

CURRICULUM VITAE

MOHAMMED A. ALI, DVM, MS

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EDUCATION

- Master of Veterinary Science (MVSc), Forensic Medicine and Toxicology, Effect of Toxic interaction between Oxytetracycline and Cadmium in broilers 2006, College of Veterinary Medicine, Assiut University, Egypt
- Bachelor of Veterinary Medicine (BVSc /DVM), 2001 College of Veterinary Medicine, Assiut University, Egypt.

WORK EXPERIENCE

- Licensed Veterinarians 2002- Present.
- Graduate Teaching and research assistant Assiut University 2001-2005.
- Assistant lecturer and research scientist Assiut University 2006-Present.

RESEARCH EXPERIENCE:

Virginia Tech

- 1- Helped in establishment of enhanced gene expression system in *Ochrobactrum*, *Salmonella* and *Bartonella*. (pNS, pNS2 and pNS3 vectors)
- 2- Helped in creating improved expression vector for *Haemophilus spp.*
- 3- Part of the team created Recombinant *Salmonella choleraesuis* SC54 vaccine expressing Porcine Respiratory and Reproductive Syndrome Virus (PRSSV).
- 4- Enhancement of heterologous gene expression in Prokaryotes using tandem fusion tag, RNA stem-loop, UP element and Antitermination factor.
- 5- Helped in creating Bioluminescence *Salmonella* and *Ochrobactrum* expressing Lux operon (*luxCDABE*) for direct continuous monitoring of infection in mice model.
- 6- Helped establishment of Gain of Function model (*O. anthropi* soil bacterium) to test *Brucella* and other intracellular pathogens putative virulence genes.
- 7- Helped creating Tandem Fusion tag that forms RNA stem-loop for enhancement of expression, purification and detection of heterologous genes.

- 8- Helped in creating Broad-Host range reporter vectors (GFP, RFP, LacZ, Lux) for screening of promoter activity in Gram- negative bacteria.
- 9- Helped in gain of function study of *B. suis* Cyclic Beta 1-2 glucan synthetase and Alkyl hydroperoxidase C &D in *O. anthrop.*

Assiut University

- 1- Established a model for studying interaction of heavy metal (Cadmium Chloride) and antibiotics (Oxytetracycline).
- 2- Analysis of this interaction by using HPLC, Spectrophotometer, Ion Selective Electrode and Histopathology.
- 3- Detection of Mycotoxin specially (Alfatoxin B₁ and Aflatoxin G₁) by using TLC.

TEACHING EXPERIENCE

Lecturer (Instructor) - Department of Forensic medicine and Toxicology - Assiut University, Egypt- 2001- present. Teaching Forensic and Toxicology for 4th grade DVM students.

Research Training of Students

I have trained several graduate and undergraduate students in Forensic and toxicology Techniques.

AWARDS & HONORS

- 1- Best paper and research excellence the 12th Annual Research Symposium of The College of Veterinary Medicine December 10th & 12th, 2006. Assiut, Egypt.
- 2- Graduate Teaching Assistantship from the College of Veterinary medicine, Assiut University, 2002- Present.
- 3- Graduate Research Assistantship from the College of Veterinary medicine, Assiut University, 2001- Present.
- 4- Distinction & Third Rank Award, Faculty of Veterinary Medicine, Assiut University 2001 Best presentation and best poster 2001, Fish Diseases Faculty of Vet. Med., Assiut University.

INTERNATIONAL EXPERIENCE

- Intensive Molecular Biology Techniques training program (Virginia Tech, USA, 2005).
- Intensive workshop on excellence of Teaching (Egypt, October 2004).
- Intensive workshop on preparation of an Excellent Teacher (Egypt, October 2002).
- Advanced workshop on preparation of a leadership activities (Egypt, November 2001).
- Training in Veterinary Microbiology in Pendik Institute (Turkey, 1998).

BETA TESTER

Before marketing Evaluation

- 1- The GenElute™ Five-minute plasmid Miniprep Kit. 2005 Sigma-Aldrich, USA

PRESENTATIONS/ABSTRACT: REGIONAL

1. **MOHAMMED ALI**, MOHAMED SELEEM, M.W. ABD AL-AZEEM, STEPHEN M. BOYLE, GERHARDT G. SCHURIG, AND NAMMALWAR SRIRANGANATHAN.. Vector development for expression of foreign proteins in *Brucella* and other related species. The 12th Annual Research Symposium of the College of Veterinary Medicine December 10th-12th, 2006. Assiut, Egypt.
2. **MOHAMMED ALI**, MOHAMED SELEEM, M.W. ABD AL-AZEEM, STEPHEN M. BOYLE, GERHARDT G. SCHURIG, AND NAMMALWAR SRIRANGANATHAN. ENHACEMENT OF GENE EXPRESSION. The 12th Annual Research Symposium of the College of Veterinary Medicine December 10th & 12th, 2006. Assiut, Egypt.
3. **MOHAMMED ALI**, MOHAMED SELEEM, M.W. ABD AL-AZEEM, STEPHEN M. BOYLE, GERHARDT G. SCHURIG, AND NAMMALWAR SRIRANGANATHAN. TOOLS FOR ENHACEMENT OF GENE EXPRESSION IN PROKARYOTES the 12th Annual Research Symposium of college of Veterinary Medicine December 10th & 12th, 2006. Assiut, Egypt.

