

**CURRICULUM VITAE**

**\*Full Name:** Dr. Akeel Hussein Ali AL-Assie  
**Place and date of birth:** Iraq- Baghdad, in 25/10/1959  
**Sex:** Male, **Religion:** Muslim, **Nationality:** Iraqi  
**Status:** Married .



**\*General specialization:** Molecular Biology  
**Specific field:** Genetic Markers (*DNA Markers*)  
**Scientific degree:** Professor.  
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**\*Academic degree awarded:**

- **B.Sc. *Biology***/College of Education/University of Mousel – Iraq 1982.
- **M.Sc. *Genetic Engineering***/College of Education (Ibn AL-Haitham)/University of Baghdad – Iraq 1996.
- **Ph.D. *Molecular Biology***/College of Education (Ibn AL- Haitham)/University of Baghdad–Iraq 2002.
- **The scientific title:**

The scientific title	year
Assistant Lecturer	1996
Lecturer	2003
Assistant Professor	2006
Professor	2013

**\*Positions:**

1. Academic staff of Biology Dept./College of Science 2003.
2. Decisionor of Biology Dept./College of Science 2004 – 2005.
3. Dean Assist. For Scientific Affairs. 2005-2006.
4. Dean Assist. For Administrative Affairs. 2006-2007.
5. Member within Edit Broad of Tikrit Pure Science Journal, 2005 -2019
6. Representative of Tikrit University in Iraqi team of Forensic DNA 2009-2011.
7. Head of Edit Broad of Tikrit Dents Journal, 2009 - 2010.
8. Director of Central Labs. Department of Tikrit University 2011 -2020.
9. Head of Department of Medical Laboratories Technologies at Al-Kitab University 2021-2023.
10. Pensioner 9 April 2024

**\*Supervising of Postgraduate students**

1. Supervision of Master students: 46
2. Supervision of PhD students: 37

**\*Gratitude and appreciation**

- More than 130 grateful.

**\*Teaching Experience:**

- |                         |                                   |
|-------------------------|-----------------------------------|
| 1. Molecular Biology.   | For undergraduate & postgraduate. |
| 2. Genetic Markers.     | For postgraduate.                 |
| 3. Biodiversity.        | For postgraduate.                 |
| 4. Genetic engineering. | For undergraduate & postgraduate. |
| 5. Biotechnology.       | For undergraduate & postgraduate. |

**\*Publications:****Human & animals:**

1. A Modified Method for Mitochondrial Purification and DNA Isolation from Muscles. Tikrit Pure Sci. J. No.1, 2005.
2. Differentiation between Type 1 and Type 2 Diabetes Patients Using Some Immunological and Biochemical Markers. Medicine J. Tikrit, 2011.
3. Simple salting – out method for genomic DNA extraction from whole blood. Tikrit J. of Pure Sci. Vol.16 No.(2) 2011.
4. Cytogenetic Study of Azoospermia and Sever Oligospermia in Al-Anbar Governorate. Tikrit J. of Pure Sci. Vol.16 No. (2) 2011.
5. A Molecular Study of Azoospermia & Severe Oligospermia in a Sample of infertile Males Al-Anbar Governorate. eng.&tech. gournal, vol.30,No. (12) p2116-2124, 2012.
6. Rapid Method for Screening of Galactosemia And Galactose-1-Phosphate Uridyltransferase GALT Enzyme Deficiency by Measuring of Galactose-1-Phosphate in New Borne. ProceeDeeng of the 2<sup>nd</sup> Scientific National Community Medicine Conference in Mosul, 25-26 April 2012.
7. Study Biochemical effect of Diabetes type II (NIDDM) on Homocysteine level. Proceeding of the 2<sup>ed</sup> Scientific Conference – Science College – Tikrit University, 25-26 Sep. 2012.
8. Determination of The Genetic Variability of GALT Gene For New Born With Galactosemia In Nineveh Province J. RAF. Sci., Vol. 24, No.3pp28- 38, 2013.
9. Polymorphism of CYP17 for Polycystic Ovarian Syndrome in Women of Salah Al-Din Provence/ Iraq. J. of Biotech. Research Center, vol.8, No.1- 2014.
10. Descriptive & Biochemical Study of Women with Polycystic Ovary Syndrome PCOS in Salah Al-Deen Province. Tikrit J. of Pure Sci. Vol.19 No. (2) pp31-38, 2014.
11. Detection of the -1082 G/A Promoter Polymorphism of interleukin-10 gene by ARMS-PCR technique among some Iraq Rheumatoid Arthritis patients. Raf. J. Sci., Vol. 25, No.3, pp. 10-15, 2014.
12. Analysis of common mutation for GALT gene in newborns with galactosemia Nineveh governorate. J. of Biotech. Research Center, (Special edition) Vol. 8 No. 1, 2014.

