

**C.V**  
**Dr. Sedhom A. Sedhom**



- NAME:** Sedhom Asaad Sedhom
- AFFILIATION:** Corn Breeder and statistical agronomist, Faculty of Agric. Moshtohor Benha University, Egypt.
- POSITION :** Professor of Agron. Dept. Fac. Agric., Benha Univ.
- ADDRESS:** Agronomy Department, Faculty of Agriculture at Moshtohor, Tukh, Kalubia, Egypt.
- DATE OF BIRTH:** May, 13, 1954
- PLACE OF BIRTH:** Aolad Sakr, Sharkia, Egypt.
- PHONE :** 0552344135 - 0123857897
- E MAIL** [Sedhomasaad@yahoo.com](mailto:Sedhomasaad@yahoo.com)
- MARITAL STATUS:** Married with 4 children
- EDUCATION**
- Bachelor of Science (Agriculture) Zagazig University, 1976.
  - Master of Science (Agronomy), Faculty of Agriculture, at Moshtohor, Zagazig University, 1980. Thesis's title "Gamma Ray Effects on Egyptian Clover".
  - Ph. D. Crop Breeding, Agronomy Department, Faculty of Agriculture, Moshtohor, Zagazig University, 1984. Thesis Title "[Study on Late Wilt Disease Resistance in Maize](#)".
- PROFESSIONAL CAREER**
- Demonstrator, Faculty of Agriculture, Moshtohor from September 19, 1977 to December 30, 1980.
  - Assistant Lecturer, Same Faculty, from December 31, 1980 to September 18, 1984.
  - Lecturer, same Faculty, from September 19, 1984 to November 15, 1988.
  - Assistant Professor, same Faculty, from November 16, 1988 to August 15, 1994.
  - Professor, same Faculty, from August 16, 1994 until now.
- LANGUAGE**
- PROFICIENCY** - English and Arabic
- MEMBERSHIP**
- The Egyptian Society of Agronomy
  - The Egyptian Society of Plant Breeding

## TEACHING AND SUPERVISION

- Teaching the following courses for the under graduate and post graduate students:
  - Plant Breeding
  - Breeding Field Crops ,
  - Breeding for disease and insect resistance
  - Statistical Analysis and Experimental Design
  - Biometrics
  - Computer sciences.
  - Biotechnology Computer Application
  - Use of computer in statistical analysis.

## OTHER

### ACTIVITIES

- Teaching two obligatory courses for all ph. D students in the Faculty of agriculture, Moshtohor.
- Supervising twenty graduate students for M. Sc and Ph. D degree.
- Published 30 scientific papers in the area of Statistics and Breeding Field Crops.
- Manager of the computer center of the Faculty since 1992 till now and responsible for :
  - Teaching computer courses for under- graduate (Operating systems, Win XP, Office XP and Basic Language .
  - Teaching computer sciences for English programs (biotechnology & Food Safety).
  - Teaching Statistical Programs (SAS, SPSS, MSTATC) as well as Word Processing, Access and Excel programs for post graduate students.
  - Designing programs for biometrics and experimental designs and analysis.
  - Designing programs for the control to prepare the final results of all students.
  - Designing computer programs to cover the administration tasks.
- Visited the United States of America from January 1987 to September 1987 to participate in breeding and statistical programs at Auburn University (Alabama) in cooperation with Prof. Dr. David Weaver.
- Participated in the National Agricultural Research Project (NARP) for increasing the productivity of forage crops in South Delta.
- Participated in the National Campaign for increasing Maize productivity in Egypt from 1993 until now.
- Manger of the Quality Assurance and Accreditation Unit of the Faculty of Agric., Moshtohor.
- Responsible for education development programs in the Faculty of Agric. Benha University.

- Participated in training workshops for training of trainers (**TOT**). And training Benha Univ. Staff members on Fundamentals of scientific Research, Research Ethics, Team Work Management and Scientific Publishing.
- Participated in several workshops concerning Quality Assurance and Accreditation held in Cairo, Ain Shams, Zagazig, Mansoura and Benha universities.
- Participated in QAAP project as a Peer Reviewer in Faculties of Agric. : Ain Shams , Alexandria, Shebein El Kom, and El Fayioum Universities.
- The principal Investigator of the project: [Application of molecular markers for developing promising hybrid corn tolerant to drought, financed by Benha University](#) (2017-2019).
- The principal Investigator of the rice project as a mutual cooperation between Egypt and China under the title "[Genetic mapping for early heading and yield trait genes of Chinese and Egyptian rice varieties](#)" (2018- 2021).

