

## Curriculum Vitae

### **personal Information**

*Name* Ass. Prof. Amr Abdel Aziz El-Sayed  
*Title* Ass. Professor, Dep. Of Internal Medicine and Animal Infectious Diseases  
*Date of Birth* 23.07.1968  
*Place of Birth* Manial, Cairo  
*Citizenship* Egyptian



### **Contact Information**

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*Current Address* 65 Manial street, Cairo

### **Educational Qualifications**

Ph. D., Institute of Hygiene and Animal Infectious Diseases – Institute of Micro and Molecular Biology, Justus Liebig Uni. , 2000  
M. Sc., Faculty of Veterinary Medicine, Cairo Uni. – Institute of Hygiene and Animal Infectious Diseases, Justus Liebig Uni., 1996  
B. Sc., Faculty of Veterinary Medicine, Cairo University, 1990

### **Academic Positions**

Ass. Professor, Animal Infectious Diseases, Faculty of Veterinary Medicine, Cairo University, 2008  
Lecturer, Animal Infectious Diseases, Faculty of Veterinary Medicine, Cairo University, 2001

Assistant Lecturer, Animal Infectious Diseases, Faculty of Veterinary Medicine, Cairo University, 1996

Demonstrator, Animal Infectious Diseases, Faculty of Veterinary Medicine, Cairo University, 1990

**Awards:** Misr El Kher, 2011

**Areas of experience :** Molecular biology, Paratuberculosis, E.coli, Avian Influenza

**Membership:** DAAD Alumini

### **Professional Qualifications**

Conferences	1999: 5. Werkstattbericht aus Natur- und Lebenswissenschaften, Justus-Liebig-Universität, Giessen, Germany
	2001: Deutsche Gesellschaft für Hygiene und Mikrobiologie (DGHM), 53. Aachen, 30. September - 4. Oktober 2001.
	2003: 44 Arbeitsgebietes Lebensmittelhygiene, DVG, Garmisch-Partenkirchen, Germany
	2003:13 Symposium deutschsprachiger Veterinaerpharmakologen und toxikologen. 25 und 26 September in Muenchen. Germany.
	2004: SAIB -XL Annual Meeting. ARGENTINE SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY. December 5-8, República Argentina
	2008: XXV Jubilee World Buiatrics Congress, Juli 6-11, Budapest, Hungary

<b>Training courses</b>	<p>Professional Training (modern molecular biological diagnosis of mastitis causing pathogens) JLU and the national labs. of Hesse, Germany, 01.11.1994 – 31.10.1995</p> <p>Advanced Training in molecular biological diagnosis of animal pathogens Institute of Micro- and Molecular Biology (JLU), Germany, 02.2001 – 04.2001</p> <p>Practical Training for the diagnosis of poultry diseases Institute of Poultry Diseases (JLU), Germany, 06.2001 – 09.2001</p>
<b>Computer Skills</b>	Very Good computer skills (joined advanced Training courses)

**Patents: Submitted:**

2011: new approach for the recycling of biological wastes in the slaughterhouses (2 patents).

2011: New device for the extraction of DNA from the gel

<u>Projects Participation</u>	<u>Organization</u>	<u>Date (from-to)</u>
Molecular biological characterization of the main causative agents of mastitis and the development of new diagnostic methods.	Institute of Pharmacology and Toxicology (JLU), Germany. Other researchers from Argentina and Mexico shared partially in the project. The results were published in 10 international papers and 2 International posters (see list of publications)	2002-2006
Screening of <i>Mycobacterium avium paratuberculosis</i> in Hesse, Germany	The national laboratories of Hesse, Germany. The results are published in 2 International posters, 2 papers are submitted for publication, 2 papers are under preparation for publication.	2006-2008
Epidemiological studies on avian influenza in Egyptian swines.	Cairo University	11/2008- 2010
Epidemiological studies on the hidden sources of avian influenza in the Egyptian environment.	Cairo University	2009- 2011
Epidemiological studies on <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> in Egypt and the investigation of possible link between Cohn's diseases and	STDF	1/2010-2012

Johne's disease		
Genetic differentiation and characterization of mastitis inducing pathogens in Mexico	Jelsica University, Mexico	2008- 2011
<u>Foreign languages</u>		
	Arabic	Mother tongue
	English	Very good
	German	Very good

**Publications:**

**List of publications:**

Journal's Publication		Conference's Publication		Authors			Total
Local	International	Local	International	Single	Shared		
					Internal	External	
3	28	0	4	10	7	18	35

**In addition to the 35 publications, Dr. El-Sayed published 23 Sequences in the Genbank (international).**

1- Amr El-Sayed, 1996, Exotic camel diseases, Master Thesis, Cairo University,

2- Zschöck, M., El-Sayed A. und H. P. Hamann. 1998. Zum Vorkommen verotoxin-bildender *E. coli* (VTEC) bei der Mastitis des Rindes. *Milchwissenschaft.* 53 (6), 27-29.