13. A study of the -174 G/C promoter polymorphism of interleukin-6 gene and its effect on interleukin-6 serum level for some rheumatoid arthritis patients. *Iraqi J. of Biotechnology*, 2015, Vol. 14, No.2, 214-227.
14. Relationship between lipoprotein lipase gene Polymorphisms and lipid metabolism in Atherosclerosis patients in Salahiddin province. *Iraqi Journal of Cancer and Medical Genetics*. Vol. 9 – No 1 – 2016, pp 111-119.
15. Association between the-308 G/A Promoter Polymorphism of the Tumor Necrosis Factor-Alpha Gene and Some Rheumatoid Arthritis Patients in Iraqi Population. *International Students Science Conference 5-6 May 2017, Izmir – Turkey*
16. Purification and Determination the Molecular Weight and Study the Kinetic Properties of Glucose -6-Phosphate Dehydrogenase from Diabetes Patients. *Adv Biochem Biotechcnol*, an open access journal Vol. 2017; Issue 05. DOI: 10.29011/2574-7258.000039.
17. Corresponding of Genetic polymorphism the apolipoprotein B R3500Q gene mutation with possible Familial Hypercholesterolemia (FH) pateints in Sulaymaniyah. *Tikrit J. of Pure Sci.* 23 (10) 2018.
18. Effected of Apelin protein levels and it's polymorphism rs2235306in type 2 diabetes. 1<sup>st</sup> international & 3<sup>rd</sup> scientific Conf. of College of Sci. Tikrit Uni. 17-18, Dec.2018.
19. Hypercholesterolemia as a risk factor for coronary heart disease. *J. of University f Anbar for Pure Science : Vol.12 : No.3: 2018*
20. Partial purification of Superoxide dismutase (SOD) separated from serum of  $\beta$ .Thalassemia miner patients in Kirkuk city and study it's kinetic properties and molecular weight. 1<sup>st</sup> international & 3<sup>rd</sup> scientific Conf. of College of Sci. Tikrit Uni.17-18, Dec.2018.
21. Assessment study of leptin levels and leptin receptor gene in the patients of cardiac disease in Tikrit. *Plant Archives* Vol. 19 No. 1, 2019 pp. 1919-1925.
22. Using PCR & RFLP techniques to detect the relationship between mutations (C677T & A1298C) of MTHFR gene and homocysteine level of heart patients. *Annals of Tropical Medicine & Public Health* August 2019 Vol. 22(I).
23. Estimating the Level of Some Hormones (Follicle-stimulating Hormone and Luteinizing Hormone in Females and Testosterone in Males) in Patients with Leukemia in Kirkuk City. *The J. of Res. on the Lep.* April 2020, Vol. 51 (2): 247-255.
24. A physiological and molecular study of leukemia patients in Kirkuk city. *Annals of Tropical Medicine and Public Health* 23 (10)
25. The Relationship between Some Electrolyte Levels And MTHFR C667T Gene Polymorphism In Premenopausal And Postmenopausal Osteoporosis Iraqi Women. *Eurasia J Biosci* 14, 545-551 (2020).
26. The association of T45G polymorphism in the adiponectin gene with some hormonal parameters in Iraqi women with polycystic ovary syndrome. *Medico-Legal Update*. Volume 20, Number 2 April-June 2020.
27. Effects of sampling, DNA amount and Reduced volume of AmpFLSTR Identifiler Plus kit on STR profile. The 2<sup>nd</sup> International and 4<sup>th</sup> Scientific Conference of Science College/ Tikrit University 24-25 Nov. 2020:63-70.
28. Detection of polymorphism for Tumor Necrosis Factor-Alpha (-308 G/A) Gene Polymorphism for Rheumatoid Arthritis Patients (in Sherqat city). The 2<sup>nd</sup> International and 4<sup>th</sup> Scientific Conference of Science College/ Tikrit University 24-25 Nov. 2020:9-15.
29. Some Biological Measurements for Al-Himeri *Carasobarbus luteus* and Al-Kishni *Planiliza* abu from Tiger River within Al-Sharqat and Samarra regions/ Salah-Al-Deen/Iraq. *Journal of Kirkuk University for Agricultural Sciences*, 2020, Volume 11, Issue 1, Pages 31-46.
30. Effect of Growth Differentiation Factor GDF-15 ,Leucine Amino Peptides LAP and Some Biomarker on Patient with Hypertension. *Annals of R.S.C.B.*, Vol. 25, Issue 4, 2021, Pages. 11044 – 11055.

31. Intronic SNPs and Genetic Diseases: A Review. International Journal for Research in Applied Sciences and Biotechnology, Volume-8, Issue-2 (March 2021), <https://doi.org/10.31033/ijrasb.8.2.36>.
32. Analysis of allele frequencies of the selected 15 autosomal STR markers in Tikrit population – Iraq with comparison to Middle Eastern, African, and Europeans. AsPac J. Mol. Biol. Biotechnol. 2021 Vol. 29 (2): 75-84.
33. Study of red rust flour beetle (*Tribolium castaneum*) genetic variation using RAPD markers. Journal of Integrative Agriculture 2022, 21-4: 1–12.
34. Estimate of gene expression of Tchsp18.3 in *Tribolium Castaneum* red rust flour beetles using Real-Time PCR technology. Developmental Biology Journal 2022, 486 (6): 1–13.
35. Extraction, purification and determine molecular weight of leucine amino peptidase (LAP) from patients with hypertension. 1st Samarra International Conference for Pure and Applied Sciences (SICPS2021) AIP Conf. Proc. 2394, 040021-1–040021-11; <https://doi.org/10.1063/5.0123447>.
36. Genetic Variation of Rad51 Gene in Breast Cancer Patient. HIV Nursing, Vol. 22 No. 2 (2022)p:3178-3181; <https://doi.org/10.31838/hiv22.02.592>.
37. Physiological Effects And Molecular Characterization of Visfatin Gene Polymorphism in Patients With Beta-Thalassemia Major. HIV Nursing, (2023): Vol. 23 No. 1

