AMR ABD EL-MOOTI MOHAMED EL- HANAFY SAMRA

PROFESSOR IN NUCLEIC ACIDS RESEARCH DEP., GENETIC

ENGINEERING AND BIOTECHNOLOGY RESEARCH INSTITUTE, CITY FOR SCIENTIFIC RESEARCH AND TECHNOLOGICAL APPLICATION.

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EDUCATION	**2000-2005** ***Alexandria University*** **Alexandria, Egypt** **PhD in Agriculture Science** **M.Sc in Agriculture Science**	

	• **Specialization : Animal Nutrition** • **Graduate : Feb. 1998** **1986-1990** ***Cairo university*** **Cairo, Egypt** **B.Sc. Agriculture Science** *** B.Sc. Very good with honor in animal production** *** Graduated : May 1990 .**
ACTIVITIES	***CONFERENCES* and WORKSHOPS** ❖ **Contributed and organized Work Shop on Advanced in Molecular biology held in Mubark City for Scientific Research and Technology Application (MUCSAT), Alexandria, Egypt (14 -16 March 2010).** ❖ **Participated in TOT Workshop on HIV/AIDS held in Mubark City for Scientific Research and Technology Application (MUCSAT), Alexandria, Egypt (25-26 October 2009).** ❖ **Completed Workshop on " Your Factory and Environment (Industrial wastewater and environmental laws) organized by Mubark City for Scientific Research and Technology Application (MUCSAT), Alexandria, Egypt (6-7 July 2009).** ❖ **Participated with an oral presentation " DNA polymorphism studies on IGFBP-3 gene in four Egyptian sheep breeds"in 1st International joint Conference on Materials Science, nanotechnology and Biotechnology.NNB 09- Future Challenges, January 4-6th -2009- National**

Research Center, Cairo, Egypt.

- **Participated with an oral presentation " Molecular and Physiological Characterization of two Native Egyptian Ligninolytic Bacterial Strains" in 5th Conference on 'Scientific Research Outlook & Technology' (SRO 5) (Biotechnology conference) during 26-30 October, 2008 . Fez – Morocco. http://www.astf.net/SRO/sro5/for_web.swf**

- **Participated as a main speaker with an oral presentation " Reuse of Agricultural Wastes in Livestock Feeding Via Biodegradation of their Lignin Content Using Genetic Selected Ligninolytic Bacterial Strains". ' in Research, Development & Innovation in Biotechnology in Arab Countries" (RDI: Biotechnology) Forum (3rd - 5th of March 2008) , Amman, Jordan. http://www.astf.net/uploads/day3/abdelmooti.pdf**

- **Participated as a trainer in" Molecular Biology: Theory and practice" workshop (23-27 March, 2008), Faculty of Science, Alexandria University, Egypt & Genetic Engineering and Biotechnology Institute. Mubark City for Scientific Reseearch and Technology Application (MUCSAT), Alexandria, Egypt.**
- **Completed The WIPO National Workshop on Intellectual Property (IP) Strategy and Successful Technology Licensing (STL) organized by the World Intellectual Property Organization, Geneva, Switzerland in cooperation with The Academy of Scientific research and Technology (ASRT), Cairo, Egypt; The Egyptian Patent Office (EGPO), Cairo, Egypt and The Mubark City for Scientific Research and Technology Application (MUCSAT), Alexandria, Egypt (10-13 March 2008).**

- **Completed The Intensive Workshop on "Environmental Pollutants, Fertility and Protection", Institute of Graduate Studies & Research (IGSR), University of Alexandria Research Center (UNARC) In Cooperation with Charité and Hohenheim Universities, Germany. Alexandria, Egypt, 18 – 21 August 2007.**

- **Participated in fourth meeting of students of *Faculty of Science, King Abdulaziz University* for 2012.**

- **Participated with an oral presentation " DNA Polymorphism studies of α-Lactalbumin and β-Lactoglobulin Genes in Native Saudi Goat Breeds for Enhancing their Genetic Performance in 20 International Conference Modern Trends in Zoology: Current and Advanced Practices 18-20 October-2014 Marriott Hotel, Zamalek, Cairo, Egypt.**

- **Participated with an oral presentation "DNA POLYMORPHISM STUDIES OF β-LACTOGLOBULIN GENE in NATIVE SAUDI GOATS " in International Conference on Agricultural Science, Technology and Engineering, Istanbul, Turkey on December, 22-23, 2014**

- Participated and session chair with an oral presentation "**Isolation and Molecular Identification of Two Fungal Strains Capable of Degrading hydrocarbon Contaminants on Saudi Arabian Environment**" in 17th International Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering to be held in Rome, Italy on December, 3-4, 2015.

