

# Curriculum Vitae

## Ashraf M. Ahmed (Professor of Molecular Bacteriology)

**Address:**

Department of Bacteriology, Mycology and Immunology  
Faculty of Veterinary Medicine  
Kafrelsheikh University  
Kafr EL-Sheikh 33516, Egypt  
Phone: +2 (0111)-8111488 Fax: +2 (047)-3231311  
Email: ashrafa5@yahoo.com  
Birthdate: September 28, 1968  
Nationality: Egyptian

**Scopus: H Index: 27 Total citations: 1885**  
<https://www.scopus.com/authid/detail.uri?authorId=7403428533>

**Google Scholar: H Index: 29 Total citations: 2296**  
<http://scholar.google.com.eg/citations?user=cHepN9IAAAAJ&hl=en>

**Researchgate RG score: 30.62**  
[https://www.researchgate.net/profile/Ashraf\\_Ahmed17](https://www.researchgate.net/profile/Ashraf_Ahmed17)

**Orcid:**  
<https://orcid.org/0000-0003-2852-7798>

**Publons:**  
<https://publons.com/researcher/2590220/ashraf-m-ahmed/>

### EDUCATION HISTORY

Degree	Date	Subjects/ Faculty	Univ./Country
Doctor of Philosophy (Ph.D.)	9/2005	<b>Molecular Bacteriology/</b> Graduate School of Biosphere Science	<b>Hiroshima Univ.</b> <b>Japan</b>
Master of Veterinary Science (M.V. Sc.)	6/1996	Bacteriology /Faculty of Veterinary Medicine	Tanta Univ. Egypt
Bachelor of Veterinary Science (B.V. Sc.)	2/1992	Faculty of Veterinary Medicine	Suez Canal Univ. Egypt

## POSTDOCTORAL FELLOWSHIPS

Date	Period	Provider	Type	Host
2014-2016	2-years	Japan Society for the Promotion of Science (JSPS)	Pathway to University Positions in Japan	Hiroshima University, Japan
2006-2008	2-years	Science (JSPS)	Standard	Japan

## EMPLOYMENT HISTORY

Position	Date	Specialization	Dep./Fac./Univ./Count.
Professor	11/2015-Till now	Molecular Bacteriology	Department of Bacteriology, Mycology and Immunology/ Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt
Associate Professor	10/2010-11/2015		
Assistant Professor	10/2005-10/2010		
Assistant Lecturer	8/1996-10/2005		
Demonstrator	10/1992-8/1996		

## TEACHING HISTORY

Date	Job	Courses	Students/Place
4/2008-8/2014	Assistant, Associate and Professor	1- General Bacteriology (Theoretical and Practical lessons) 2- Systematic Bacteriology (Theoretical and Practical lessons) 3-Bacterial Genetics (Theoretical and Practical lessons) 4- Immunology 5- Interdisciplinary Seminars	Undergraduate and Graduate Students/ Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt
10/1992-9/2001	Demonstrator and Assistant Lecturer	1- Microbiology (Practical lessons) 2- Bacterial Genetics (Practical lessons)	

## FIELD OF FINE SPECIALIZATION

Molecular Bacteriology and Food Microbiology

## RESEARCH INTERESTS

Genetic bases of antimicrobial resistance in foodborne pathogens, virulence genes, mobile genetic elements and biotechnology

## PROFESSIONAL EXPERIENCE

- I- Traditional Bacteriology Techniques:
  - Bacterial isolation and Biochemical identification
  - Serological identification
  - Antimicrobial sensitivity test and Pathogenicity tests
- II- Basic Molecular Techniques:
  - DNA isolation, Restriction enzymes

- Design primers and PCR  
DNA Hybridization
- III- Advanced Molecular Techniques:  
DNA Sequencing and BLAST analyses  
Gene cloning and expression  
Genome Mapping and Genotyping  
Bioinformatics and Phylogenetic Analysis