### ***Plants:***

38. Physiological study and detection of DNA polymorphism in a number of salt tolerant barley (*Hordeum vulgare* L.) in Iraq. IPA. J. of Agric. Vol.7, No.2, 1997.
39. RAPD analysis for estimation genetic relationships among a number of Iraqi barley cultivars/lines. Iraqi J. Sci. 41B, No. 2, 2000.
40. Polymerase Chain Reaction (PCR). Iraqi J. Biotech., Vol.1, NO. 1: 13-33, 2002.
41. Use of AFLP markers for DNA fingerprinting of barley (*Hordeum vulgare* L.) cultivated in Iraq. Tikrit Pure Sci. J. No.2,2003
42. Use of RAPD markers for DNA fingerprinting of barley (*Hordeum vulgare* L.) cultivated in Iraq. Tikrit Pure Sci. J. No.1, 2004.
43. Assessment the Genetic performance of "SAMIR" Barley cultivare via RAPD Markers. Tikrit Pure Sci. J. No.2, 2005.
44. The use of SSR Markers for Genetic Diversity analysis of Barley (*Hordeum vulgare* L.) cultivated in Iraq. The 1<sup>st</sup> Scientific Conference. College Of Science, Kirkuk Uni 23-24, Feb 2009.
45. Morphological, anatomical, and Genomic study of *Vitex* L. (Verbenaceae) in some Iraqi Governorates. ProceedDeengs of the 2<sup>nd</sup> Scientific Conference for Biological Science – Sci. College- Mosul University, 16-17 Nov. 2011.
46. Identification Some Glycosidic Components From Some Species of *Boraginaceae Heliotropinum* L. Isolated From Medial And North of Iraq. Proceedings of the 7<sup>th</sup> scientific conference of Tikrit Education College, 6-7 May 2012.
47. Genetic Variation Analysis for Iraqi Orange (*Citrus sinensis* L.) Using RAPD-PCR Markers. Proceeding of the 4<sup>th</sup> Kurdistan Conference on Biological sciences, 8-10 May 2012.
48. Estimation of Genetic Diversity between Some Cultivars of Wheat Using DNA Amplification Fingerprint (DAF) Markers. Journal of University Of Duhok, Special Issue, Vol.15, No.1, P 501-506, 2012.
49. Assessment of Genetic Effects of Bacterial Cells After Exposure to Mobile Phone Radiation Using RAPD Technique. Iraqi Journal of Biotechnology, 2013, Vol.12, No.2 , 63-74.
50. Analysis of Genetic Diversity of Some Cotton Genotypes Using Random Amplified Polymorphic DNA (RAPD) Markers. Zagazig. J. Agric. Res., Vol. 40 No. (4) 2013.

51. Measuring Of Heterosis , Gene Action and Heritability In Okra *Abelmoschus esculentus* L. JTUAS. Vol. 14, No.2, pp. 188-194, 2014.
52. Studying Genetic Distance For Some Inbreed Line of Zea Maysby Using Genetic Marker (RAPD). JTUAS, (Special edition) the 3<sup>rd</sup> specificity conference for plant production, 26-27, march 2014. pp. 303-315.
53. Assessment of Genotoxic effects of copper on Cucumber Plant (*Cucumis sativus* L.) using Random Amplified Polymorphic DNA (RAPD-PCR) markers. J. of Biotech. Research Center, Vol. 8 No. 3. 2014.
54. Estimating genetic distance to variety of okra (*Abelmoschus esculentus* L.) by RAPD marker. JTUAS, (Special edition) the 3<sup>rd</sup> specificity conference for plant production, 26-27, march 2014. pp. 110-119.
55. Using of Selection Indexes in Evaluating of Drought Resistant Genotypes of Bread Wheat (*Triticum aestivum* L.) JTUAS, (Special edition) the 3<sup>rd</sup> specificity conference for plant production, 26-27, march 2014. pp. 283-294.
56. New records of some saprophytic and pathogenic fungi isolated from declining grapevine in Salahaldin province, middle Iraq. TJPS. 19 (5) 2014.
57. Construct molecular marker-based for identification some varieties of Iraqi date palm (*Phoenix dactylifera* L.) by PCR-RFLP. Kirkuk University Journal /Scientific Studies (KUJSS). Vol. 10, No 4, (2015) p.p 134-148.
58. Effect of UV and PEG on Increasing Tolerance of Wheat (*Triticum aestivum* L.) Callus to Drought. Iraqi J. of Biotech. Vol. 14, No. 2 , 278-288,(2015).
59. Purification and Characterization of Peroxidase Extracted from Wheat Bran. World Journal of Pharmaceutical Research, Vol 05, Issue 01, 2016.
60. Determine the DNA fingerprinting and genetic distance of a number of genotypes to *Vicia faba*. L by using the RAPD-PCR markers. JTUAS, Vol(17) No. (Special edition) 2017. The 6<sup>th</sup> Scientific conference for Agricultural Researches, 28-29, march 2017. pp. 579-595.
61. Genetic Diversity Analysis for a Number of Broad Bean (*Vicia faba*) Genotypes and Their Di-Alleles Hybrids Using RAPD-PCR Markers. JTUAS, Vol(17) No. (Special edition) 2017. The 6<sup>th</sup> Scientific conference for Agricultural Researches, 28-29, march 2017. pp. 1813-1646.
62. Using RAPD markers for genetic analysis in Three Species of Datura in Iraq. Tikrit J. of Pure Sci. 23 (10) 2018.
63. Impact of Bazian Cement Factory On Air, Water, Soil, and Some Green Plants In Sulaimani City-Iraq. Iraqi Journal of Agricultural Sciences –1027:49(3):354- 366.
64. Determine the DNA fingerprinting and genetic distance of a number of genotypes to *Vicia faba*. L by using the RAPD-PCR markers. 1<sup>st</sup> international & 3<sup>rd</sup> scientific Conf. of College of Sci. Tikrit Uni. 17-18, Dec.2018.
65. Comparison among a some of Iraqi date palm (*Phoenix dactylifera* L.) species using cpDNA. TUJA Sciences, Vol. (18), a special issue on the proceedings of the 7<sup>th</sup> and 1<sup>st</sup> International Scientific Conference for Agricultural Research, April 10-11, 2018.
66. The use of RAPD-PCR marker in the study of inheritable system traits genotypes to *Vicia faba* in hybrid and selection of a Desirable hybrids. TUJA Sciences, Vol. (18), a special issue on the proceedings of the 7<sup>th</sup> Scientific and 1<sup>st</sup> International Conference for Agricultural Research, April 10-11, 2018.
67. Analysis of Genetic Diversity of Some Olive genotypes Using Random Amplified Polymorphic DNA (RAPD) Markers. *Tikrit J. of Pure Sci.* 24 (1) 2019.
68. Estimation of the Performance and Genetic Parameters for Genotypes produced from Backcross of Second fillial Hybrids in Faba Bean (*Vicia faba* L.) Depending on Comistok and Robinson Method. KUJSS. Volume 14, Issue 3, September 2019 , pp. (188-208)
69. Evaluation of Combining Ability for Second Fillial Populations in the Faba Bean (*Vicia faba* L.) Depends on Half Diallel Cross. KUJSS. Volume 14, Issue 4, December 2019, pp. (183-205).



