sheweita, S.A.** (2003) Narcotic drugs change the expression of cytochrome P450 2E1 and 2C6 and other activities of carcinogen-metabolizing enzymes in the liver of male mice. **Toxicology** 191(2-3): 133-142
40. **Sheweita, S. A.**, Mostafa M. H., Mubark J., Doenhoff M., Margison G. P., O'Connor, P. J. and Elder, R. H. (2002) Changes in the expression of cytochrome P450 isozymes and related carcinogen metabolizing enzyme activities in *Schistosoma mansoni* infected mice. **Journal of Helminthology** 76, 71-78.
41. Newairy, A. A., Mansour, H.A., Yousef, M.I., **Sheweita, S. A.**, (2002) Alteration of lipid profile in plasma and liver of diabetic rats: influence of hypoglycemic herbs. **J. Environmental Science and Health, Part B**; 37 (5): 475-483.
42. **Sheweita, S. A.**, Newairy, A. A., Mansour, HA., Yousef, M.I. (2002) Effect of some hypoglycemic herbs on the activity of phase I and II drug-metabolizing enzymes in alloxan-induced diabetic rats. **Toxicology** 174(2): 131-139.
43. Mansour, HA., Newairy, A. A., Yousef, M.I., **Sheweita, S. A.**, (2002) Biochemical study on the effect of some Egyptian herbs in alloxan-induced diabetic rats. **Toxicology** 170: 221-228.
44. **Sheweita, S.A.**, Abd El gabar M., Bastawy M. (2001) Carbon tetrachloride changes the activity of cytochrome P450 system in the livers of rats: role of antioxidants. **Toxicology** 169; 83 – 92.
45. **Sheweita, S. A.**, Abu El-Maati, M. R., El-Shahat, F. G., and Bazeed, M. A. (2001) Changes in the expression of cytochrome P450 2E1 and the activity of carcinogen-metabolizing enzymes in *Schistosoma haematobium*-infected human bladder tissues. **Toxicology** 162:43-52.
46. **Sheweita, S.A.**, Abd El gabar M. and Bastawy M.(2001) Carbon tetrachloride-induced changes in the activity of phase II drug-metabolizing enzyme in the liver of male rats: role of antioxidants. **Toxicology**, 165:217-24
47. Awney, H., Gohzlan, H., **Sheweita, S.A.**, Mostafa, M. H. (2001). Different levels of *Schistosoma mansoni* infection increased the mutagenicity of benzo(a)pyrene, the activity of aryl hydrocarbon hydroxylase, and the formation of hepatic microsomal hydrogen peroxide. **Toxicology** 163:213-218.
48. **Sheweita, S.A.**, M.H. El-Masry, M. El-Sayed (2001) New method for degradation of some narcotics and assessment of their toxic effects. International Association of Forensic Toxicologists, 39<sup>th</sup> Annual International Meeting, pp.232-248, Prague, Czech Republic. P-29.
49. Abul\_El-Maati MR, **Sheweita SA**, Haroun MA. (2001) Multiplicity of *Schistosoma mansoni* infection changed the activity of ATPases and the levels of free radical in the liver of male mice. *Mansoura J. Forensic Med. Clin. Toxicol.*, Vol.IX, No.2; 1-11.
50. **Sheweita, S. A.** (2000) Drug-metabolizing enzymes: Mechanisms and Functions. A review. *Current Drug Metabolism* 1:107-132.
51. El-Demerdash, F.M., Yousef, M.I., and **Sheweita, S.A** (1999) Ameliorating effect of some antioxidants on carbon tetrachloride-induced-biochemical alterations in rats. **Environmental and Nutritional Interaction** 3:245-255

52. **Sheweita, S. A.** (1999) Changes in the activity of mixed-function oxidase enzymes in the liver of male Mice: influence of heavy metals. **Environmental and Nutritional Interaction** 3:123-135
53. Mostafa, M. H., **Sheweita, S. A.**, and P.J. O'Connor (1999) The relationship between schistosomiasis and bladder cancer. A review. **Clinical Microbiology Reviews**, 12(1): 97-111.