## **AWARDS/GRANTS**

- 1- Postdoctoral Fellowship (**Pathway to University Positions in Japan**) from August 2014 to August 2016 at Hiroshima University from Japan Society for the Promotion of Science (JSPS).
- 2- Selected by Marquis **Who's Who** Organization in 2012 edition.
- 3- Lab **Accreditation Project** Grant 2011-2014 (**350,000 US \$** for 18 months) funded by Ministry of Higher Education.
- 4- Young Research Grant Award 2010-2013 (**125,000 US \$** for 3 Years) funded by Science and Technology Development Fund (STDF), Ministry of Scientific Research, Egypt.
- 5- Lecturer Research Grant Award 2009 (2,000 US \$ for 6 months) funded by Kafr El-Sheikh University, Egypt.
- 6- Travel award (November 11-14, 2007) from **Food and Agriculture Organization** (FAO) of the United Nations to attend the 13<sup>th</sup> International Symposium for the World Association of Veterinary Laboratory Diagnosticians (Melbourne, Australia).
- 7- Postdoctoral Fellowship (**April 2006-March 2008**) at Hiroshima University from **Japan Society for the Promotion of Science (JSPS)**.
- 8- Outstanding Poster Award (April 27-29, 2005) from 5<sup>th</sup> international Symposium on Antimicrobial Agents and Resistance, Seoul, Korea.
- 9- **Doctoral Fellowship** (September 2001-September 2005) at Hiroshima University, Japan from government of Egypt.

## **LIST OF PUBLICATIONS**

### **A. PAPERS IN IMPACTED INTERNATIONAL JOURNALS**

- 1- Xedzro, C., Kimura, T., Shimamoto, T., **Ahmed, A.M.** and Shimamoto, T., 2023. Comparative molecular profiling of antimicrobial resistance and phylogenetic characterization of multidrug-resistant *Escherichia coli* isolated from meat sources in 2009 and 2021 in Japan. **International Journal of Food Microbiology**, 391, p.110146.
- 2- Gawish, M.F., **Ahmed, A.M.**, Torky, H.A, Shimamoto, T. (2021). Prevalence of extended-spectrum  $\beta$ -lactamase (ESBL)-producing *Salmonella enterica* from retail fishes in Egypt: A major threat to public health. **International Journal of Food Microbiology**, 351, 109268.
- 3- Adel, W.A., **Ahmed, A.M.**, Hegazy, Y., Torky, H.A., Shimamoto, T. (2021). High prevalence of esbl and plasmid-mediated quinolone resistance genes in

*Salmonella enterica* isolated from retail meats and slaughterhouses in Egypt. **Antibiotics**, 10(7), 881.

- 4- Meshref, A.M.E., Eldesoukey, I.E., Alouffi, A.S., Alrashedi, S.A., Osman, S.A. and **Ahmed, A.M.** (2021). Molecular Analysis of Antimicrobial Resistance among Enterobacteriaceae Isolated from Diarrhoeic Calves in Egypt. **Animals**, 11(6), p.1712.
- 5- Gawish, M.F., **Ahmed, A.M.**, Torky, H.A, Shimamoto, T. (2021). Prevalence of extended-spectrum  $\beta$ -lactamase (ESBL)-producing *Salmonella enterica* from retail fishes in Egypt: A major threat to public health. **International Journal of Food Microbiology**, 351, 109268.
- 6- Khalifa, H.O., Soliman, A.M., Saito, T., Kayama, S., Yu, L., Hisatsune, J., Sugai, M., Nariya, H., **Ahmed, A.M.**, Shimamoto, T. and Matsumoto, T., (2020). First report of foodborne *Klebsiella pneumoniae* co-harboring blaVIM-1, blaNDM-1, and mcr-9. **Antimicrobial Agents and Chemotherapy**, 64, pp.e00882-20
- 7- El-Tawab, A.A.A., **Ahmed, A.M.**, Nabih, A.M. and Saad, W.H. (2020). First characterization of class 1 integron in *Corynebacterium bovis* isolated from subclinical bovine mastitis. **Adv. Anim. Vet. Sci**, 8(5), pp.452-457.
- 8- Khalifa, O.H., Soliman A.M., **Ahmed A.M.**, Shimamoto T., Nariya, H., and Shimamoto T. (2019) High Prevalence of Antimicrobial Resistance in Gram-Negative Bacteria Isolated from Clinical Settings in Egypt: Recalling for Judicious Use of Conventional Antimicrobials in Developing Nations. **Microbial Drug Resistance** 25 (3), 371-385. (Impact factor 2.344).
- 9- Soliman, A. M., Saad, A. M., **Ahmed, A. M.**, Shimamoto, T., Nariya, H., and Shimamoto, T. (2018) Occurrence of *Salmonella* genomic island 1 (SGI1) in two African *Proteus mirabilis* strains isolated from diseased chicken flocks. **Infection, Genetics and Evolution**, 62, 8-10. (Impact factor 2.885).
- 10- Khalifa, O.H., Soliman A.M., **Ahmed A.M.**, Shimamoto T. and Shimamoto T. (2017) High Carbapenem Resistance in Clinical Gram-Negative Pathogens Isolated in Egypt. **Microbial Drug Resistance**, 23(7):838-844. (Impact factor 2.344).
- 11- Soliman, A. M., **Ahmed, A. M.**, Shimamoto, T., El-Domany, R. A., Nariya, H., & Shimamoto, T. (2017). First report in Africa of two clinical isolates of *Proteus mirabilis* carrying *Salmonella* genomic island (SGI1) variants, SGI1-PmABB and SGI1-W. **Infection, Genetics and Evolution**, 51, 132-137. (Impact factor 2.885).
- 12- Khalifa, O.H., **Ahmed A.M.**, Oreiby, A.F., Eid, A.M., Shimamoto T. and Shimamoto T. (2016) Characterisation of the plasmid-mediated colistin resistance gene *mcr-1* in *Escherichia coli* isolated from animals in Egypt. **International journal of antimicrobial agents** 47 (5), 413. (Impact factor 4.307).
- 13- Elnahriry S.S., Khalifa, O.H., Soliman A.M., **Ahmed A.M.**, Moustafa A.H., Shimamoto T. and Shimamoto T. (2016) Emergence of plasmid-mediated colistin resistance gene, *mcr-1*, in a clinical *Escherichia coli* isolate from Egypt. **Antimicrobial Agents and Chemotherapy** 60:3249-3250. (Impact factor 4.415).
- 14- Khalifa, O.H., Soliman A.M., **Ahmed A.M.**, Shimamoto T. and Shimamoto T.