### List of publication:

- Shafshak, S.K.; A. Shoker El- Sayed, A. El- Hosary, A. Sadek and **S.A. Sedhom** (1986): Breeding studies on maize. I- Late wilt disease resistance. Ann. of Agric. Sc., Moshtohor, 32(1): 1321- 1333.
- Shafshak, S.E.; F.E. Oraby, A. Shoker El- Sayed, A. El- Hosary, and **S.A. Sedhom** (1986): Breeding studies on maize. II- Yield and some of its components. Ann. of Agric. Sc., Moshtohor, 32(1): 1334- 1345.
- Shafshak, S.E., G.Y. Hammam, **S.A. Sedhom** and K.A. El- Doby (1987): Grain yield of maize as affected by plant density and distribution patterns. Egypt. J. Appl. Sci., Supplementary Issue, 11- 20.
- Sedhom, S.A.** (1988): Estimation of some genetic parameters in maize. Egypt. J. Appl. Sci., 24(3): 264- 273.
- Sedhom, S.A.** and S.A. Seif (1988): Effect of mixing cereal- grasses with fahl berseem on the forage production and botanical practices. Egypt. J. Appl. Sci., 3(2): 231- 243.
- El- Hosary, A.A. and **S.A. Sedhom** (1988): Heterosis and combining ability for yield and its components in field beans (*Vicia faba*, L.). Egypt. J. Agron. 14(1&2): 1- 12.

- Seif, S.A , **S.A. Sedhom** and F.T. Zenhom (1988): Effect of various level of nitrogen and phosphorus on forage yield of Italian ryegrass. Egypt. J. Appl. Sci., 392): 244- 255.
- Weaver, D.B., **S.A. Sedhom**, E.F. Smith and P.A. Backman (1988): Field and greenhouse evaluation of stem canker resistance in soybean. Crop Science, 28(4): 626- 630.
- El- Hosary, A.A. and **S.A. Sedhom** (1989): Evaluation of some new synthetic varieties of maize. Ann. Agric. Sc., Moshtohor, 27(3): 1527- 1534.
- El- Hosary, A.A., **S.A. Sedhom** and S.A. Mohamed (1989): Correlation and path coefficient studies in maize. Ann. of Agric. Sc., Moshtohor, 27(3): 1517- 1525.
- El- Hosary, A.A. and **S.A. Sedhom** (1990): Evaluation of some new lines of faba bean (*Vicia faba*, L.). Proc. 4<sup>th</sup> Conf. Agron., Cairo, 15- 16 Sept. (1): 435- 445.
- El- Hosary, A.A. and **S.A. Sedhom** (1990): Diallel analysis of yield and other agronomic characters in maize (*Zea mays*, L.). Ann. of Agric. Sc., Moshtohor, 28(4): 1989- 1998.
- Sedhom, S.A.** (1992): Development and evaluation of some new inbred lines of maize. Proc. 5<sup>th</sup> Conf., Zagazig, 13- 15 Sept, (1): 269- 280.
- El- Hosary, A.A., K.A. El- Shouny, **S.A. Sedhom** and S.A. Afiah (1992): Breeding studies on *Brassica nupus* L. 1- Growth and yield characteristics. Proc. 5<sup>th</sup> Conf. Agron. Zagazig, 13- 15 Sep. (2): 918- 932.
- El- Hosary, A.A., K.A. El- Shouny, **S.A. Sedhom** and S.A. Afiah (1992): Breeding studies on *Brassica nupus* L. 2- Seed oil content and fatty acids. Proc. 5<sup>th</sup> Conf. Agron. Zagazig, 13- 15 Sep. (2): 933- 944.
- Sedhom, S.A.** (1993): Estimation of genetic variance components in a composite variety of maize (*Zea mays* L.). Egypt. J. Appl. Sci., 8 (7): 553- 561.
- Sedhom, S.A** and A.M. Mahdy (1993): Inheritance of resistance to late wilt disease in maize caused by *Cephalosporium maydis*. Ann. Of Agric. Sc., Moshtohor, 31(4): 1787- 1795.
- Mohamed, M.K. and **S.A. Sedhom** (1993): A comparison between statistical procedures of relating yield components in a set of corn varieties. Ann. of Agric., Moshtohor, 31(4): 1855- 1866.