- Participated with an oral presentation " **Milk yield and fingerprinting of Beta-casein precursor(CSN2) gene in some Saudi camel breeds**" in 19th International Conference on Biotechnology and Bioengineering held in Paris, France October 19 - 20, 2017

- Attendance of Program for Professional College Instructor , Theme One: Efficient Teaching and Learning Stratiges. Held on October,2018 in Center for Teaching&Learning Development, King Abdulaziz University.

- Attendance of Program for Professional College Instructor , Theme two: Students Assessment Stratiges. Held on November ,2018 in Center for Teaching&Learning Development, King Abdulaziz University

- **Principle Investigator of MUCSAT internal project " Maximizing the utilization of agriculture wastes throughout biodegradation of their lignin content using genetically selected ligninolytic bacterial strains" funded in the financial year 2007-2008 for one year. Most of the project plan was executed and the technical reports were sent to MUCSAT.**

PhD and M Sc. Supervisions:

	Main supervisor on: **1- Isolation and Mmolecular Profiling of Microorganisms Responsible for Degrading Hydrocarbons from Oil Spills on Saudi Arabian Environment . phD thesis, Dept. of Biological Science, Faculty of Science, King Abdulaziz University. Student: Yasir Anwar.** **2- Isolation and molecular identification of poly aromatic hydrocarbons degrading bacteria from Saudi environment. M Sc. thesis, Dept. of Biological Science, Faculty of Science, King Abdulaziz University. Student: Abdulwahed Alfaidy** **3- Molecular genetic markers studies of some local Saudi sheep breeds M Sc. thesis, Dept. of Biological Science, Faculty of Science, King Abdulaziz University. Student:Ayoub Al Thobaiti.** **Previous supervisions:** **1- ” Improvement of productive traits in farm animals using molecular genetic techniques.”** **Student: Aiat Mohamed EL Maghraby** **Genetic Dept., Faculty of Agriculture, Alexandria University.** **2- "Biodegradation of paper manufacturing wastes (Black liquor) using Egyptian bacterial isolates".** **Student: Abdulla ELsayed Mohamed Ahmed** **Faculty of Agriculture, (Saba Basha) , Alexandria University.** **3- Molecular characterization and production of Ligninolytic enzymes by Egyptian fungi.**

Student: Mayada Sherif Fadel

Faculty of Science, Alexandria University.

4- The impact of water pollution on the fish Solea vulgaris aegyptiaca(Chabanaud, 1927) inhabiting different localities in Alexandria.

Student: Iman Ahmed Mohamed

Faculty of Science, Alexandria University.

Reviewing in ISI journal :

Work as reviewer in Bioresource Technology Journal for many articles

Teaching Activity :

Teached many courses in Biological Science Depatement, Faculty of Science , King Abdulaziz Unveristy , Jeddah, Saudi Arabia

1- General Biology Bio 110
2- Molecular Biology Bio 325
3- Molecular Genetic Bio 702
4- Applied Microbiology Bio 371
5- Immunity And Vacciines Bio 402

Administrative Activities

List your Administrative Activities here…

(Activity Title, Description & Date)

Extra-curriculum Activities

Professional Memberships:

Egypt Agriculture Syndicate, The Egyptian Society of Animal Production (ESAP), Egyptian Society of nutrition and feeds, member of research staff of