70. Use of Multiplex PCR to Detect Drought-Tolerant Genes *Dreb1* In Some Genotypes of Bread Wheat (*Triticum Aestivum* L.) *Plant Archives* Vol. 19, No. 2, 2019 pp. 1270- 1274.
71. Comparative Anatomical Study of Three *Centaurea* Species (Asteraceae) From Iraq. *Plant Archives* Vol. 19 No. 2, 2019 pp. 3404-3410.
72. Molecular assessment of environmental risk of pollution in plants from cement factory. *Res. on Crops* 20 (Issue Suppl) : S113-S123 (2019).
73. Study of Antibacterial Phenolic Compounds of Vitex Genus Leaves Extractions By HPLC And SNPs of The First Structural Biosynthesis Pathway Gene (*Pal*). *Plant Archives* Vol. 20, Supplement 1, 2020 pp. 93-98.
74. Molecular Prediction for The Identification of Tannins In A Number of Genotypes of (*Vicia Faba* L.) and their Di Alleles Crossing and Compare Results Quantitatively. *Plant Archives* Vol. 20, Supplement 2, 2020 pp. 3914-3921
75. Genetic variation and early diagnosis of palm varieties (*Phoenix dactylifera* L.) based on mtDNA. The 2<sup>nd</sup> International and 4<sup>th</sup> Scientific Conference of Science College/ Tikrit University 24-25 Nov. 2020:57-65.in Arabic.
76. Comparative Study of Several Morphological and Reproductional Aspects For Some Species of the *Bellevalia* Lapeyrouse, 1808 and *Ornithogalum* Linnaeus, 1753 (Asparagales, Asparagaceae) in Central And North of Iraq. *Bull. Iraq nat. Hist. Mus.* (2020) 16 (2): 173-191. <https://doi.org/10.26842/binhm.7.2020.16.2.0173>.
77. The Effect of gene Polymorphism on the Production and Quality of Oil in the Sesame Plant Seed. *Plant Archives* Vol. 20 Supplement 1, 2020 pp. 1101-1107
78. Detection of genetic variation and genetic fingerprinting for five radish cultivars cultivated in Iraq using RAPD-PCR markers. The 2<sup>nd</sup> International and 4<sup>th</sup> Scientific Conference of Science College/ Tikrit University 24-25 Nov. 2020:7-14.in Arabic.
79. The Scientific Effects of Different Sounds Volume on the Phenotypic and Genetic Markers of *Cucumis sativus*. *Annals of R.S.C.B.*, Vol. 25, Issue 3, 2021, Pages. 7416 – 7430.
80. Detection of Mn – Dependent Chitinase for Wheat Root Rot Disease Control by Real-time PCR. *Indian Journal of Forensic Medicine & Toxicology*, October-December 2021, Vol. 15, No. 4.
81. Using of RAPD-PCR markers to detect the genetic relationship of number of *Bellevalia* Lapeyr and *Ornithogalum* L. species developing in central and northern of Iraq. *Ibn Al-Haitham International Conference for Pure and Applied Sciences (IHICPS) Journal of Physics: Conference Series* 1879 (2021) 022014 IOP Publishing doi:10.1088/1742-6596/1879/2/022014.
82. Effect of plasma diffuser isolation barrier on the germination of seven broccoli cultivars. *College of Basic Education Researchers Journal*. ISSN: 7452-1992 Vol. (17), No.(3), (2021)
83. Estimated Gene Expression Level of three Genes Responsible for Glucosinolate Production in Eight Broccoli Items Grown in Iraq. *Plant Cell Biotechnology and Molecular Biology* 22(63&64):112-120; 2021
84. Effect of non-thermal plasma using the isolation barrier vacuum reactor (DBD) on seven broccoli cultivars. *College of Basic Education Researchers Journal*. ISSN: 7452-1992 Vol. (18), No.(2), (2022)
85. Effect of Flavonoid Extracts of Three Famous Plants on Two Virulence Genes *rmpA* and *iucA* of *Klebsiella pneumonia* Isolated as Co-infection from COVID-19 Patients. *J. for Rese. in App. Sci. and Biotech.* Vol.1 Issue-4, October 2022,PP. 116-119. <https://doi.org/10.55544/jrasb.1.4.14>.
86. Estimation of *fls* Gene Expression in Ginger, Grapes and Date Palms using *Artemisia annua* as a Control Sample. *J. for Rese. in App. Sci. and Biotech.* V.1 Issue-4, Oct. 2022, PP. 120-123. <https://doi.org/10.55544/jrasb.1.4.15>.
87. Profiling of foxtail millet (*Setaria italica* L.) germplasm using *in vitro* drought screening and SSR markers. *Plant Genetic Resources*, Vol 20 Issue 4, 2023.

