

## C.V

**Dr. MOHAMED S.E . ABDEL MOATY**

**Name** : Mohamed Shawky El-sayed Abdel Moaty

**Birth date** : 19/6/1965

**Nationality** : Egyptian.

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**Status** : Married and have three kids.

### QUALIFICATION :

**B .V.Sc .**, 1987 , Fac. of . Vet .Med, Cairo University.

**M .V .Sc.**, 1994 ( **Microbiology** ), Fac. of . Vet .Med, Cairo University .

**Ph .D**, 1996 (**Molecular Biology**), Fac. of. Vet .Med, Cairo University **Assistant Professor** in Veterinary Serum and Vaccine Res, June 2002.

**Professor Doctor.** in Veterinary Serum and Vaccine Res, June 2007.

**Award: National Encouragement prize in biology 2001.**

**Deputy Manager** for diagnosis and treatment of poultry diseases in Al Kahra Ildwagen for 2 years (1989 to 1991).

**Technical consultant** in Al-ENAYAH EST.FOR AGRICULTURE & VETERINARY in Riyadh for one year from 1998 to 1999 (Veterinary drugs & poultry Vaccines).

**Head of molecular Biology center** in Egyptian international pharmaceutical Industries Company (EIPICO) from Sep 2000 to Sep 2005.

**Production manager** in Rhein-Minapharm from March 2005 until end of 2009.

**Professor Doctor** in King Faisal University-Al Hassa- Saudi Arabia from April 2012 until now.

### Job :

- **Professor Doctor.** In Veterinary Serum and Vaccine Res. Inst. Abbassia, Cairo.

### Job description:

1. Production of different large animal vaccines and poultry vaccines in serum and vaccine research institute.

2. Identification of viruses using different serological techniques e.g. Complement fixation test (CFT), Agar gel precipitation test (AGPT), ELISA , Serum neutralization test (SNT), Polymerase chain reaction (PCR).
  3. Preparation and evaluation of veterinary vaccines.
  4. Preparation of primary tissue cultures from different organs of animal cells and cell lines like BHK clone 13, MDBK and VERO cells and CHO cells.
  5. Sharing in the scientific researches implemented by the dept. staff members.
  6. Teaching, molecular biology, PCR and Serology courses.
- **Head of molecular Biology center** in Egyptian international pharmaceutical Industries Company (EIPICO) from Sep 2000 to Sep 2005.

**Job description:**

Main responsibilities:

- 1- Production of biopharmaceutical products like Erythropoietin hormone, Hepatitis B surface antigen vaccine and colony granulocyte stimulating factor.
- 2- Managing the manpower for required work.
- 3- Ensure the production and storage of these products according to the appropriate documentation in order to obtain the required quality.
- 4- Ensure the evaluation of the batch protocols.
- 5- Ensure the appropriate validation of all related process steps in cooperation with the QA department.
- 6- Quality control of the products as
  - a. Polyacrylamide gel electrophoresis
  - b. Immunoblotting
  - c. Isoform distribution examine by isoelectric focusing
  - d. Dimers and higher molecular mass related substance
  - e. Bacterial endotoxin
  - f. Bioassay either by mice or tissue culture or ELISA
  - g. Potency of vaccines
  - h. HPLC

**Interfaces:**

- 1- Interface to the other departments in the company to ensure scheduled filling and product release.
- 2- Maintenance of the production area and other labs with engineering department.

***Achievements:***

- Optimization, standardization and upscale of all products.

***Supervising power:***

- 1- Employees of fermentation dept.
- 2- Employees of purification dept.
- 3- Employees of QC.
- 4- Employees of buffer preparation dept.
- 5- Technicians.

***Signatory powers:***

Internal: all relevant documents related to the center.

External: for all relevant equipments, spare parts and utilities.

***Budget responsibilities:*** Yes

***Working hours:*** 8 am to 4 pm.

***Production manager*** in Rhein-Minapharm from March 2005 until end of 2009.

***Job description:***

***Main responsibilities:***

- 1- Execution of the production process for all products generated at Rhein Minapharm Biogenetics ( Interferon, Peg interferon & Hirudin ).
- 2- Managing the man power for required work.
- 3- Ensure the production and storage of these products according to the appropriate documentation in order to obtain the required quality.
- 4- Ensure the evaluation of the batch protocols.  
Ensure the appropriate validation of all related process steps in cooperation with the QA department.
- 5- Maintenance of the production department, equipments and facility.
- 6- Ensure the evaluation of the batch protocols.

- 7- Ensure the appropriate validation of all related process steps in cooperation with the QA department.

***Additional responsibilities:***

- 2 weeks written reports about all actions of the production facility send to the plant manager:
  - Production plan with staff responsibilities.
  - Production progress.
  - Technical equipment status with necessary maintenance.
- Leading of staff in the production area.
- Internal audits of the production along with QA and plant manager.
- Ensure that the required initial and continuing training of the personnel is carried out and adapted to the need of RM-BG ( in cooperation with QA).
- Preparation and execution of internal presentations and seminars.