3-El-Sayed A., Wieler, L. H., Baljer, G. und M. Kröger. 1999. Direkte Sequenzierung von Prophagen in EHEC-Stämmen. Poster - 5. Werkstattbericht aus Natur- und Lebenswissenschaften, Justus-Liebig-Universität, Giessen.

4- Wieler, Lothar H.; Busse, Barbara; Wagner, Cornelia; El Sayed, Amr: 1999. Untersuchungen zur Evolution von Shigatoxin-bildenden *E. coli*. Justus-Liebig-Universität Gießen, Fachbereich Veterinärmedizin. Festveranstaltung anlässlich des 75- jährigen Bestehens des Instituts für Hygiene und Infektionskrankheiten der Tiere. Gießen, 9. Juli 1999. Abstr. in: Festschrift S. 47-52.

5-Wieler, L. H., Busse, B., Wagner, C. und A. El-Sayed. 1999. Untersuchungen zur Evolution von Shigatoxin-bildenden *E. coli*, Festschrift, Institut für Hygiene und Infektionskrankheiten der Tiere, Justus-Liebig-Universität, Gießen.

6-El-Sayed, Amr A. A.2000. Molekularbiologische Charakterisierung von zwei Shigatoxin-kodierenden Bakteriophagen enterohämorrhagischer *Escherichia coli*-Stämme. Vet. Med. Diss. Justus Liebig Universität, Germany.

7-Kroeger, Manfred; El-Sayed, Amr; Wieler, Lothar H.; Baljer, Georg; Stamm, Ivonne; Menge, Christian 2001: Characterization of Shigatoxin producing prophages in German and Egyptian bovine *E. coli* reveal new insights into the evolution of toxic phages. Deutsche Gesellschaft für Hygiene und Mikrobiologie, 53. Poster - Tagung. Aachen, 30. September - 4. Oktober 2001.

8-Alber, J., A. El-Sayed, C. Philippe, C. Lämmler und M. Zschöck 2003: Identifizierung und Differenzierung von *Streptococcus uberis* und *Streptococcus parauberis* durch PCR-vermittelten Nachweis speziesspezifischer Genabschnitte des Superoxid-Dismutase A- und Chaperonin 60-Gens. Poster bei 44 Arbeitsgebietes Lebensmittelhygiene, DVG, Garmisch-Partenkirchen.

9-Alber, J., A. El-Sayed, Phillippe C., laemmler, C. and Petzinger, E., 2003: Pyrogene Exotoxine pathogener Streptokokken. Poster-Abstract Nr. 26. In 13 Symposium deutschsprachiger Veterinärpharmakologen und Toxikologen. 25 und 26 September in München, Germany.

10-Alber, J., A. El-Sayed, C. Lämmler, A. A. Hassan, A. Vossen, U. Siebert 2004: Determination of species specific sequences of superoxide dismutase A encoding gene *sodA* and *chaperonin* 60 encoding gene *cpn60* for identification and phylogenetic analysis of *Streptococcus phocae*. *Veterinary Microbiology* 21;101(2):117-22.

11-Reinoso, E., El-Sayed A, Laemmler C, Bogni C, Zschoeck 2004: Pheno and genotyping of *Staph. aureus* isolated from human, bovine subclinical mastitis and food samples in Argentina. Poster in SAIB -XL Annual Meeting. ARGENTINE SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY. Poster - XL Reuni Annual. December 5-8, 2004. República Argentina. [www.saib.org.ar/paginas/html/saib-04.pdf](http://www.saib.org.ar/paginas/html/saib-04.pdf).



12-Alber, J., El-Sayed, A. et al. 2004: Species specific sequences of *chaperonin 60* and *superoxide dismutase* genes for identification of *Streptococcus uberis* and *Streptococcus parauberis*. J Vet Med B Infect Dis Vet Public Health. 51;(4):180-4.

13-Alber J, El-Sayed A, Laemmler C, Hassan AA, Weiss R, Zschock M. 2004. Multiplex polymerase chain reaction for identification and differentiation of *Streptococcus equi* subsp. *zooepidemicus* and *Streptococcus equi* subsp. *equi*. J Vet Med B Infect Dis Vet Public Health. 51(10):455-8.