### Microorganisms:

88. The effect of antibiotics on a number of Cyanobacteria genuses. *Tikrit Pure Sci. J.* No.1, 2006.
89. Application of the Randomly Amplified Polymorphic DNA (RAPD) Markers to Analyze the Genetic Variability in Species of the Fungus *Alternaria*. *J. RAF. Sci.*, Vol. 22, No.1pp1- 11, 2011

90. Molecular Characterization Of *Pseudomonas Aeruginosa* Isolates Isolated From Clinical Patients By Using RAPD-PCR Technique. Anbar University J. For Pure Sci. Vol.6 No. (3)2012.
91. The Immunity Diagnosis of injury with *Giardia Lamblia* parasite using ELISA technique for Salah Al-Dien patients. Proceedings of the 7<sup>th</sup> scientific conference of Tikrit Education College, 6-7 May 2012.
92. Diagnostic Study of Some Species of Genus *Entamoeba* by PCR Technique In City Tikrit. Proceeding of the 2<sup>nd</sup> Scientific Conference – Science College – Tikrit University, 25-26 Sep. 2012.
93. Using Random Amplified Polymorphic DNA (RAPD) analysis to investigation of genetic diversity, and relationships among a set of clinical *Aspergillus fumigatus* Isolates. J. of Biotech. Research Center, 2013.
94. Genetic study of the relationship of isolates of bacteria *E. coli* and *K. pneumonia* isolated from cases of gallstones, urine stones, and gastrointestinal canal using Amplified Fragments lengths polymorphism (AFLP) technique. International Journal for Sciences and Technology Vol. 8, No.3, September 2013.
95. Bacteriolytic Activity of Coliphages on Diarrhea Associated *E. coli*. J. of Natural Sciences Research. Vol.4, No.6, 2014, pp.69-75.
96. Isolation and characterization of entero aggregative *Escherichia coli* among the causes of bacterial diarrhea in children. Tikrit J. of Pure Sci. Vol. 20 (4) 2015
97. Possible Role for Alpha- Fetoprotein In *Toxoplasma Gondii* Infection Among Aborted Iraqi Women. J. of Science, Vol 5. No.8. pp. 704-709, 2015.
98. Genotyping of *Toxoplasma gondii* Isolated from Aborted Iraqi Women. Diyala Journal of Medicine, Vol. 9, Issue 1, October 2015.
99. Fungi associated with grapevine (*Vitis vinifera* L) decline in middle of Iraq. Egypt. Acad. J. Biolog. Sci., 7(1): 53 – 59(2015)
100. Genetic Diversity Using Random Amplified Polymorphic DNA (RAPD) Analysis for *Aspergillus niger* isolates. Iraqi J of Sci, Vol.56, No.4C, 2015, pp: 3376-3389
101. Multiplex PCR for Detection of Exfoliative Toxins, and Toxic Shock Syndrome Toxin 1 Genes in MRSA Strains of Clinical *Staphylococcus aureus* Isolates. Tikrit J. of Pure Sci. 21 (3) 2016.
102. Detection of Some Staphylococcal Enterotoxin Genes in MRSA Strains Using PCR Techniques. Tikrit J. of Pure Sci. 21 (3) 2016.
103. Studying of antagonistic activity of some probiotics against bacteria *P. mirabilis* isolated from kidney stones. Tikrit J. of Pure Sci. 22 (8) 2017.
104. Molecular detection of some genes virulent bacteria *Proteus mirabilis* isolated from kidney stones. Tikrit J. of Pure Sci. 22 (10) 2017.
105. Using RAPD markers for Detection the genetic diversity of *E. coli* isolates from Kirkuk hospitals. Tikrit J. of Pure Sci. 23 (5) 2018.
106. The use of RAPD markers to detect the genetic diversity of *E. coli* isolates from Kirkuk city environment. Tikrit J. of Pure Sci. 23 (5) 2018.
107. Molecular Identification and Biological resistance of The *Fig Mosaic Virus (Fmv)* On Fig Trees In Saladin Governorate Nurseries. *Plant Archives* Vol. 19 No. 2, 2019 pp. 3173-3180.
108. Determination of Some Morphological Traits and Genetic Factor of Two Species of *Liriomyza spp* (Diptera: Agromyzidae) on the Climbing Beans and Tomato Crops. TJAS Vol. 19 No.1 (2019) pp:57-68.
109. Molecular Characterization of Methicillin-Resistant and Methicillin- Susceptible *Staphylococcus aureus* Isolates Obtained from Human-Skin Samples in Iraq. Biomedical & Pharmacology Journal, June 2020. Vol. 13(2), p. 737-746. <http://dx.doi.org/10.13005/bpj/1939>.
110. The use of DNA Sequencing to confirm the first report of Rev.1 strain isolated from human brucellosis in Iraq. RJPT, Volume - 13, Issue - 12, 2020.
111. Detection the phenotypic and genotypic activity of lysogenic bacteriophages on *pseudomonas aeruginosa*. *Plant Archives* Volume 20 No. 2, 2020 pp. 6161-6169.

112. Detection of the diversity of pseudomonas aeruginosa phages isolated from different sources. Plant Archives Volume 20 No. 2, 2020 pp.7685-7693.
113. Molecular Identification of Methicillin-Resistant and Methicillin Susceptible Staphylococcus aureus Using RAPD Indicators. *Innovations in Microbiology and Biotechnology Vol. 7*, 25 August 2022 , Page 1-16 <https://doi.org/10.9734/bpi/imb/v7/6520F>
114. Prevalence of Blastocystis hominis in patients with diabetes mellitus in Balad City , Salahaddin Province, Iraq. NTU Journal of Pure Sciences (2023) 2 (4) : 1-8: <https://creativecommons.org/licenses/by/4.0/>