***Achievements:***

- Optimization, standardization and upscale of all products.
- Upscale of the interferon from 30000 amp/ batch to 500000 amp/batch.
- Upscale of Hirudin yield.

**Interfaces:**

- 1- Interface to the other departments of Minapharm Pharmaceuticals to ensure scheduled filling and product release.
- 2- Maintenance of the production area under the control of Minapharm's engineering department.
- 3- Close cooperation with the plant manager and QC department.

***Supervising power:***

- 1- Employees of fermentation dept.
- 2- Employees of purification dept.
- 3- Employees of buffer preparation dept.
- 4- Technicians.

***Signatory powers:***

Internal: all relevant documents related to the production.

External: for all relevant equipments, spare parts and utilities.

***Budget responsibilities:*** Yes.

***Working hours:*** 8 am to 5 pm.

**Collaborative Activities :**

- 1- Training in **Holland** - 1994 (Community Coordinating Institute) in quality control Veterinary of vaccine which include:
  - Titration of viruses.
  - Serum neutralization test.

- ELISA
  - Inactivation curve of viruses.
  - Estimation of protein content of biological samples.
  - preparation of oil emulsion vaccine.
- 2- Sharing with the team of *Theodor Bilharz Res. Inst.* in RNA extraction of FMD virus, application of PCR technique and sequencing of VP1 using radioactive isotopes.
  - 3- Sharing in the *Tri-National project* (between USA, Egypt); April - 1995.
  - 4- Sharing in the Regional Oversight Committee for Animal Health Cooperation in the Middle East (*ROC*) sponsored by the European Union .The First FMD Regional Workshop. 18-21 December 1997.
  - 5- Sharing in the Foot and Mouth disease activities in Egypt (*MERC project*) 22-25 November 1999.
  - 6- In a joint work in Biotechnology Transfer Unit of INTERNATIONAL CENTER FOR GENETIC ENGINEERING AND BIOTECHNOLOGY TRIESTE, ITALY 2000, 2001 and 2003 in Tissue culture, Protein purification, Quality control of Biopharmaceutical products and Bioassay.
  - 7- In a joint work in Recombinant Gene Products Laboratory of INTERNATIONAL CENTER FOR GENETIC ENGINEERING AND BIOTECHNOLOGY New Delhi India 2001 in High Cell Density fermentation, Protein purification , Quality control of Biopharmaceutical products.
  - 8- Training course in **England** about High-pressure homogenizer.
  - 9- Registration of patent in Egyptian Scientific Research Academy 1996 (Cloning and expression of VIA gene of foot and mouth disease using expressed VIA protein as ELISA Kit for diagnosis of infected and carriers animals).

**List of publication:-**

1. **Shawky M**, El-Nakashly S, Omar A, Abd El-Aty, M (1999), Differentiation between infected, repeatedly vaccinated and free animal with FMD virus using bio-engineered VIA. Vet. Med. J., Giza. Vol. 47, No.3.: 321-326.
2. **Shawky M**, Saber M, Abdel Rahman A, El-Sonousi A (1999) Cloning and Expression of 3CD Genes of FMDV, Vet. Med.J.,Giza Vol 47 (3): 289-294.

3. **Shawky M**, El Watany H, El-Kelany S, Roshedy O (2000), Evaluation of relationships among ELISA, Dot ELISA and Agar gel precipitation tests in detection of 3CD antigens of FMDV. *Egy. J. of immunology* Vol. (7), (1),: 97-103.
4. Mohamed M, El-Kanawati Z, **Shawky M**, Abdel-Aty M(2000), Detection of FOOT and Mouth Disease Virus during an Outbreak of 1996 in Egypt. *J.Egypt.Vet.Medicine Ass.* 60(1): 41-46.
5. **Shawky M**, Ismail I, Abd El-Aty, M, Hassan N, and Daoud A (2001), Isolation and identification of FMDV in clinical samples from Ismaelia and Monofeia governorates in Egypt during year 2000. *J. Egy. Vet. Med. Ass.*, No (2): 251-257.
6. Abd El-Aty, M.; El-Kelany S, **Shawky M** and El Watany H (1999), Preparation and evaluation of immuno florecent conjugate against FMDV infection in farm animals. *Vet. Med. J. Cairo univerisity*, Vol. (48), No. (2)
7. Ismail I, Edghaidy W, **Shawky M**, and Daoud A (2000), Immune response of sheep vaccinated with combined PPR and FMD vaccine. *SCVMJ*, III (1).
8. El Watany H, **Shawky M**, Roshedy O and El-Kelany S (1999), Relationship between cellular and humeral immune response on animal vaccinated with FMD vaccine. *Zagzig vet. J.*, No. (1)- Vol. (27).
9. **Shawky M**, Edghaidy W, El Watany H, Abdel Rahman A and Daoud A (2000), Epidemiological studies of FMD in border governorates in Egypt. 5<sup>th</sup> Scientific conference – Faculty of Vet. Medicine- Zagazig university
10. **Shawky M**, El-Nakashly S, Abdel Rahman A (2000), Production of reference hyperimmune serum against 3CD antigens of FMDV. *SCVMJ*, III (1).
11. Daoud A, Edghaidy W, **Shawky M**, Hassan K, Taha M (2001), Trial for preparation and evaluation of inactivated alhydra-gel combined vaccine for foot and mouth disease and rift vally fever. *Beni-Suef Vet. Med. J.* Vol. XI., No. (2) Oct.,: 599- 607.
12. **M. E. Shawky** and A. M. Daoud (2004), Standardization and Optimization of a Long Distance PCR Assay for Foot and Mouth Disease Virus. *Egyptian J. Virol.* 2004;1: 393-397.
13. **M. E. Shawky** and A. M. Daoud (2004), Production of FMDV ELISA Kit for antibodies detection in animals using native Strain with production of reference hyperimmune serum in guinea pigs. *Egyptian J.Virol.* 1, 399-403.