- (2016) NDM-4- and NDM-5-Producing *Klebsiella pneumoniae* coinfection in a 6-month-old infant. **Antimicrobial Agents and Chemotherapy** 60:4416-4417. (Impact factor 4.415).
- 15- Soliman A.M., Khalifa, O.H., Ahmed A.M., Shimamoto T. and Shimamoto T. (2016) Emergence of an NDM-5-producing clinical *Escherichia coli* isolate in Egypt. **International Journal of Infectious Diseases** 48, 46-48. (Impact factor 2.229).
- 16- Ahmed A.M., Maruyama A., Khalifa, O.H., Shimamoto T. and Shimamoto T. (2015) Seafood as a reservoir of Gram-negative bacteria carrying integrons and antimicrobial resistance genes in Japan. **Biomedical and Environmental Sciences**, 28 (12), 924-926. (Impact factor 2.204).
- 17- Ahmed A.M., and Shimamoto T. (2015) Molecular characterization of multidrug-resistant *Shigella* spp. of food origin. **International Journal of Food Microbiology**, 194: 78–82.
- 18- Ahmed A.M., and Shimamoto T. (2015) Molecular analysis of multidrug resistance in shiga toxin-producing *Escherichia coli* O157:H7 isolated from meat and dairy products. **International Journal of Food Microbiology**, 193: 68–73. (Impact factor 3.339).
- 19- Ahmed A.M., Shimamoto T. and Shimamoto T. (2014) Characterization of integrons and resistance genes in multidrug-resistant *Salmonella enterica* isolated from meat and dairy products in Egypt. **International Journal of Food Microbiology**, 189: 39– 44. (Impact factor 3.339).
- 20- Ahmed A.M., and Shimamoto T. (2014) Isolation and molecular characterization of *Salmonella enterica*, *Escherichia coli* O157:H7 and *Shigella* spp. from meat and dairy products in Egypt. **International Journal of Food Microbiology**, 168–169: 57–62. (Impact factor 3.339).
- 21- Ahmed A.M., Shimamoto T. and Shimamoto T. (2013) Molecular characterization of multidrug-resistant avian pathogenic *Escherichia coli* isolated from septicemic broilers. **International Journal of Medical Microbiology**, 303: 475– 483. (Impact factor 3.339). (Impact factor 3.391).
- 22- Shimamoto T., Ahmed A.M., and Shimamoto T. (2013) A novel retron of *Vibrio parahaemolyticus* is closely related to retron-Vc95 of *Vibrio cholerae*. **Journal of Microbiology**, 51(3):323-328.
- 23- Ahmed A.M. and Shimamoto T. (2012) Genetic analysis of multiple antimicrobial resistance in *Salmonella* isolated from diseased broilers in Egypt. **Microbiology and Immunology**, 56 (4):254-261.
- 24- Ahmed A.M. and Shimamoto T. (2011) Molecular characterization of antimicrobial resistance in Gram-negative bacteria isolated from bovine mastitis in Egypt. **Microbiology and Immunology**, 55(5):318-327.
- 25- Ishida Y, Ahmed A.M., Mahfouz NB, Kimura T, El-Khodery SA, Moawad AA and Shimamoto T. (2010) Molecular Analysis of Antimicrobial Resistance in Gram-Negative Bacteria Isolated from Fish Farms in Egypt. **Journal of Veterinary Medical Science**, 72 (6):727-734.
- 26- Sato M, Ahmed A.M., Noda A, Watanabe H, Fukumoto Y and Shimamoto T. (2010) Isolation and molecular characterization of multidrug-resistant Gram-negative bacteria from imported flamingos in Japan. **Acta Vet. Scand.**, 51:46.