54. Akihiko Ichi-ishi, **Sheweita, S. A.**, and Doi, R. H. (1998). Characterization of EngF from *Clostridium cellulovorans* and Identification of a Novel cellulose binding domain. **Applied and Environmental Microbiology** 64(3): 1086-1090.
55. **Sheweita, S.A.**, Mostafa, M.H., Doenhoff, M., Margison, G.P., O'Connor, P.J., and Elder, R.H. (1998) Changes in the expression of cytochrome P450 isozymes and related carcinogen metabolizing enzyme activities in *Schistosoma mansoni* infected mice. Proceeding of fourth Symposium on Cytochrome P450 Biodiversity and Biotechnology", **Strasbourg, France**
56. **Sheweita, S. A.**, Mangoura, S. A., and El-Shemi, A. G. (1998). Different levels of *Schistosoma mansoni* infection induce changes in drug-metabolizing enzymes. **Journal of Helminthology** 72, 72-77.
57. **Sheweita, S. A.** 1998. Heavy metal-induced changes in the glutathione levels and glutathione reductase/glutathione S-transferase in the liver of male mice. **International Journal of Toxicology** 17(4): 383-392.
58. **Sheweita, S. A.**, Habib, S. L. and Mostafa, M. H. (1997) Schistosomiasis induced-changes in the glutathione levels and glutathione reductase/glutathione S-transferase in human liver. **Biomedical Letters**, 56, 119-127.
59. **Sheweita, S.A** and Mostafa, M.H. (1996): N-nitroso compounds and their effects on the hepatic level of glutathione, glutathione reductase and glutathione S-transferase activities in the liver of male mice. **Cancer Letters**, 99:29-34.
60. **Sheweita, S. A.**, Ichi-ishi, A., Park, J., Liu, C., Malburg, L. and Doi, R. H. (1996) Characterization of engF, a gene for a non-cellulosomal *Clostridium cellulovorans* endoglucanase. **GENE**, 182: 163-167.
61. **Sheweita, S. A** and Mostafa, M. H. (1996): N-nitroso compounds induce changes in carcinogen-metabolizing enzymes. **Cancer letters** 106:243-249.
62. Habib, S. L., **Sheweita, S. A.**, Mostafa, M. H., Awad, A. F., Mashaal, N. M., and Soliman, A. A. (1996): Influence of *Schistosoma mansoni* infection on carcinogen-metabolizing capacities and in vitro aflatoxin b<sub>1</sub> metabolism in human liver. **Oncology Reports** 3: 769-773.
63. **Sheweita, S.A.** and Mostafa, M. H. (1995): Recovery of the hepatic carcinogen-metabolizing capacity in schistosome-infected mice after treatment with the anti-schistosomal praziquantel. **Oncology Reports** 2:155-159.
64. Mostafa, M.H., **Sheweita, S.A.**, El-koweidy, A. H. and Badawi, A.F. (1993): Alterations in the carcinogen metabolizing capacities of mouse liver during *Schistosoma mansoni* infection. **International Journal of Oncology**, 2: 695-699.
65. Mostafa, M. H., **Sheweita, S. A.** and Doi, R. H. (1993): Recovery of drug metabolizing enzyme activity by treatment of the infected mice with praziquantel after infection with *S. mansoni*. American Chemical Society, San Diego, California, USA. PP: **FASEB Journal** A1166.
66. **Sheweita, S. A.**, Mostafa, M. H. and Doi, R. H. (1993): Modification of hepatic level of glutathione, glutathione S-transferase and glutathione reductase activity after infection of the experimental animals with *S. mansoni*. American Chemical Society, San Diego, California, USA. PP: **FASEB Journal** PP: A1075.

67. Mostafa, M. H. and **Sheweita, S. A.** (1992): Modification of the oxidative demethylation of dimethylnitrosamine by various anti-inflammatory Drugs. **Ramazzini Newsletter**, 2, 15-22.
68. Mostafa, M. H., **Sheweita, S. A.** and Abdel- Moneam, N. M. (1990): Influence of some anti-inflammatory drugs on the activity of aryl hydrocarbon hydroxylase and the cytochrome P-450 content. **Environmental Research**, 52, 77-82.