



# FAWZY YOUNIS



**Professor**

## SUMMARY

Interested and active in combating climate change and promoting sustainable development goals, in addition to my work as a professor and head of the acclimatization physiology unit at the Desert Research Center in Egypt. I participated in training climate ambassadors for Egypt and Africa, and also as a trainer for the carbon footprint for entrepreneurship in cooperation with the National Institute for Quality. The following are some of the main aspects of his efforts:



1. Scientific research: I conducted advanced research on the effects of climate change on the environment and sustainable development, which contributes to enhancing scientific understanding of these issues.

2. Policies and legislation: I contributed to developing policies and legislation aimed at reducing greenhouse gas emissions and promoting the use of renewable energy.

3. Awareness and education: I conduct awareness and educational efforts to raise awareness about climate change and its effects, which contributed to motivating the community to take action to reduce the negative effects resulting from climate change.

4. International cooperation: I participated in many international conferences and meetings related to climate change, the most recent of which was the COP29 Climate Summit in Baku, Azerbaijan, and the COP16 Desertification and Land Use Summit in Riyadh, Saudi Arabia, which contributes to enhancing international cooperation to address this challenge.

5. Sustainable development: I contributed to enhancing sustainable development by supporting projects that use environmentally friendly technologies and promoting climate action and sustainability.



## CONTACTS:

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## HOBBIES:

- READING
- ASKING QUESTIONS
- ECOLOGICAL CIVILIZATION

## • EDUCATION

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- 2005, Ph. D. in Animal Physiology, Faculty of Agriculture Al-Azhar University, Egypt. Title: "Interrelations of Interleukins and Stress Hormones in Shorn and Unshorn Sheep"
- 2000, M. Sc. Agric. in Animal Production, Faculty of Agriculture Menoufiya University, Menoufiya, Egypt.
- 1995, B. Sc. Agric. in Animal Production, Faculty of Agriculture Menoufiya University, Menoufiya, Egypt.

## • SCIENTIFIC CAREER

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- From 2020 till now Professor and Head of Adaption Unit, Animal Physiology Department, Animal Production and Poultry Division, Desert Research Center.
- From 2015 to 2020: Assistant Professor in Animal physiology, Animal Physiology Department, Animal Production and Poultry Division, Desert Research Center.
- From 2005 to 2015: Research Scientist in Animal physiology, Animal Physiology Department, Animal Production and Poultry Division, Desert Research Center.
- From 2001 to 2005: Assistant-Research, Animal Production and poultry Division, Desert Research Center.
- Before 2001: Assistant Research Officer, Animal Production and poultry Division, Desert Research Center.

## • PARTICIPANT CONFERENCES

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- Participation in Symposium on bio-diversity of our lives the effects of climate change. Held in December 10, 2010 at the Lecture Hall of the Bibliotheca Alexandrina Conference Center (BACC).
- Participation in the Eighth Annual Scientific Conference of Society of Physiological Sciences and their Applications. Sharm El Sheik, Egypt, October 6-9, 2010.
- Participation in EIA and Desertification training workshop for professional from Mashrek and Maghreb countries. Cairo, Egypt, December 14-21, 2008.
- Participation in the First Regional Forum for Livestock Development. Cairo, Egypt, April 13- 15, 2010.
- First MENANEE Conference on Environmental Economics and Sustainable Development. Held in October 25, 2007 at the Lecture Hall at the Bibliotheca Alexandrina Conference Center (BACC).
- The third Egyptian Syrian conference "The Agriculture and Food in the Arabian World", 6-9 November 2006, El-Minia University, El- Minia, Egypt.

## • SCIENTIFIC ACTIVITIES

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- Participation in My participation in the Desertification Summit in Riyadh COP16, Kingdom of Saudi Arabia, from December 2 to 13, 2024.
- Participation in the Climate Change Summit in Baku, Azerbaijan COP29 Which was from November 11 to 22, 2024. Participation in a number of side Events, the most important of which was related to open dialogues on climate change, which took place in many countries of the world on all continents.
- Participation in the World Urban Forum (WUF12) held in Cairo on 4 - 8 November 2024 in Cairo, Arab Republic of Egypt.
- Participation in the training course held at the Desert Research Center in cooperation with the Animal Production Division within the training program improving the productivity of farm animals in desert and newly reclaimed areas with a lecture "Smart Agriculture is the Future of Egyptian Agriculture" on 12-15 June 2022.
- Participation in a training lecture in cooperation with the Wildlife and Sustainable Development Team and the Animal Production Division at Desert Research Center with a lecture entitled "Climate Change and Global Food Security" on June 18, 2022.
- Participated on Online International conference on Impact of Russia Ukraine War on Business & Economics" by presentation "Food Security and the Consequences of Climate Change (FSCCC)" organized by Haldia Institute of management in collaboration with Tumkur University (Govt. of Karnataka) & Haldia Institute of technology. Holed on 6-8, June 2022.