- 27- **Ahmed A.M.**, Shimabukuro H and Shimamoto T. (2009) Isolation and molecular characterization of multidrug-resistant strains of *Escherichia coli* and *Salmonella* from retail chicken meat in Japan. **Journal of Food Science**, 74: M405-M410.
- 28- **Ahmed A. M.**, Younis EE, Ishida Y and Shimamoto T. (2009) Genetic basis of multidrug resistance in *Salmonella enterica* serovars Enteritidis and Typhimurium isolated from diarrheic calves in Egypt. **Acta Tropica**, 111:144-149.
- 29- **Ahmed A.M.**, Younis EE, Osman SA, Ishida Y, El-Khodery SA and Shimamoto T. (2009) Genetic analysis of antimicrobial resistance in *Escherichia coli* isolated from diarrheic neonatal calves. **Veterinary Microbiology**, 136:397-402.
- 30- **Ahmed A.M.**, Ishida Y. and Shimamoto T. (2009) Molecular characterization of antimicrobial resistance in *Salmonella* isolated from animals in Japan. **Journal of Applied Microbiology**, 106 (2): 402-409.
- 31- Hussein AI, **Ahmed A.M.**, Sato M and Shimamoto T. (2009) Characterization of integrons and antimicrobial resistance genes in clinical isolates of Gram-negative bacteria from Palestinian hospitals. **Microbiology and Immunology**, (11):595-602.
- 32- Younis EE, **Ahmed A.M.**, El-Khodery SA, Osman SA, El-Naker YF. (2009) Molecular screening and risk factors of enterotoxigenic *Escherichia coli* and *Salmonella* spp. in diarrheic neonatal calves in Egypt. **Research in Veterinary Science**, 87: 373-379.
- 33- Hammad AM, **Ahmed A.M.**, Ishida Y and Shimamoto T (2008) First characterization and emergence of SHV-60 in raw milk of a healthy cow in Japan. **Journal of Veterinary Medical Science**, 70 (11):1269-1272.
- 34- **Ahmed A.M.** and Shimamoto T. (2008) Emergence of a cefepime- and ceftazidime-resistant *Citrobacter freundii* clinical isolate harbouring a novel chromosomally encoded AmpC beta-lactamase, CMY-37. **International Journal of Antimicrobial Agents** 32(3):256-261.
- 35- **Ahmed A.M.**, Motoi Y, Sato M, Maruyama A, Watanabe H, Fukumoto Y and Shimamoto T. (2007). Zoo animals as reservoirs of gram-negative bacteria harboring integrons and antimicrobial resistance genes. **Applied and Environmental Microbiology**, 73:6686-6690.
- 36- **Ahmed A.M.**, Hussein AI and Shimamoto T. (2007) *Proteus mirabilis* clinical isolate harbouring a new variant of *Salmonella* genomic island 1 containing the multiple antibiotic resistance region. **Journal of Antimicrobial Chemotherapy**, 59:184-190.
- 37- **Ahmed A.M.**, Kawamoto H, Inouye K, Hashiwata Y, Sakaki M, Seno M and Shimamoto T. (2006) Genetic characterization of multidrug resistance in *Shigella* spp. from Japan. **Journal of Medical Microbiology**, 55:1685-1691.
- 38- **Ahmed A.M.**, Kawaguchi F and Shimamoto T. (2006) Class 2 integrons in *Vibrio cholerae*. **Journal of Medical Microbiology**, 55:643-644.
- 39- **Ahmed A.M.**, Furuta K., Kawamoto H., Inoue K., Hashiwata Y. Sakaki M., Seno M. and Shimamoto T. (2005) Genomic analysis of a multidrug-resistant strain of enterohaemorrhagic *Escherichia coli* O157:H7 causing a family outbreak in Japan. **Journal of Medical Microbiology**, 54:867-872.
- 40- **Ahmed A.M.**, Furuta K., Shimomura K., Kawamoto H. and Shimamoto T. (2005) Characterization of a multidrug-resistant isolate of *Salmonella* Paratyphi B from Japan. **Journal of Antimicrobial Chemotherapy**, 56:250-250a.