INTERNATIONAL

1. Alqublan, H., Seleem M. N., **MOHAMMED Ali**, S. M. Boyle and N. Sriranganathan. Turn off the light turn on the bug. The Southwest Virginia Science Forum. December 10, 2008, VA, USA.
2. H. Alqublan, M. Seleem, **MOHAMMED ALI**, S. M. Boyle and N. Sriranganathan. Turn of the light turn on the bug. Virginia-Maryland Regional College of Veterinary Medicine 20th Annual Research Symposium November 17th 2008. Blacksburg, VA. USA.
3. H. Alqublan, M. Seleem, **MOHAMMED ALI**, S. M. Boyle and N. Sriranganathan. Turn of the light turn on the bug. The 5th Annual Via Research Recognition Day, October 3rd 2008, VA, USA.
4. H. Alqublan, M. Seleem, **MOHAMMED ALI**, S. M. Boyle and N. Sriranganathan. Turn of the light turn on the bug. Dean's Forum on Infectious diseases. September 29, 2008, VA, USA.
5. H. Alqublan, M. Seleem, **MOHAMMED ALI**, N. Sriranganathan. Turn of the light turn on the bug. Outreach Now Conference. Virginia tech, September 8, 2008, VA, USA*.
6. MOHAMED SELEEM, **MOHAMMED ALI**, BISWARUP MUKHOPADHYAY, SHARON G. WITONSKY, GERHARDT G. SCHURIG STEPHEN M. BOYLE AND NAMMALWAR SRIRANGANATHAN. *Ochrobactrum anthropi*: a soil bacterium for studying *Brucella* virulence genes. Virginia-Maryland Regional College of Veterinary Medicine 18th Annual Research Symposium May 23rd 2006. Blacksburg, VA. USA.
7. MOHAMED SELEEM, **MOHAMMED ALI**, PARTHIBAN RAJASEKARAN, STEPHEN M. BOYLE AND NAMMALWAR SRIRANGANATHAN. High-level heterologous gene expression in *Ochrobactrum anthropi* using A-rich UP element. The 22nd Annual Research Symposium, graduate student assembly at Virginia Tech. March 29th, 2006. Blacksburg, VA.USA.
8. MOHAMED SELEEM, **MOHAMMED ALI**, M.W. ABD AL-AZEEM, STEPHEN M. BOYLE, GERHARDT G. SCHURIG, AND NAMMALWAR SRIRANGANATHAN. ENHACEMENT OF GENE EXPRESSION. American Society of Microbiology (ASM Virginia Branch) Annual Meeting November 4th & 5th 2005, Norfolk, VA. USA.
9. MOHAMED SELEEM, **MOHAMMED ALI**, M.W. ABD AL-AZEEM, STEPHEN M. BOYLE, GERHARDT G. SCHURIG, AND NAMMALWAR SRIRANGANATHAN. TOOLS FOR ENHACEMENT OF GENE EXPRESSION IN PROKARYOTES. The Second Annual Via Virginia College of Osteopathic Medicine (VCOM) Research Recognition Day Oct. 5th, 2005. Blacksburg, VA. USA

PUBLICATIONS

PUBLISHED

- 1- Seleem, M.N., M. Ali, S.M. Boyle and N. Sriranganathan. 2008. Reporter genes for real-time *in vivo* monitoring of *Ochrobactrum anthropi* infection. 286:1;124-9 “**FEMS Microbiological letters**”
- 2- Seleem, M.N., M. Ali, S.M. Boyle and N. Sriranganathan. 2008. Vectors for enhanced gene expression and protein purification in *Salmonella*. **421**: 95-8. “**GENE**”
- 3- Seleem, M.N., P. Rajasekaran, M. Ali, S.M. Boyle and N. Sriranganathan. Simple Method for Transformation of *Ochrobactrum anthropi*. **24**: 2111-2114. 2008. “**World Journal of Microbiology and Biotechnology**”
- 4- Seleem, M.N., M. Ali, S.M. Boyle, and N. Sriranganathan. Establishment of gene expression system in *Ochrobactrum* species. 2006, p. 6833-6836, Vol. 72, No. 10 “**Journal of Applied and Environmental Microbiology**”.
- 5- M.Ali, M.W.Abd Al-Azeem, M.N. Seleem, S. M.Boyle, Gerhardt G. Schurig and N. Sriranganathan. Vector development for expression of foreign proteins in *Brucella* and other related species.2006, p.313-327, Part 1 “**12th Scientific Congress Faculty of Veterinary Medicine, Assiut Univeristy**”
- 6- Seleem, M.N., M. Ali, M.W. ABD AL-AZEEM, S.M. Boyle, and N. Sriranganathan. High-level heterologous gene expression in *Ochrobactrum anthropi* using an A-rich UP element. 2007, 73(5):1123-7 “**Applied Microbiology and Biotechnology**”
- 7- Seleem, M.N., M. Ali, M.W. ABD AL-AZIM, S.M. Boyle, and N. Sriranganathan. Enhanced expression, detection and purification of recombinant protein using tandem fusion tags RNA stem loop. 2007," 75:1385-1392: "**Applied Microbiology and Biotechnology**."

IN-PRESS

1. Seleem, M.N, M. Ali, B. Mukhopadhyay, S. Witonsky, G. Schurig, S. Boyle and N. Sriranganathan. *Ochrobactrum anthropi*; a soil bacterium for studying *Brucella* virulence genes. “**FEMS Microbiological letters**”

IN-PREPERATION

- 1- Mohammed Ali, Effect of Toxic interaction between Oxytetracycline and Cadmium in broilers

REFERENCES:

Dr. Mohamed Seleem. Assistant Professor of Veterinary Microbiology, Purdue Veterinary Medicine
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