- Participated on Climate Change Adaptation Strategies for Buildings and Horticulture, First workshop program (CCASH-1). By presentation "Climate Change, Agriculture and Food Security" Held on 25-26, May 2022.
- Training of Africa Climate Change Ambassador Program (ACCAP) Giving a Lecture Entitled "Climate Change and Biodiversity: Adaptation and Mitigation" Held on 22 February 2022.
- Participation in the Environmental Forum of South Valley University By a lecture on "Climate Changes and Methods of Confronting It" on 23-24 February 2022.
- Training of Egypt's climate ambassadors in the training program for the qualification of climate ambassadors with a lecture "How to face climate changes our lives, our future and our planet are in danger. So, what should be done???" This will be from November 13-18, 2021.
- Participation in the general symposium held at the Modern Academy of Engineering and
- Technology (Modern Academy) with a lecture on "Climate Adaptation and Building Knowledge Capacity on Environmental Issues" on March 3, 2022.
- Participation in the Environmental Forum (Climate Adaptation and Capacity Building) held at South Valley University, Qena Governorate, on February 23-24, 2022.
- Attendance at the Environmental Forum 2022 and its theme is sustainable development and Egypt's vision, which is held at the Faculty of Science, Tanta University 2030, on February 22, 2022.
- Attending and participating in the public conference on civil society and addressing climate change, which was held at the Trade Union Association in Banha City, Qalyubia Governorate, on January 22, 2022.
- Participation in the Arab Week for Sustainable Development from February 13-15, 2022.
- The climate conference of Al-Azhar University, Climate Change: Challenges and Appreciation, in Cairo, during December 18-20, 2021.
- Participation in the international workshop on: Climate Smart Agriculture in Egypt and China. Organized by the Agricultural and Biological Division of the National Research Center - Egypt. In 22 March 2018.
- Participation and discussion in the symposium: Agricultural Expert Systems. Organized by the Agricultural and Biological Division of the National Research Center on 3 January 2018.
- Participation in the Symposium on: Land-based agriculture and food production challenges organized by the National Committee for Biological Sciences. At the Academy of Scientific Research on 21 November 2017.
- Participation in the training workshop on: Innovation Technology and Patents. Held at the National Research Center on 23 August 2017.

- Participation in summer training program entitled: Biological Sciences and Human Resources Development within the members of the jury committees organized by the Animal and Poultry Production Division of the Desert Research Center from 9 to 20 July 2017.
- Participated in the conference under the title: Advanced technologies and applications in agriculture. Was held at the National Research Center from 27 to 29 March 2017.
- Participation in the fifth scientific symposium under the title of innovative technologies in camel production, held at the Desert Research Center, September 24, 2016.
- Participation in the activities of the final meeting of the project of PROCAMID: Strengthening the innovative systems in camel breeding and development of local sectors of the coastal region, held in Alexandria, Egypt, from 15 to 17 December 2015.
- Participation in the International Conference on Environment and Agriculture and Their Role in Sustainable Development held at the Desert Research Center on 25-27 May 2015.
- Participated in the fourth scientific symposium entitled: Camel in the Animal Production System, affiliated with the Research Center of the Desert Research Center on 28 March 2015. Training course on monitoring and combating elements of desert land degradation. Held at the headquarters of Desert Research Center Cairo, Egypt, from 28 December 2014 to 1 January 2015.
- Attended and participated in figures the second scientific symposium under the title "Camel meat, food, medicine" Held in Desert Research Center. Cairo, Egypt, March 27, 2010.
- International Computer Driving License (ICDL) through the grant of the Ministry of Communications and Communication Technology for Universities and Research Centers in Egypt. Serial Number EGY000261398, at 9 December 2009.
- Participated in the Second International Conference of Natural Resources in Africa "Sustainable Development of Natural Resources in The Nile Basin Countries" Held in Institute of African Research and studies, Cairo university, Cairo, Egypt, May 11-12, 2009.
- Participated in training course on "South Valley hopes the future of agriculture and optimal strategy development" Held in Desert Research Center. Cairo, Egypt, May 3-7, 2009.
- Attend and participated in figures the first scientific symposium under the title "Revelation is the future for the development of camels in Egypt" Held in Marute Research Station Belonging to Desert Research Center. April 29, 2009.
- Ministry of Agriculture and Land Reclamation, Agriculture Research Center, Animal Reproduction Research Institute. "Different uses of Polymerase Chain Reaction" Cairo, Egypt, April 12-16, 2009.
- Ministry of Agriculture and Land Reclamation, Agriculture Research Center, Animal Reproduction Research Institute. "Modern immunological techniques in raising the efficiency of animal farm" Cairo, Egypt, from March 29 to April 2, 2009.