### **\*Conferences:**

1. The 3<sup>rd</sup> Scientific Conference of Biology /college of Education (Ibn AL-Haitham)/ Baghdad University, Dec. 14-16, 2002.
2. The 2<sup>nd</sup> National Conference of Biology-Baghdad/college of Science AL-Mustansiriya University, Dec. 25-26, 2002.
3. The 1<sup>st</sup> Conference of Biology in Kurdistan region May 2-5, 2006.
4. The 3<sup>rd</sup> symposium of Biotechnology for Arabic Agricultural investment Jordon - Amman May 22-24, 2007.
5. The 2<sup>nd</sup> Conference of Biology in Kurdistan region May 6-9, 2008.
6. The 1<sup>st</sup> Conference of Science in Kirkuk University Feb. 23-24, 2009.
7. The 1<sup>st</sup> Scientific Conference of Biology /college of Science / Mousel University, April. 22-23, 2009.
8. The 1<sup>st</sup> Scientific Conference of Science College/ Tikrit University 9/29-30/2009. (Coordinator).
9. The 4<sup>rd</sup> Scientific Conference of Education Samara College/ Tikrit University, 30-31 march 2011.
10. The 3<sup>rd</sup> Scientific Conference of Medicine College/ Tikrit University, 6-7 April 2011.
11. The 2<sup>nd</sup> Scientific Conference of Biology /college of Science / Mousel University, Dec. 22-23, 2011.
12. The 7<sup>th</sup> scientific conference of Tikrit Education College, 6-7 May 2012.
13. The 4<sup>th</sup> Conference of Biology in Kurdistan region, Duhok Uni. May 8-10, 2012.
14. The 2<sup>nd</sup> Scientific Conference of Science College – Tikrit University, 25-26 Sep. 2012. (Coordinator).
15. The 2<sup>nd</sup> Scientific Conference of Agricultural researches in Kirkuk University Oct. 30-31, 2013.
16. The 1<sup>st</sup> International Scientific Conference / CIHAN University- Kurdistan Iraq 20-21 April. 2014.
17. The 1<sup>st</sup> International Conference of Woman Education College/ Tikrit University 29-30 August. 2017
18. International Students Science Conference. 5-6 May 2017, Izmir – Turkey.



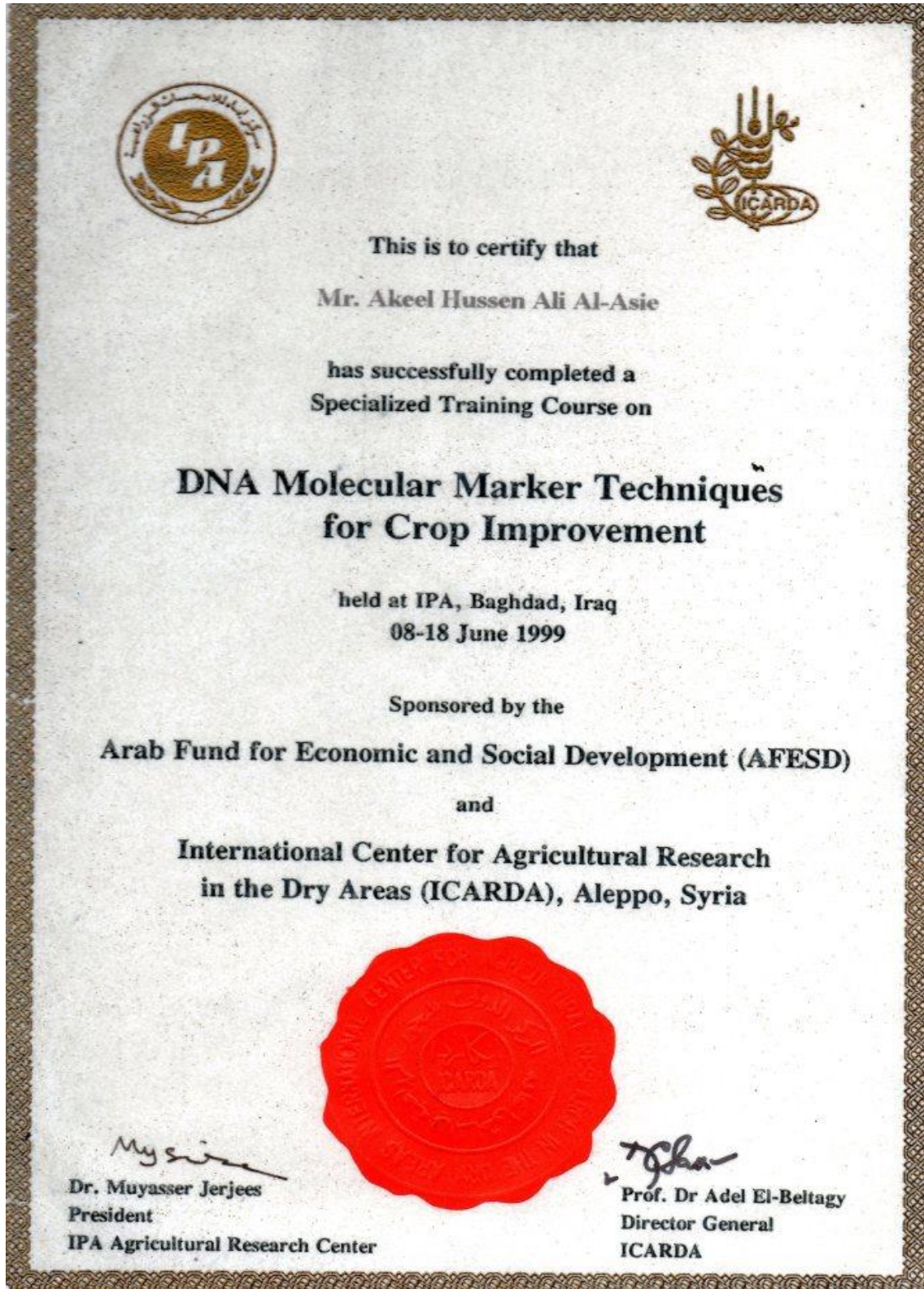
19. The 7<sup>th</sup> Scientific and 1<sup>st</sup> international Conference of Agricultural research. Agriculture College- Tikrit University, 10-11 April 2018.
20. The 3<sup>rd</sup> Scientific Conference of Biological sciences /college of Science / Mousel University, Nov. 21-22,2018.
21. The 1<sup>st</sup> International and 3<sup>rd</sup> Scientific Conference of Science College/ Tikrit University 17-18 Nov. 2018. (Coordinator).
22. The 1<sup>st</sup> International Conference for Pathological Analysis, 25-26 Oct. 2019. Basrah University- College of Science- Pathological Analysis Dept.(Speaker).
23. The 2<sup>nd</sup> International and 4<sup>th</sup> Scientific Conference of Science College/ Tikrit University 24-25 Nov. 2020.