14-El-Sayed A. and M.M. El-Hanafy 2005: Antibiotic exposures as a risk factor for emergences of multidrug resistance and failure of antimicrobial therapy. Eyp. Vet. Med. J.V.65, No.5 , pp 15-25.

15-Salem M., Zeid A., Hassan D, El-Sayed A, Zschoeck M. 2005. Studies on Johne's disease in Egyptian cattle. J Vet Med B Infect Dis Vet Public Health.; 52(3):134-7.

16-Alber, J., El-Sayed A, Estoepangestie S, Laemmler C, Zschock M. 2005. Dissemination of the superantigen encoding genes *seeL*, *seeM*, *szel* and *szem* in *Streptococcus equi* subsp. *equi* and *Streptococcus equi* subsp. *zooepidemicus*. Vet Microbiol. 10;109(1-2):135-41.

17-Younan, M., Estoepangestie AT, Cengiz M, Alber J, El-Sayed A, Lammler C. 2005: Identification and molecular characterization of *Streptococcus equi* subsp. *zooepidemicus* isolated from camels (*Camelus dromedarius*) and camel milk in Kenya and Somalia. J Vet Med B Infect Dis Vet Public Health. 52(3):142-6.

18-El-Sayed A., Jäger, J., Bönner, B., Redmann, T. and Kaleta E.F. 2005: The seeds of *Nigella sativa* as a feed additive to male layer-type chicks: lack of hepato- and nephrotoxicity and failure of immunomodulation following vaccination with *paramyxovirus* type 2 and 3 only minor efficacy on spontaneous *Eimeria tenella* coccidiosis. Archiv für Geflügelkunde 69 (1) pp 27-34.

19-El-Sayed A, Alber J, Lammler C, Bonner B, Huhn A, Kaleta EF, Zschock M. 2005. PCR-based detection of genes encoding virulence determinants in *Staphylococcus aureus* from birds. J Vet Med B Infect Dis Vet Public Health. 2005 Feb;52(1):38-44.

20-Akineden O, Hassan AA, Alber J, El-Sayed A, Estoepangestie AT, Lammler C, Weiss R, Siebert U. 2005. Phenotypic and genotypic properties of *Streptococcus equi* subsp. *zooepidemicus* isolated from harbor seals (*Phoca vitulina*) from the German North Sea during the phocine distemper outbreak in 2002. Vet Microbiol. 30;110(1-2):147-52.

21-Amr El-Sayed, Joachim Alber, Christoph Laemmler, Sybille Jaeger, Wilfried Wolter, Hugo Castaneda 2006: Comparative study on genotypic properties of *Staph. aureus* isolated from clinical and subclinical mastitis in Mexico. Vet.Mex. 37, V.2, pp 165-179.

22-El-Sayed A., Alber J, Lammler C, Abdulmawjood A, Zschock M, Hugo Castaneda V. 2006. Comparative sequence analysis of spa gene of *Staphylococcus aureus* isolated from bovine mastitis: characterization of an unusual spa gene variant. J Dairy Res. 73(3):322-7.

23-El-Hanafy, M.M and A. El-Sayed 2006: Clinical, Biochemical and Hemostatic Adverse Reactions In Young, Middle Aged and Geriatric Horses In Consequence of Their Use In Anti-Tetanic Sera Production. Vet. Med. J. Giza. Vol.54, N,o.4: 759-768.

24- El-Sayed, A. and W. Awad:2006. Comparison of *Staphylococcus aureus* genotypes isolated from clinical and subclinical mastitic cows in Egypt. Eyp. J. Vet. Med. Assoc. 66, 4: 225-240.

25- El-Sayed, A., Ahmed, S. and W. Awad. 2007. Do camels (*Camelus dromedarius*) play an epidemiological role in the spread of Shiga Toxin producing *Escherichia coli* (STEC) infection? Trop Anim Health Prod, Dec..2007

26- Awad, W.S., Nadra-Elwgoud, M.I. Abdou and El-Sayed, A.A 2008. Diagnosis and Treatment of Bovine, Ovine and Equine Dermatophilosis. J. App. Sc. Res., 4: 367-374.

27- El-Sayed,A., Natur, S., Wolter, W., Zschöck, M. and Hassan, A. A., 2008. Genotyping of mycobacterium avium subsp. Paratuberculosis isolates based on mycobacterial interspersed repetitive units (MIRU) methods. XXV Jubilee World Buiatrics Congress, Juli 6-11, Budapest, Hungary, 2008.