- Participated in EIA and Desertification Training Workshop for Professionals from the Mashrek and Maghreb countries. DRC in Collaboration with gtz, UNDP, IRA, FAO, and OSS. Cairo, Egypt, December 14-21, 2008.
- Attended training course in veterinary health management for farm animal's herds. Held in Desert Research Center, May 15-20 2004
- Attended training course in animal wealth development in newly reclaimed and deserts areas. Held in Desert Research Center, November 3-12, 2001.
- Attended training course in agriculture development in Egyptian desert regions (constraints & solutions). Held in Desert Research Center, November 18-23, 2000.

## • LIST OF PUBLICATIONS

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- Ammar, E. E., Aziz, S. A., Zou, X., Elmasry, S. A., Ghosh, S., Khalaf, B. M., ... & Younis, F. E. (2024). An in-depth review on the concept of digital farming. *Environment, Development and Sustainability*, 1-27.
- Atta, A. S., El-Shourbagy, I., Gawish, H. A., El-Metwaly, H. A., Younis, F. E. and Salem, M. (2021). Farming and pastoral systems shape the physiological and immunological indices of the dromedary she-camels. *International Journal of Cancer and Biomedical Research*, 5 (1), 49-63
- Younis F. E. (2020). Impact of heat stress on physiological, hematological, biochemical, electrolytic, immunologic and antioxidant parameters in Baladi and Shami goats of Egypt. *Animal Science Reporter (e-edition)*, Vol. 13, Issue 1, January.
- Younis F. E. (2020). Expression pattern of heat shock proteins genes in sheep. Mansoura Abd El-Hamid, I, S.; Younis, F. E.; Farrag, B.; El-Rayes, M. A-H and Shedeed, H, A. *Veterinary Medical Journal* 21:1.
- (2019). Influence of organic or inorganic forms of salts rich in phosphorus, copper and zinc on reproduction, productivity and blood constituents in sheep. *Australian Journal of Basic and Applied Sciences*, June; 13(6): pages 14-22.
- Rateb, S.A.; Abd El-Hamid, I.S.; Khalifa, M.A.; Ibrahim, N.H.; Younis, F. E.; and El-Rayes, M. (2019). Influence of clomiphene citrate on induced ovarian hyperstimulation and subsequent fertility in Damascus goats. *Small Ruminant Research* 175: 37-45.
- Younis, F. E. and Reda, A. Abd-Elazem (2019). Effect of Supplementation of Rumen- Protected Amino Acids to Barki Sheep on Some Blood Parameters. *International Journal of Environment. Agriculture and Biotechnology (JEAB)* Vol-4, Issue-5, Sep-Oct.
- Ibrahim, N. H.; El-Hawy, A. S.; El-Bassiony, M. F.; Younis F.E. and Abo-Bakr S. (2018). Effect of feeding salt tolerant plants silage on productive performance and blood biochemical changes of Barki ewes and their lambs during the first month post-partum. *J. Animal and Poultry Prod., Mansoura Univ.*, Vol.9 (8): 337-344.