	Mubark City for Scientific Research and Technological Application. Scientific journal Memberships: Member of editorial board of Journal of Applied Science Research.
GRANTS & AWARDS	▪ **Principle Investigator of US- Egypt joint research project entitled " Bacterial "Biodegradation of lignin in agricultural and industrial wastes" started at February 2009, funded by Science and Technology Development Fund (STDF) . The first technical report was approved by STDF.** ▪ **PI of : Fingerprinting study of some gene markers of local Saudi sheep & goats for improving their productive performance. Strategic Technologies Research Program, Mach 2011** ▪ **PI of : Isolation and molecular characterization of novel microbial strains capable of degrading crude oil and hydrocarbon contaminants in Saudi Arabia. Strategic Technologies Research Program, Mach 2012.** ▪ **CO PI of the project: Molecular characterization of some milk proteins in Saudi camels for conservation of these local genetic resources, funded by KACST of big Grant program.** ▪ **COPI of the project : Molecular epidemiological study on MRSA genotypes and the effect of *Rhazya stricta* leave extract upon them funded by Dean of Scientific Research , *Faculty of Science, King Abdulaziz University* (General Program).** ▪ **PI of Distinctive study Grant program funded by Dean of Scientific Research , *Faculty of Science, King Abdulaziz University* for 2015 entitled : Phylogenetic study of some Saudi goat breeds by using sequence analysis of specific mitochondrial D-loop region.**
	Awards ❖ **Obtained Award** and certificate from **Dean of Scientific Research ,** *Faculty of Science, King Abdulaziz University* **for 2013 for Distinctive Scientific publication of Article:** Abedin R. M. A., Amr A. El Hanafy, Sawsan Abd El-Latif, Samy A. El-Assar, Mayada S. Fadel **(2013).** ligninolytic oxidative system of fungi Egyptian isolates and their applications in the decolorization of industrialdyes. Biotechnol. & Biotechnol. Eq,27: 4269-4275 ❖ Obtained award and certificate for special scientific achievement from CSAT board in 2009,2010,2012, 2014 .

LIST OF PUBLICATIONS	**Redwan Elrashdy M., Alkarim Saleh A., El-Hanafy Amr A., Saad Yasser M., Almehdar H. A. and Uversky Vladimir N. (2019): Disorder in milk proteins: adipophilin and TIP47, important constituents of the milk fat globule membrane, Journal of Biomolecular Structure and Dynamics, 21:1-16.** **Ahamed Mohamed M, Sheikh Abdullah , Mutawakil Mohamed H. Zainy, Saini K Singh, Alsulaimany Faten A.S., El Hanafy Amr A, Sabir Jamal Sabir M. (2019).SNP mapping and phylogenetic analysis of Saudi Arabian horse breeds based on mitochondrial genome sequencing . Indian Journal of Experimental Biology, 28:225-230.** **Redwan E. M, Alkarim Saleh A., El‑Hanafy A. A. , Saad Yasser M. , Almehdar H. A. Uversky V N.(2018). Correction to: Variability of Some Milk-Associated Genes and Proteins in Several Breeds of Saudi Arabian Camels. The Protein Journal. 37:333–352. https://link.springer.com/content/pdf/10.1007%2Fs10930-018-9788-4.pdf** **Qureshi Muhammad Iqbal, Mutwakil Mohamed H. 1, El Hanafy Amr A., Abou-Alsoud Mohamed, Sabir,Jamal El Ashmaoui Hassan, Ramadan Hassan A. I. Ahmed Mohamed Morsi M (2018). Fingerprinting of IGFBP 3 and FecB genes as molecular markers in sheep and their association with productive and reproductive traits. Research Journal of Biotechnology ,13:110-114.** **Sheikh A. , Ahmed M. M. M., Mutwakil M. H. Z., Sain K. S., Alsulaimany F. A.S. , EL Hanafy A. A,Sabir J. S. M(2018). Comparative Molecular Analysis Of ISSR Markers In Arabian Horse Breeds. The Journal of Animal & Plant Sciences, 28; 332-336.** **Anwar Yasir, . El-Hanafy Amr A, Sabir Jamal S. M., Al-Garni Saleh M. S., Al-Ghamdi Khalid, Almehdar Hussein , Waqas Muhammad(2017).**