- 41- **Ahmed A.M.**, Nakano H. and Shimamoto T. (2005) Molecular characterization of integrons in non-typhoid *Salmonella* serovars isolated in Japan: description of an unusual class 2 integron. **Journal of Antimicrobial Chemotherapy**, 55:371-374.
- 42- **Ahmed A.M.**, Miyoshi S., Shinoda S. and Shimamoto T. (2005) Molecular characterization of a multidrug-resistant strain of enteroinvasive *Escherichia coli* O164 isolated in Japan. **Journal of Medical Microbiology**, 54:273-278.
- 43- **Ahmed A.M.**, Shinoda S. and Shimamoto T. (2005) A variant type of *Vibrio cholerae* SXT element in a multidrug-resistant strain of *Vibrio fluvialis*. **FEMS Microbiology Letters**, 242:241-247.
- 44- **Ahmed A.M.**, Nakano H. and Shimamoto T. (2004) The first characterization of extended-spectrum  $\beta$ -lactamase-producing *Salmonella* in Japan. **Journal of Antimicrobial Chemotherapy**, 54:283-284.
- 45- **Ahmed A.M.**, Nakagawa T., Arakawa E., Ramamurthy T., Shinoda S. and Shimamoto T. (2004) New aminoglycoside acetyltransferase gene, *aac(3)-Id*, in a class 1 integron from a multiresistant strain of *Vibrio fluvialis* isolated from an infant aged 6 months. **Journal of Antimicrobial Chemotherapy**, 53:947-951.
- 46- **Ahmed A.M.** and Shimamoto T. (2004) A plasmid-encoded class 1 integron carrying *sat*, a putative phosphoserine phosphatase gene and *aadA2* from enterotoxigenic *Escherichia coli* O159 isolated in Japan. **FEMS Microbiology Letters**, 235:243-248.
- 47- **Ahmed A.M.** and Shimamoto T. (2003) msDNA-St85, a multicopy single-stranded DNA isolated from *Salmonella enterica* serovar Typhimurium LT2 with the genomic analysis of its retron. **FEMS Microbiology Letters**, 224:291-297.

## **B- PAPERS AND POSTERS IN INTERNATIONAL CONFERENCES**

1. Shimamoto T., **Ahmed A.M.**, Maruyama A. and Shimamoto T. (2015) Characterization of integrons and antimicrobial resistance genes in Gram-negative bacteria isolated from seafood in Japan: identification of a novel  $\beta$ -lactamase-encoding gene, *bla<sub>CMY-39</sub>*. **World Congress and Exhibition on Antibiotics. September 14-16, 2015 (Las Vegas, USA)**.
2. **Ahmed A.M.** and Shimamoto T. (2014) Food Security and Food Safety in Asia". **7th International Symposium on Food and Environment (Hiroshima, Japan)**.
3. **Ahmed A.M.** and Shimamoto T. (2008) Isolation and molecular characterization of multidrug resistant strains of *Escherichia coli* and *Salmonella* from retail chicken meat in Japan. **1<sup>st</sup> ASM Conference on Antimicrobial Resistance in Zoonotic Bacteria and Foodborne Pathogens (Copenhagen, Denmark)**.
4. **Ahmed A.M.**, Motoi Y, Sato M, Maruyama A, Watanabe H, Fukumoto Y and Shimamoto T. (2007) Zoo animals as a potential reservoir of gram-negative bacteria harboring integrons and antimicrobial resistance genes. **13<sup>th</sup> International Symposium for the World Association of Veterinary Laboratory Diagnosticians (Melbourne, Australia)**.
5. **Ahmed A.M.**, Kawamoto H, Inouye K, Hashiwata Y, Sakaki M, Seno M and Shimamoto T. (2006) Molecular characterization of multidrug resistance in