28- Hassan, A. A., Natur, S., El-Sayed,A., Wolter, W. and M. Zschöck.2008. Detection of Mycobacterium avium subsp.paratuberculosis in Manure,environmental samples and milk filters of dairy herds. XXV Jubilee World Buiatrics Congress, Juli 6-11, Budapest, Hungary, 2008.

29-Reinoso EB, El-Sayed A, Lammler C, Bogni C, Zschock M. 2008. Genotyping of *Staphylococcus aureus* isolated from humans, bovine subclinical mastitis and food samples in Argentina. Microbiol Res. Microbiological Research 163, 314—322.

30- El-Sayed A, Hassan AA, Natour S, Abdulmawjood A, Bülte M, Wolter W, Zschöck M. 2009. Evaluation of three molecular methods of repetitive element loci for differentiation of Mycobacterium avium subsp. paratuberculosis (MAP). J. Microbiol. 2009 Jun;47(3):253-9. Epub 2009 Jun 26.

31- Bastawecy, I., El-Sayed A., Mohammed A., Abdel Samee, A., and A. Fayed 2009. Rapid diagnosis of foot and mouth disease in acute and carrier states. Egyptian Journal of comparative pathology and clinical pathology. 22, 155-173.

32- El-Sayed, Amr, Awad, Walid, Fayed, Adel, L., Hamann, Hans-Peter, Michael Zschöck. 2010 Epidemiological study of avian influenza among Egyptian pigs. CDC, issue April 2010.

33- El-Sayed, A.; Fayed, A.; Awad, W.S. and Zschöck, M. 2010. Avian Influenza (H5N1) infections in Egypt. Journal of Applied Sciences Research, 6(11): 1752-1758.

34- Hugo Castañeda Vázquez, Sybille Jäger, Wilfried Wolter, Michael Zschöck, Martha Alicia Castañeda Vazquez and Amr El Sayed. 2011. Genotyping of *Staphylococcus aureus* isolated from dairy herds in Mexico. Revista Científica, FCV-LUZ / Vol. XXI, N° 4, 308 - 316, 2011

35- Michael Zschöck, Amr El-Sayed, Nawara Eissa, Christoph Lämmler, Hugo Castañeda-Vazquez. 2011. Penicillin G and oxacillin resistance in *Staphylococcus aureus* strains isolated from bovine subclinical mastitis. Vet. Méx., 42 (3).

36- Castañeda, V., Jäger S., Wolter W., Zschöck M., Castañeda V.A, El-Sayed, .2011 Importance of *Staphylococcus aureus* enterotoxins and genotypic relationship in bovine mastitis in dairy herds of western Mexico. Vet.Mex. in press.

37-Castañeda Vázquez Hugo, Jäger Sybille , Wolter Wilfried, Zschöck Michael, Castañeda Vazquez Martha Alicia, El-Sayed, Amr.2011. Monitoring main mastitis pathogens in Mexico, journal of Veterinaria Mexico. in press

### **Papers under publication**

1-El-Sayed,A., Hassan, A. A., Natur, S., Abdulmawjood, A., Wolter, W., Bülte, M.and M. Zschöck. Evaluation of molecular approach for differentiating *Mycobacterium avium* subsp. *paratuberculosis* based on repetitive elements. Journal of Microbiology, submitted for publication.

2-Natur, S., El-Sayed, A., Hassan, A. and M.. Zschöck. Genotyping of *Mycobacterium avium* subsp. *hominissuis* strains isolated from pigs based on repetitive elements. Submitted for publication..

3- Hassan, A. A., El-Sayed, A., Natur, S., Abdulmawjood, A., Wolter, W., Bülte, M. and M. Zschöck. Molecular approach for differentiating *Mycobacterium avium* subsp. *Paratuberculosis* isolated from environmental samples. Submitted for publication.

4- Zschöck, M., El-Sayed, A., Eissa, N., Castañeda- V., H. and C. Lämmler Penicillin G and Oxacillin Resistance in *Staphylococcus aureus* strains isolated from bovine subclinical mastitis. Submitted for publication.

5- Amr El-Sayed, Abdel Bary Prince, Ahmed Fawzy, Lamia Omar, Adel Abdel Azeem, Mohammed Salem and Michael Zschöck: Studies on Avian Influenza in Egypt. Submitted for publication.