	Characterization of Mesophilic Bacteria Degrading Crude Oil from Different Sites of Aramco, Saudi Arabia. Polycyclic Aromatic compounds, https://doi.org/10.1080/10406638.2017.1382542 **Saad, Y. M. . El Hanafy A. A, . Alkarim S. A, Almehdar H. A., Redwan El.M. (2017). Analysis of genetic variations in camel breeds. International Journal of Animal and Veterinary Sciences,7:564-568.** **El Hanafy Amr A., Anwar Y., Sabir J.S., Al-Garni S.M.S., Mohamed S.A AbuZinadah O.A., Ahamed Mohamed M(2017). Characterization of Native Fungi Responsible for Degrading Oil Spills from Coastal Area of Yanbu, Saudi Arabia. Biotechnology & Biotechnological Equipment,1;105-111 , DOI10.1080/13102818.2016.1249407** **EL Hanafy Amr A, Saad Yasser M., Alkarim Saleh A., Almehdar Hussein A., Redwan Elrashdy M(2016). Camel genetic resources conservation in Saudi Arabia via molecular markers.Wulfenia Journal ,23:88-103. IF:2 ISI** **Anwar Yasir, EL Hanafy Amr A, Sabir Jamal SM, Al-Garni Saleh Mohamed and Ahmed Mohamed Morsi M (2016). Microbes using PAHs as Energy source: Relationship with diseases. Research Journal of Biotechnology, 11:94-109.** **El Hanafy Amr A., Qureshi Muhammad I., Sabir Jamal, Mutawakil M. M., Ramadan Hassan A. I, El Ashmaoui Hassan,., Abou-Alsoud Mohamed and Mohamed, Ahmed Mohamed.(2016). Allele Mining in the caprine α-lactalbumin Gene of Native Saudi Origin. Biotechnology & Biotechnological Equipment 30;1115-1121http://dx.doi.org/10.1080/13102818.2016.1224683.**

	Baeshen Mohammed N., Al-Attas Sanaa G., Ahamed Mohamed M., EL Hanafy Amr A., Alotibi Ibrahim A. and Baeshen Nabih A.(2016). The effect of Rhazya stricta aqueous leaves extract on MRSA genotypes in Jeddah province Biotechnology & Biotechnological Equipment,30:368-374 DOI: 10.1080/13102818.2015.1124739. **Ahamed Mohamed M, Sheikh Abdullah , Mutawakil Mohamed H. Zainy, Saini K Singh, Alsulaimany Faten A.S., El Hanafy Amr A, Sabir Jamal Sabir M. (2016). Comparative Analysis of ATP6 Mitochondrial Gene Diversity in Arabian and Non-Arabian Horse breeds. The Journal of Animal & Plant Sciences, 26:437-444.** **El Hanafy Amr A., Anwar Yasir, . Mohamed Saleh A, Al-Garni Saleh Mohamed Saleh, . Sabir Jamal S. M, Abu Zinadah Osama A H., Ahmed Mohamed Morsi (2015). Isolation and Molecular Identification of Two Fungal Strains Capable of Degrading hydrocarbon Contaminants on Saudi Arabian Environment. International Journal of Biological, Biomolecular, Agricultural, Food and Biotechnological Engineering 9:1112-1115.** **El Hanafy Amr A., Anwar Y., Mohamed S.A., Al-Garni S.M.S., Sabir J.S., AbuZinadah O.A., Al Mehdar H., Alfaidi A., Ahamed Mohamed M(2016). Isolation and identification of bacterial consortia responsible for degrading oil spills from the coastal area of Yanbu, Saudi Arabia. Biotechnology & Biotechnological Equipment, 30:69-74.** **Khan,Shahid Ali , ELHanafy Amr A., Khan Ajmal, Anwar Yasir, Shah Zarbad and Maher Saima (2016). Phytochemical Investigation of Conyza canadensis (L.). Middle-East Journal of Scientific Research 24: 1104-1111.** **El Hanafy Amr A., Qureshi Muhammad I., Sabir Jamal, Mutawakil Mohamed, Ahmed Mohamed M. M., El Ashmaoui Hassan, Ramadan Hassan A. I., Abou-Alsoud Mohamed and Abdel Sadek Mahmoud (2015). Nucleotide Sequencing and DNA Polymorphism Studies of β-Lactoglobulin Gene in Native Saudi Goat**

Breeds in Relation to Milk Yield. Czech Journal of Animal Science 60:132-138.

El Hanafy Amr A., Qureshi Muhammad I., Sabir Jamal, Mutawakil Mohamed, Ahmed Mohamed M. M., El Ashmaoui Hassan, Ramadan Hassan A. I., Abou-Alsoud Mohamed and Abdel Sadek Mahmoud (2014). DNA Polymorphism Studies of β-Lactoglobulin Gene in Saudi Goats. International Journal of Biological, Biomolecular, Agricultural, Food and Biotechnological Engineering, 8:1395-1398.