- Younis F.E.; Basyony M. A.; Abou-Elezz S.S.; El-Bolkiny Y.E. and El-Shehry S.T. (2018). Comparative study of heat stress effect on thermoregulatory and physiological responses of baladi and shami goats in Egypt. *J. Animal and Poultry Prod., Mansoura Univ.*, Vol.9 (6): 271-275.
- Helal, H.G.; Younis, F.E.; Ibrahim, N.H.; Badawy, H.S.; Nassar, M.S.; Eid, E.Y. and El Shaer, H.M. (2017). Nutritional and Physiological Performance of Shami Female Goats Fed Salt Tolerant Plants During Pregnancy Under Desert Conditions. *Research Journal of Animal and Veterinary Sciences*, June 9 (2): pages 8-15.
- Abd El-Hamid, I. S.; Ibrahim, N. H.; Farrag, B.; Younis, F. E. and Wahba, I. A. (2017). Reproductive and Productive Efficiency of Damascus and Baladi goats under Egyptian arid conditions. *Research Journal of Animal and Veterinary Sciences*, January; 9(1): pages 6-14.
- Hanan, Z. Amer.; Ibrahim, N. H.; Donia, G. R.; Younis, F. E. and Shaker, Y. M (2014). Scrutinizing of Trace Elements and Antioxidant Enzymes Changes in Barki Ewes Fed Salt- Tolerant Plants under South Sinai Conditions. *Journal of American Science*, 10 (2).
- Shaker, Y.M.; Ibrahim, N.H.; Younis, F. E. and El Shaer, H.M. (2014). Effect of Feeding Some Salt Tolerant Fodder Shrubs Mixture on Physiological Performance of Shami Goats in Southern Sinai, Egypt. *Journal of American Science*, 10 (2s).
- Donia, G.R.; Ibrahim, N.H.; Shaker, Y.M.; Younis, F.M. and Hanan, Z. Amer2, (2014). Liver and Kidney Functions and Blood Minerals of Shami Goats Fed Salt Tolerant Plants under the Arid Conditions of Southern Sinai, Egypt. *Journal of American Science*, 10 (3).
- Younis F. E.; A. A. Zaghloul and I. S. Abd El-Hamid (2012). The effect of dietary supplementation with calcium soaps of poly unsaturated fatty acids on adaptive traits in sheep. *J. Animal and Poultry Prod., Mansoura Univ.*, vol. 3 (5): 241-251.
- Younis F. E.; K. Z. Kewan and W. A. Ramadan (2012). Impact of agro\_industrial by- products on sheep performance under semi-arid conditions. *J. Animal and Poultry Prod., Mansoura Univ.*, Vol.3 (6): 253-265.
- Younis F. E.; W. H. Abd El-Ghany; A. Helal; and H. M. El Shaer (2012). Some hematological, physiological responses and coat characteristics of sheep fed on salt tolerant plants. *Egypt. J. of Basic and Appl. Physiol.*, 11 (2).
- Abd El-Ghany, W. H.; Younis F.E.; Ramadan W. A. M.; Ibrahim N. H. And El Shaer H. M. (2012). Effect of feeding on salt tolerant plants on physical and chemical properties of coat fibers in sheep. *J. Animal and Poultry Prod., Mansoura Univ.*, Vol.3 (11): 485-496.
- Younis F. E.; Abou El-Ezz S. S. and El-Moghazy M. M. (2011). Impact of climate change on livestock. Ninth Scientific Conference of Society of Physiological Sciences and their Applications, at Hurghada.
- Abou El-Ezz S. S. and Younis F. E. (2011). Role of biotechnology for improving livestock production. Ninth Scientific Conference of Society of Physiological Sciences and their Applications, at Hurghada.
- Younis F. E. (2011). Impact of wells water on survival of small ruminant in Shalateen - Halaib triangle region, Egypt. *J. of Basic and Appl. Physiol.*, 10 (2): 297-310.

- Abd El-Ghany W.H. and Younis F. E. (2010). The role of hair coat and heat storage in adaptation of camels under desert conditions. Egypt. J. of Basic and Appl. Physiol., 9 (2): 161-173.
- Abd Y El-Ghany W. H. and Younis F. E. (2010). Impact of immune-response and wool coat in adaptability of sheep. Egypt. J. of Basic and Appl. Physiol., 9 (2): 277-290.
- Younis F. E. and Abou El-Ezz S. S. (2010). How do cytokines influence stress responses? Eighth Scientific Conference of Society of Physiological Sciences and their Applications, at Sharm El-Sheik.
- Abou El-Ezz S. S. and Younis F. E. (2010). Salt and Trace Minerals for Livestock and Other Animals-A review Eighth Scientific Conference of Society of Physiological Sciences and their Applications, at Sharm El-Sheik.
- Younis F. E. (2009). Dietary selenium changes and its relation with adaptability in small ruminants. J. Agri. Sci. Mansoura Univ., 34 (12): 10965-10975.
- Younis F. E. and Abd El-Ghany, W. H. (2006). The role of immune-endocrine systems on adaptability of sheep. Proc. 3rd Egypt. & Syr. Conf. for Agriculture and Food in the Arab World, El Minia, Vol. 3 No. 2, (155-165).