## Genetic sequences submitted to gene bank

### 1-AM412306

Streptococcus equi subsp. ruminatorum partial cpn60 gene for chaperonin 60, type strain CECT 5772T  
gi|118441601|emb|AM412306.1|[118441601]

### 2-AM408496

Streptococcus equi subsp. ruminatorum partial sodA gene for manganese-dependent superoxide dismutase, strain CECT 5772  
gi|116633892|emb|AM408496.1|[116633892]

### 3-AJ851826

Streptococcus equi subsp. zooepidemicus szeM gene for exotoxin M  
gi|55163177|emb|AJ851826.1|[55163177]

### 4-AJ851369

Streptococcus equi subsp. zooepidemicus szeL gene for exotoxin L  
gi|54649884|emb|AJ851369.1|[54649884]



5-AJ715480

Streptococcus equi subsp. zooepidemicus partial 16S rRNA gene, isolate 122  
gi|47496500|emb|AJ715480.1|[47496500]

6-AJ704861

Streptococcus equi subsp. zooepidemicus 16S-23S rRNA intergenic spacer region, strain 122 gi|47169658|emb|AJ704861.1|[47169658]

7-AJ583528

Streptococcus equi subsp. equi seeM gene for exotoxin M  
gi|35757851|emb|AJ583528.1|[35757851]

8-AJ583527

Streptococcus equi subsp. equi seeL gene for exotoxin L  
gi|35757849|emb|AJ583527.1|[35757849]

9-AJ606381

Staphylococcus aureus partial spa gene for protein A, strain M3  
gi|38322947|emb|AJ606381.1|[38322947]

10-AJ606380

Staphylococcus aureus partial spa gene for protein A, strain M2  
gi|38322945|emb|AJ606380.1|[38322945]

11-AJ606379

Staphylococcus aureus partial spa gene for protein A, strain M1  
gi|38322943|emb|AJ606379.1|[38322943]

12-AJ555624

Streptococcus phocae partial cpn60 gene for chaperonin 60, strain NCTC 12719 gi|29786362|emb|AJ555624.1|[29786362]

13-AJ547799

Streptococcus phocae partial sodA gene for manganese-dependent superoxide dismutase gi|28564472|emb|AJ547799.1|[28564472]

14-AJ544723

Streptococcus parauberis partial sodA gene for manganese-dependent superoxide dismutase gi|28460636|emb|AJ544723.1|[28460636]

15-AJ544590

Streptococcus uberis partial sodA gene for manganese-dependent superoxide dismutase gi|28412515|emb|AJ544590.1|[28412515]

16-AJ829762

Staphylococcus aureus subsp. aureus partial spa gene for protein A gi|51965169|emb|AJ829762.1|[51965169]

17-AJ413274

Bacteriophage Nil2 proviral n gene, ORF22, ci gene, cro gene, cii gene, ORF53, o gene, p gene, ninA gene, ORF29, ORF30, ORF31, ninB gene, ORF175, ninE gene, ORF23, ORF57, antA gene, antB gene, roi gene, ninG gene, ninI gene, q gene, stx2A gene, stx2B gene, ileZ gene, argN gene and argO gene gi |23343450|emb|AJ413274.1| [23343450]

18-AM072972

Bacteriophage Lahn2 ninA gene, ORF69, ORF71, ORF57, ORF60, ORF138, ORF200, ninE gene, ORF22, ant gene, roi gene, ninG gene, ninH gene, q gene, ileZ gene, argN gene and argO gene

19-M051322

Bacteriophage Nil3 NinA gene, tR2 gene, ORF29, ORF30, ORF31, ninB gene, ninE gene, ORF13, ORF350, ORF51, roi gene, ninG gene, ninH gene, q gene, tRNA-Ile gene, tRNA-Arg gene and tRNA-Arg gene gi|71467688|emb|AM051322.1

20-AJ413276

Bacteriophage Lahn3 proviral ninA gene (partial), ninB gene, ORF175, ninE gene, ninF gene and ninG gene (partial)

21-AJ413275

Bacteriophage Lahn1 proviral ninA gene (partial), ORF92, ORF71, ORF78, ninB gene, ORF175, ninE gene, ORF13, ORF350, ORF51, roi gene, ninG gene, ninH gene, q gene, stx1A gene and stx1B gene (partial) gi|23343476|emb|AJ413275.1|[23343476]

22-AM945538

Streptococcus equi subsp. zooepidemicus partial sodA gene for manganese-dependent superoxide dismutase, strain 631. gi|169807652|emb|AM945538.1|[169807652]

23-AM496019

Streptococcus equi subsp. ruminatorum partial rpoB gene for RNA Polymerase beta subunit, strain CECT  
5772T.gi|126632267|emb|AM496019.1|[126632267]