### Experience:

1. Participation in course training of (Use of DNA Markers for Plant improvement) ICARDA 1999. (*attached 1*).
2. Participation in course training of (The Use of PCR in Medical Applications) Iraq- Al-Nahrain University- Biotechnology Center 10-14 April, 2005. (*attached 2*).
3. Participation in course training of (Theoretical and Practical Course "The Use of Advanced Molecular Techniques in Plant-Microbe Interactions) Damascus, Syria 5-15 Sep 2005. (*attached 3*).
4. Participation in course training of (GMOs) Aleppo- ICARDA 19-30 August 2007. (*attached 4*).
5. Member of The Ministerial Team for Training Within The Project of CRDF Global Strengthening Iraq's Forensic DNA Analysis Capabilities, 2009-2011.
6. Participation in course training of (*The Use of DNA Fingerprint In The Identification Of Missing Persons & Victims of Mass Fatalities*) Iraq- Al-Nahrain University- Biotechnology Center 15-19 March, 2009. (*attached 5*).
7. Participation in course training of (*Recent Advances in Biotic Stress Tolerance in Plants*) Egypt /Cairo University/faculty of Agriculture (GERC) 13-20 Feb., 2010. (*attached 6*).
8. Participation in course training of (DNA Profile Analysis and Maintaining Sample Integrity) Jordon-Irbid JUST 13-18 March 2010. (*attached 7*).
9. Participation in course training of (*Forensic Human Identification Training*) Lebanon –Biuret Unitech International Company 22-24 March 2010. (*attached 8*).

10. Participation in course training of (DNA Profile Analysis II) Jordon-Irbid JUST September 26- Oct 30. 2010. (*attached 9*).
11. Participation in course training of (*DNA Kinships Analysis*) Jordon- Irbid JUST Jan.30-Feb.10, 2011. (*attached 10*).
12. Member of the visiting delegation to ICMP laboratories in Tuzla and Sarajevo - Bosnia and Herzegovina 23-26/5/2011.
13. Participation in workshop of *Chemical Safety and Security Officer Training*- Tikrit University 12-14 Jun 2012(*attached 11*).
14. Participation in Workshop of (*Application of Human Y-Chromosomes and mtDNA In Forensic And Anthropological Investigations*) -Basrah University 4-8 Nov. 2012(*Attached 12*).
15. Participation in Training Course of the *University Administration Support Program Management*, IREX from March 24 – March 26,2013 in Erbil, Iraq. (*Attached 13*).
16. Participation in Training Course of *Academic Staff training in Bangor University* from April 15 –May 10,2013 in Wales, UK. (*Attached 14*).
17. Participation in *XRF and XRD Workshop*, -physics Dept. at University of Sulaimani. Oct. 2-3<sup>rd</sup>, 2013(*Attached 15*).
18. Participation in *Quality of Chemical Laboratories according to GLP Standards* Workshop College/ Tikrit University 21-23 Nov. 2016.
19. Member of Scientific Committee of International Students Science Conference. 5-6 May 2017, Izmir – Turkey (*Attached 16*).
20. Participation in Training Course of “*Bioinformatics: Computer Methods in Molecular and Systems Biology*”.Trieste – Italy 26-30 June,2017. (*Attached 17*).
21. Participation in Training Course of “*principles of primer and probe design and sequence data analysis*”. Bio. Dept. College of Education for pure Science – Tikrit University -Iraq 19-22 feb. 2018. (*Attached 18*).
22. Participation in Training Course of “*ISO 9001: 2015 Foundation (Quality Management Systems)*”. Istanbul – Turkey 14-20 March 2018. (*Attached 19*).  
VERITAS
23. Participation in Training Course of “*ISO 27001: 2013 Foundation (Quality Management Systems)*”. Istanbul – Turkey 14-20 March 2018. (*Attached 20*).
24. Participation in Training Course of “*ISO 17025: 2005 Foundation (Quality Management Systems)*”. Istanbul – Turkey 14-20 March 2018. (*Attached 21*).
25. Participation in Training Course of “*Internal Auditor Foundation (Quality Management Systems)*”. Baku – Azerbaijan 4-8 May 2018. (*Attached 22*).
26. Participated in a training course in “*The principles and applications of Real-Time PCR and Bioinformatics*” Central Labs. of Tikrit University. 5-6 Dec. 2018. (*Attached 23*).