El Hanafy Amr A., Qureshi Muhammad I., Sabir Jamal, Mutawakil Mohamed, Ahmed Mohamed M. M., El Ashmaoui Hassan, Ramadan Hassan A. I., Abou-(2014). DNA Polymorphism studies of α-Lactalbumin and β-Lactoglobulin Genes in Native Saudi Goat Breeds for Enhancing their Genetic Performance. In: in 20 International Conference Modern Trends in Zoology: Current and Advanced Practices 18-20 October-2014 Marriott Hotel, Zamalek, Cairo, Egypt.

El-Hanafy Amr A., ElKady Ayman, Sabir J. and Mutawakil M. (2015). Genetic Diversity Among Saudi Sheep Breeds As Detected by Random Amplified Polymorphic DNA Marker American-Eurasian J. Agric. & Environ. Sci., 15: 1641-1647.

Osman A M., AL Malki1 H. S., AL Harthi1 S. E., EL Hanafy Amr A., ELAshmaoui H. M., and ELShal M. F.(2015). Modulatory role of resveratrol on cytotoxic activity of cisplatin, sensitization and modification of cisplatin resistance in colorectal cancer cells. Molecular Medicine Reports 12: 1368-1374.

Sabir J., Mutwakil M., EL-Hanafy A., Al-Hejin A. 1, Abdel Sadek M., Abou-Alsoud M., Qureshi M. , Saini K. 1 and Ahmed M. (2014). Applying molecular tools for improving livestock performance: From DNA markers to next generation sequencing technologies. Journal of Food, Agriculture &

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Qureshi M., Sabir J., Mutwakil M., EL-Hanafy A., El Ashmaoui H., Ramadan H., Anwar Y. , Abdel Sadek M., Abou-Alsoud M.,. , Saini K. and Ahmed M. (2014). Review of modern strategies to enhance livestock genetic performance: Frommolecular markers to next-generation sequencing technologies in goats. Journal of Food, Agriculture & Environment 12: 1236 - 1245 .

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Gehan H Heeba Mahmoud, M. E., El Hanafy A. A. (2014). Anti-inflammatory potential of curcumin and quercetin in rats: Role of oxidative stress, heme oxygenase-1 and TNF-alpha. Toxicology and Industrial Health, 30: 551–560.

Mahrous Karima F. , Alakilli Saleha Y. M., Salem Lamiaa M, Abd El-Aziem Sekena H. , El-Hanafy Amr A (2013). Genetic diversity in Egyptian and Saudi goat breeds using microsatellite markers. J. Appl. Biosci., 72:5838– 5845.

Abdel-Rahman S.M., Mustafa Y.A., Abd Errasool H.A., El- Hanafy A.A. , Elmaghraby A.M (2013). Polymorphism in bmp-15 gene and its association with litter size in anglo-nubian goat. Biotechnology in Animal Husbandry 29: 675-683.

Abedin R. M. A., Amr A. El Hanafy, Sawsan Abd El-Latif, Samy A. El-Assar, Mayada S. Fadel (2013). ligninolytic oxidative system of fungi Egyptian isolates and their applications in the decolorization of industrialdyes. Biotechnol. & Biotechnol. Eq,27: 4269-4275. IF: 0.76

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Abdel-Razzak H. S., AlfrmawyA. M., Ibrahim H. M. and El-Hanafy Amr