14. M. A. FARAG, **M. SHAWKY** and A.M.DAOUUD (2005), Western blot in comparison with ELISA for detecting antibodies against foot and mouth disease virus. *Vet.Med.J.,Giza*. Vol.53, No.4.: 949-955.
15. **Shawky M\***, Ismail I\*, Abdullah M\*\* and Aggour A\*.(2006), Serosurveillance Of FMD In Camels, Sheep And Goat In Area Of Halayib And Shalateen. *Zag. Vet. J. (ISSN. 1110-1458) Vol. 34, No. 2 (2006): 92-97.*
16. **Shawky M\***, Ismail I\*, Abdullah M\*\* and Aggour A\*.(2006), Serological Investigation Of FMD On Sera Collected during 2005 From Cattle, Sheep And Goats In Siewa Oasis, Egypt. *Zag. Vet. J. (ISSN. 1110-1458) Vol. 34, No. 2: 98- 102.*
17. **Mohamed Shawky<sup>1</sup>** and Mohei El-Din Solliman<sup>2</sup>(2006) Use of Random Amplified Polymorphic DNA (RAPD) Analysis For The Identification of O and A serotypes of Foot-and-Mouth Disease Virus. *Zag. Vet. J. (ISSN. 1110-1458) Vol. 34, No. 3 (2006) pp.111- 120.*
18. **Shawky M.** and Ismail I. (2006) Effect of Different Adjuvant Formulations in Electing Foot and Mouth Disease Virus Type O1 Hyper Immune Sera in Sheep. *Zag. Vet. J. (ISSN. 1110-1458) Vol. 34, No. 3:121-126.*
19. Ehab El-Sayed, Wael Mossad, Samir Mohamed Ali, **Mohamed Shawky** (2012), Studies on the duration of immunity induced in cattle after natural FMD infection and post vaccination with bivalent oil vaccine. *Vet. World, Vol.5 (10): 603-608.*
20. **Shawky M,** Mohamed AA, Hind M Daoud and Ekbal M Farouk(2012) Immunological Effect Of Levamisole As Immunostimulant In Vaccination With Bivalent Oil Adjuvant Foot And Mouth Disease Vaccine In Sheep. *Zag. Vet. J. (ISSN. 1110-1458) Vol. 40 No. 6:13-21.*
21. **Shawky, M.;** Abd El-Aty, M.; Hiam, M. Fakhry; Hind, M. D.; El-Sayed, E.; Mossad, W.; Sonia, A. Rizk ; Abu-Elnaga, H.; Abubakr A. M.; Abd El-kreem **A. and Ekbal M. Farouk (2013) "ISOLATION AND IDENTIFICATION OF FOOT AND MOUTH DISEASE SAT-2 VIRUS ISOLATE DURING EGYPTIAN OUTBREAK" J Vet Adv, 3(2): 60-68.**
22. **Mohamed Shawky Al Sayed,** Ahmed Sayed Ahmed, Yousef Mohamed Alyousef (Characterization of Newcastle disease antibody response and some related performance indicators of two local Saudi chicken lines and two cross lines during the rearing period). Under Publication in The Journal of Animal and Plant Sciences (JCR 2014; IF 0.448).

**Essential Supervision:**

PhD Thesis entitled “Molecular Comparison between FMDV Causing Recent Outbreaks in Egypt and the Used Vaccine Strains. Dept. of Virology, Faculty of Veterinary Medicine, Zagazig University. It was discussed in 2013.

**languages:**

Arabic: Mother Tongue.  
English: excellent.

**Computer Skills:**

Very good command of Microsoft office 2007 (Word, excel, PowerPoint)  
Very good command of using internet