## Attachment 1





## Attachment 2

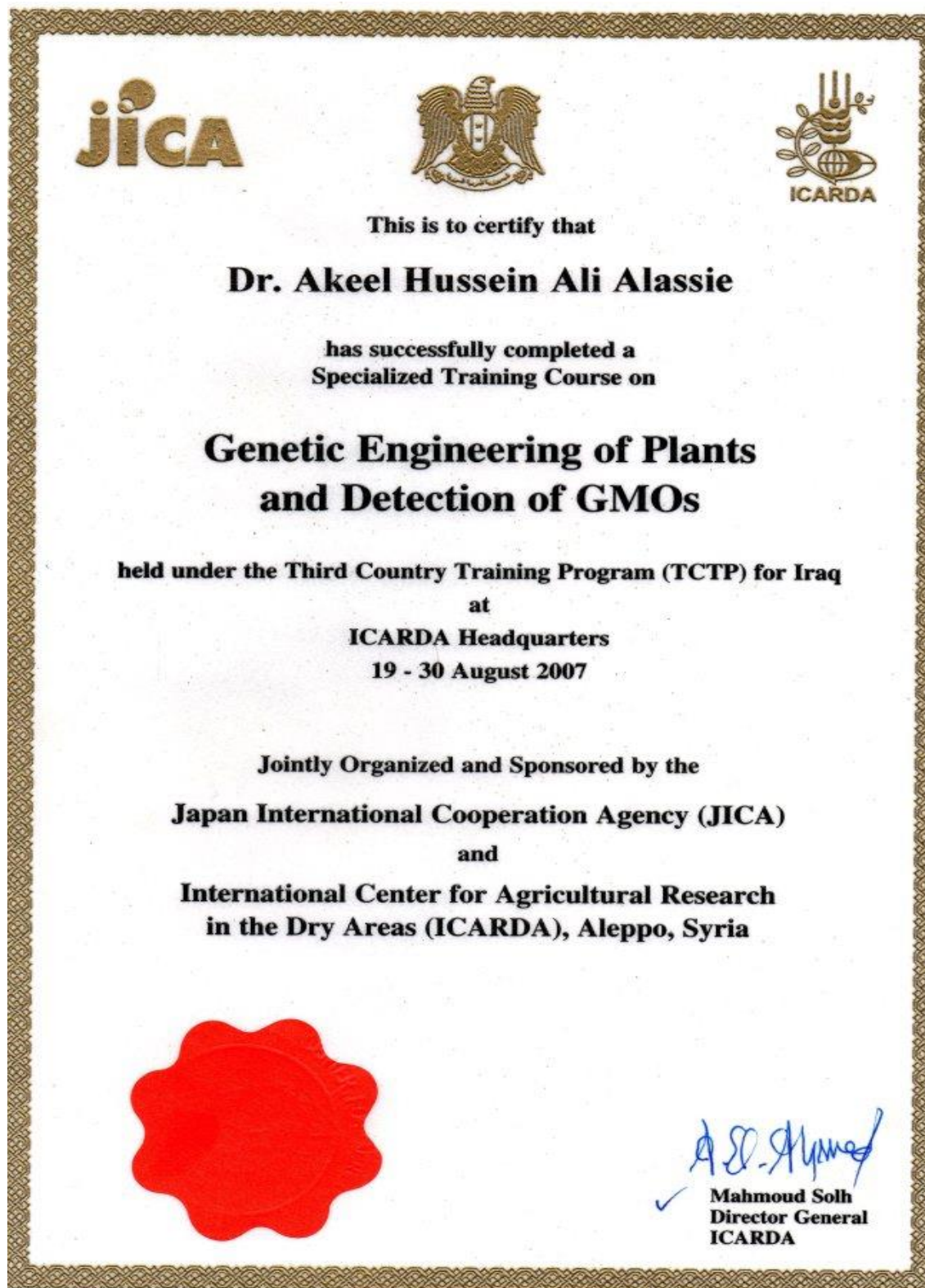


### Attachment 3





## Attachment 4



Attachment 5





### Attachment 6





Attachment 7





### Attachment 8





### Attachment 9





Attachment 10



### Attachment 11





Attachment 12





### Attachment 13





## Attachment 14





## Attachment 15





## Attachment 16



### Attachment 17



**ICGEB** International Centre for Genetic Engineering and Biotechnology

Developing Knowledge



## Meetings and Courses 2017

ICGEB Seminar Room, W Building - Main Entrance, "W" Building,  
AREA Science Park, Padriciano 99, 34149 Trieste, ITALY

*This is to certify that*

**Akeel AL-ASSE**

has attended the Course

**"Bioinformatics: Computer Methods in Molecular and Systems Biology"**

26-30 June 2017 | Trieste-ITALY

The topics covered included:

- Genome and proteome databases
- Similarity searching, alignments
- Sequence phylogeny
- Next-generation sequencing data analysis using open source software
- High throughput methods, chip-seq, RNA-seq
- Genome projects, functional genomics

**Mauro Giacca**  
Director-General, ICGEB



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<http://www.icgeb.org/meetings-and-courses.html>



**Certificate of Attendance**



Attachment 18





## Attachment 19

**BUREAU VERITAS**  
Certification



### Certificate of Attendance

This is to certify that

**Delegate Name**

of

**PROF.DR.AKEEL HUSSEIN ALI AL-ASSIE**

Attended the

*ISO 9001:2015 Foundation (Quality Management Systems)  
Training course*

**Held on:** 14-20 March, 2018

**at:** Istanbul, Turkey

**Signed:**

  
Training Manager

**Date:** 21 March, 2018



Attachment 20



المؤسسة العربية  
للتدريب والاستشارات والتحكيم  
ARAB FOUNDATION  
For Training & Consultancy & Arbitration

تشهد المؤسسة العربية للتدريب والاستشارات والتحكيم

بأن **أ. د. / مهيل حسين**

قد اجتاز برنامج متطلبات نظام إدارة الجودة بموجب المواصفة القياسية الدولية

(ISO 9001:2015)

ومطلوبات نظام إدارة أمن المعلومات بموجب المواصفة القياسية الدولية

ISO/IEC 27001:2013

والذي عقد في اسطنبول - الجمهورية التركية خلال الفترة من 14-20/3/2018



الأمين العام



Attachment 21





Attachment 22





Attachment 23