	A.(2012). Genetic diversity in faba bean (vicia faba l.) using inter-simple sequence repeat (issr) markers and protein analysis. Life Science Journal , 9:497-503 . IF: 0.159. **Sabir Jamal. S. M., Mutawakil Mohammed H. Z., El-Hanafy Amr. A., Ahmed Mohamed M.(2012). Genetics similarity among four breeds of goat in Saudi Arabia detected by random amplified polymorphic DNA marker. African journal of Biotechnology, 11: 3958-3963.IF:0.565.** **Heeba Gehan H., EL-Hanafy Amr A. (2012). Nebivolol regulates eNOS and iNOS expressions and alleviates oxidative stress in cerebral ischemia/reperfusion injury in rats. Life Sciences, 90:388-395.IF:2.45.** **Abuo Gabal A Ashgan, Abd ELsalam E.Hassan, Abd Al-Aziz A.Samia., El-Hanafy Amr. A.,Mohamed E. Abdalla(2011). The use of biotechnology for biodegradation of paper manufacturing wastes (kraft lignin) via Egyptian bacterial isolates. Alexandria Science Exchange Journal, 32: 392-399.** **EL-Hanafy, Amr A., El-Saadani M A., Eissa M., Maharem G M. and Khalifa Z A. (2010). Polymorphism of β- lacto globulin gene in Barki and Damascus and their crossbred goats in relation to milk yield. Biotechnology in Animal Husbandry, 26: 1-12. http://www.istocar.bg.ac.rs/radovi9/01.%20Amr%20El-Hanafy%20engl.pdf** **EL-Hanafy, Amr A. and El-Saadani, M.A. (2009). fingerprinting of fecb gene in five Egyptian sheep breeds. Biotechnology in Animal Husbandry, 25: 205-212. http://www.istocar.bg.ac.yu/radovi7/05%20engl.%20Amr%20Al%20Hanafy.pdf** **EL-Hanafy, Amr. A. and Halima H. Salem. (2009). PCR-RFLP of IGFBP-3 Gene in Some Egyptian Sheep Breeds. American-Eurasian J. Agric. & Environ.**

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Abd-Elsalam, Hassan. E., Elsayed E. Hafez, Azhar A. Hussain and Amr. A. El-Hanafy and Amany G. Ali (2009). Isolation and Identification of Three-rings Polyaromatic Hydrocarbons (Anthracene and Phenanthrene) Degrading Bacteria. American-Eurasian J. Agric. & Environ. Sci. , 5 : 31- 38. http://www.idosi.org/aejaes/jaes5(1)/6.pdf

Redwan, EL-Rashdy, M., Ali Fahmy, Amr EL- Hanafy, Nawal Abd EL-Baky and Sobhy M.A. Sallam (2009). Ovine anti-rabies antibody production and evaluation. Comparative Immunology, Microbiology and Infectious Diseases ,32 :9-19 http://www.sciencedirect.com/science/journal/01479571

EL-Hanafy, Amr A, Hassan. E. Abd-Elsalam and Elsayed E. Hafez (2008). Molecular characterization of two native Egyptian ligninolytic bacterial strains. Journal of Applied Sciences Research, 4: 1291-1296. http://www.insinet.net/jasr/2008/1291-1296.pdf

Hafez, E. E., Mohamed Rashad, Hassan E. Abd-Elsalam and Amr A. EL-Hanafy (2008). The polyaromatic hydrocarbons as a serious environmental pollutants and the role of bioremediation to overcome this problem. Accepted for publication in "Environment, Helathy and Nutrition-Global Issues" jointly edited by S. K .Basu and S. Datta Banik, APH Publishing Corporation, New Delhi, India

EL-Hanafy, Amr. A, Hassan E. Abd-Elsalam and Elsayed E. Hafez (2007). Fingerprinting For the Lignin Degrading Bacteria from the Soil. Journal of Applied Sciences Research 3: 470-475. http://www.insinet.net/jasr/2007/470-475.pdf

Ahmed ,M. M. M. , S. M. Abdel-Rahman and Amr. A. El-Hanafy (2007). Application of species- specific polymerase chain reaction and cytocrome b gene for different meat species authentication. Biotechnology, 6: 426-430. http://www.ansijournals.com/biotech/2007/426-430.pdf

Hassan, G. A., A. A. EL-Hanafy, M. H. Sallem, B. A. Ali, M. M. Mohamed and S.EL-Zarkouni (2007). Effect of recombinant bovine somatotropin (rbST) on milk production, milk composition, and reproductive performance of lactating Egyptian buffaloes. Buffalo Journal , 1 :29-39.

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Helal, F. I. S.; M. A. EL-Ashry; H. M. EL-Sayed and A. M. EL-Hanafy (1998). Effect of supplementing selenium and vitamin E on some productive and reproductive traits of lactating Egyptian buffalo cows : I. Productive performance. J. Agric. Sci. Mansoura Univ., 23: 1901-1914.

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	Hanafy (1998). Effect of supplementing selenium and vitamin E on some productive and reproductive traits of lactating Egyptian buffalo cows : II.Reproductive performance. J. Agric. Sci. Mansoura Univ., 23: 1915-1927.