## • SKILL HIGHLIGHTS

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- ✓ Laboratory diagnostic equipment
- ✓ Accomplished in hematology
- ✓ Sample checking
- ✓ Excellent lab practices
- ✓ Quality control procedures
- ✓ Lab equipment calibration
- ✓ Complex problem solver
- ✓ Knowledge of molecular techniques
- ✓ Sustainable development
- ✓ Climate Smart Agriculture
- ✓ Climate Change: Adaptation and Mitigation
- ✓ Precision Agriculture and Internet of Things
- ✓ Environmental and Carbon Footprints

## • PROFESSIONAL EXPERIENCE

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### 06/2000 - Current Desert Research Center, Cairo, Egypt

- Closely followed trends and techniques in medical laboratory testing.
- Correctly prepared laboratory equipment and instrumentation required for tests, research, process or quality control.
- Routinely performed medical laboratory tests, procedures, experiments and analyses to provide data for research studies.
- Created detailed reports summarizing data collected in the laboratory for the research and development, regulatory affairs and marketing teams.
- Oriented new technicians to the proper operation and function of the automated interpretation machine.

## • EDUCATION AND TRAINING

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### Contributions to the COP29 Climate Conference and the COP16 Desertification and Land Use Conference.

#### • Major Achievements:

1. Active participation: recently I'm participated in the COP29 Climate Conference and the COP16 Desertification and Land Use Conference as effective contributors to discussions and meetings to promote sustainable development goals locally, regionally and internationally.
2. Technical expertise: I share my technical expertise in the field of climate change and sustainable development, which contributes to enhancing scientific understanding of these vital issues and highlighting their relationship to the issue of water security and food security.
3. Cooperation with international organizations: I cooperate with international organizations such as the United Nations and the World Meteorological Organization to enhance international cooperation to address climate change and promote sustainable development goals.
4. Supporting policies and legislation: I participate in highlighting local, regional and international policies and legislation that aim to reduce greenhouse gas emissions and promote the use of renewable energy.
5. Awareness and education: I help with awareness and education efforts to raise awareness about climate change and its effects (capacity building in climate action and environmental sustainability), which contributes to motivating society to take the necessary measures to confront challenges and reduce them through mitigation and adaptation.

#### • Most important achievements:

1. Awareness: I contribute with modest expertise to raising awareness about climate change and its effects.
2. Promoting international cooperation: I contribute to enhancing international cooperation to address climate change.

3. Supporting sustainable development: I contribute to promoting sustainable development by supporting projects that use environmentally friendly technologies and promote sustainability.

#### 4. Policy and Legislation Development (CBAM):

CBAM (Carbon Border Adjustment Mechanism) is a carbon border mechanism proposed by the European Union as part of the European Green Deal plans and is part of its efforts to achieve carbon neutrality by 2050. This mechanism aims to impose a fee on products imported into the EU based on their carbon emissions during their production process. Also contribute to the development of policies aimed at reducing greenhouse gas emissions through mitigation, carbon footprint estimation, and promoting the use of renewable energy.

### • COMMUNITY SERVICE

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- ✓ Since the conclusion of the Climate Change Conference, (COP27) in Egypt, in cooperation with the European Union's Open Dialogue on Climate Change Foundation, which is an activist and observer of the United Nations Convention on the Parties from Madrid COP25 to Baku COP29, the Open Dialogue on Climate Change Department continues to work towards achieving its goals of building the capacity of individuals and institutions in various sectors. This dialogue aims to enable academic institutions, the private sector, and civil society organizations to understand the impacts of climate change and develop sustainable responses to it, whether through mitigation or adaptation with resilience. It also seeks to enhance cooperation between stakeholders through the exchange of knowledge and experiences, and the development of innovative policies that contribute to achieving adaptation to climate change and mitigating its effects. This dialogue is a strategic platform to stimulate innovation and learning, supporting national and international efforts to achieve sustainable development and effectively address climate challenges.
- ✓ Cooperation with Ain Shams University through the College of Graduate Studies and Environmental Research to train climate ambassadors in Egypt and Africa on recognizing and raising the knowledge capacities of young people in the field of sustainable development and climate change in preparation for Egypt's reception of COP27 hold on November 2022, in addition to the meeting many lectures in public libraries in Cairo, Alexandria and some Upper Egypt governorates, and in cooperation with several Egyptian universities, to raise knowledge capabilities on sustainable development, especially the issue of climate change.
- ✓ Working in many research stations affiliated station Siwa and the Center for Sustainable Development of the resources of Matrouh and gets Errand to various research stations of the center for research aimed at Service and Environmental Developments.
- ✓ Writing many scientific articles related to the issue of sustainable development and climate change, or participating in scientific conferences in the Arab Republic of Egypt and outside the Arab Republic of Egypt, in addition to recording a number of radio and television interviews related to raising knowledge capabilities for the issue of climate change and sustainable development.
- ✓ <https://greenfue.com/tag/%d8%af-%d9%81%d9%88%d8%b2%d9%8a-%d9%8a%d9%88%d9%86%d8%b3/>
- ✓ Community activity through participation with civil society through some community.