*Shigella* spp. from Japan. **10<sup>th</sup> Western Pacific Congress on Chemotherapy and Infectious Diseases (Fukuoka, Japan).**

6. **Ahmed A.M.**, Kawaguchi F and Shimamoto T. (2006) Class 2 integrons in *Vibrio cholerae*. **The 41<sup>th</sup> Joint Conference of US-Japan cooperative medical science program cholera and related diarrheal diseases panel (Gifu, Japan).**
7. **Ahmed A.M.**, Furuta K, Shimomura K, Kasama Y. and Shimamoto T. (2005) Characterization of antimicrobial resistance mechanisms of *Shigella* spp. isolated from humans in Hiroshima, Japan. **The 40<sup>th</sup> Joint Conference of US-Japan cooperative medical science program cholera and related diarrheal diseases panel (Boston, USA).**
8. **Ahmed A.M.**, Furuta K., Kawamoto H., Inoue K., Hashiwata Y. Sakaki M., Seno M. and Shimamoto T. (2005) Molecular characterization of a multidrug-resistant strain of enterohaemorrhagic *Escherichia coli* O157:H7 causing a family outbreak in Japan. **5<sup>th</sup> international Symposium on Antimicrobial Agents and Resistance (Seoul, Korea).**
9. **Ahmed A.M.**, Nakano H and Shimamoto T. (2005) Prevalence and characterization of integrons in non-typhoid *Salmonella* serovars isolated in Japan: description of an unusual class 2 integron. **5<sup>th</sup> international Symposium on Antimicrobial Agents and Resistance (Seoul, Korea).**
10. **Ahmed A.M.**, Shinoda S. and Shimamoto T. (2004) Characterization of a variant type of *Vibrio cholerae* SXT element in a multidrug-resistant strain of *Vibrio fluvialis*. **The 39<sup>th</sup> Joint Conference of US-Japan cooperative medical science program cholera and related diarrheal diseases panel (Kyoto, Japan).**
11. **Ahmed A.M.**, Miyoshi S., Shinoda S. and Shimamoto T. (2004) Molecular characterization of a multidrug-resistant strain of enteroinvasive *Escherichia coli* O164 isolated in Japan. **The 7<sup>th</sup> Korea-Japan International Symposium on Microbiology (Seoul, Korea).**
12. **Ahmed A.M.**, Nakagawa, T., Arakawa, E., Ramamurthy, T., Shinoda, S. and Shimamoto T. (2003) A new aminoglycoside acetyltransferase gene, *aac(3)-Id* and *aadA7* in class 1 integron from a multiresistant strain of *Vibrio fluvialis* isolated from a six-month infant with a cholera-like diarrhea in India. **The 26<sup>th</sup> Annual Meeting of the Molecular Biology Society of Japan (Kobe, Japan).**
13. **Ahmed A.M.**, Nakagawa, T., Arakawa, E., Ramamurthy, T., Shinoda, S. and Shimamoto T. (2003) Class I integrons and SXT elements in *Vibrio cholerae* non-O1/non-O139 and *Vibrio fluvialis* isolated from 2001 to 2002 in India: The identification of a novel aminoglycoside acetyltransferase gene, *aac(3)-Id*. **The 38<sup>th</sup> Joint Conference of US-Japan cooperative medical science program cholera and related diarrheal diseases panel (Washington DC, USA).**
14. **Ahmed A.M.** and Shimamoto T. (2002) A novel multicopy single-stranded DNA (msDNA) isolated from *Salmonella enterica* serovar Typhimurium. **The 6<sup>th</sup> Japan-Korea International Symposium on Microbiology (Suita, Japan).**
15. Shimamoto T., Kageyama N., Shimamoto T., Fujimura M, **Ahmed A.M.** and Kawakami H. (2002) Distribution of retron among serogroups of *Vibrio cholerae* and its integration into the chromosome. **The 2002 Meeting on Molecular Genetics of Bacteria & Phages (Cold Spring Harbor, NY, USA).**

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