- Sedhom, S.A** (1994): Genetic analysis of diallel crosses in maize (*Zea mays*, L.) over two years. Ann. of Agric. Sc., Moshtohor, 32(1): 95- 107.
- Sedhom, S.A.** (1994): Stability parameters for grain yield of some maize genotypes. Ann. of Agric. Sc., Moshtohor, 32(1): 109- 117.
- Sedhom, S.A.** (1994): Estimation of general and specific combining ability in maize under two different planting dates. Ann. of Agric. Sc., Moshtohor, 32(1): 119- 130.
- Sedhom, S.A.** (1994): Genetic study on some top crosses in maize under two environments. Ann. of Agric. Sc., Moshtohor, 32(1): 131- 141.
- Sedhom, S.A. (1994):** Genetic components of yield and some other traits in maize (*Zea mays*, L.). Egypt. J. Appl. Sci., 9 (5): 881- 891.
- Shafshak, S.E., G.Y. Hammam. **S.A. Sedhom** and K.A. El- Douby (1994): Intercropping maize and soybean under various population densities as well as different planting dates. Zagazig J. Agric. Res. 21(3A): 729- 747.
- Shafshak, S.E., G.Y. Hammam. **S.A. Sedhom** and K.A. El- Douby (1994): Intercropping maize and sunflower under various population densities as well as different planting dates. Zagazig J. Agric. Res. 21(3A): 749- 765.
- A.E. El- Debaby, S.E. Shafshak, S.A. Seif, and **S.A. Sedhom** (1994): Effect of sowing methods and seeding rate on growth and yield of some berseem clover (*Trifolium alexandrinum*, L.). Egypt. J. Appl. Sci., 9 (6): 723- 734.
- A.E. El- Debaby, S.E. Shafshak, **S.A. Sedhom** and S.A. Seif (1994): Evaluating forage crop potentialities of two annual winter grasses as affected by sowing methods and nitrogen levels. Egypt. J. Appl. Sci., 9 (6): 735- 743.
- Shafshak, S.E., A.E. El- Debaby, **S.A. Sedhom** and S.A. Seif (1994): Effect of seeding rate and nitrogen fertilization levels on the productivity of two cultivars of Italian Ryegrass. Egypt. J. Appl. Sci., 9 (6): 744- 753.
- Shafshak, S.E., A.E. El- Debaby, S.A. Seif and **S.A. Sedhom** (1994): Comparative study of yield potentialities of different summer grasses under various nitrogen levels. Egypt. J. Appl. Sci., 9 (6): 754- 763.
- El- Sayed Hefni, M.H., **S.A. Sedhom**, M.I.M. Salwau and A.H. Assran (1997): Effect of nitrogen and phosphorus on some sweet sorghum cultivars.

Proc. of the International Conf. on Sugar and sugar substitutes in food processing & nutrition, October, 14- 16, 1977.

El- Hosary, A.A., **S.A. Sedhom**, M.H. Bastawisy and M.H. El- Mahdy (1998): Diallel analysis of some quantitative characters in faba bean (*Vicia faba* L.). Proc. 8<sup>th</sup> Conf. Agron., Suez Canal Univ., Ismailia, 28- 29 Nov, 256- 267.

**Sedhom, S.A.** , Saad, A.M, M.E. El- Badawy, and A. A. El- Hosary (2007): Genetic and biotechnological studies for some important traits in maize (*Zea mays* L.) Ann. of Agric. Moshtohor, 45(1): 1- 20.

El-Hosary, A.A., **S.A. Sedhom**, S.A. El-Badawy, M.El.M. El-Galfy and M.M. Morsy (2009). Heterosis and combining ability for some important traits in maize. Ann. Of Agric. Sc. Moshtohor, 47(1): 1- 13.

El-Badawy, M.El.M., **S.A. Sedhom**, A.M. Morsy, and A.A.A. El-Hosary (2010). Combining ability in maize (*Zea mays* L.) under two nitrogen rates and genetic distance determined by RAPD markers. The International Conf. Agron. 20- 22 Sept, El Arish, 106- 129.

**Sedhom, S.A.**; M.H. Tag El Din, M.E. El Badawy and M.A. El Bakey (2012). Breeding for grain yield, yield components and quality traits in yellow maize (*Zea mays*, L.). Proc. 13th Int. Conf. Agron. Fac. Of Agric. Benha Univ., Egypt, 9- 10 September, 332- 351.

**Sedhom, S.A.**; A.A. EL-Hosary; M.EL M. EL-Badawy, M.EL.M.; T.A.E. Saafan, T.A.E., A.A.A. El Hosary and M.A. Gaber (2016). Diallel cross analysis for yield, its components and resistance to borer in corn. Egypt. J. Plant Breed. 20 (4):716 -732 .

**Sedhom S.A.**, M.EL. El-Badawy, EL .I. A., El-Deeb , A.A.A. El-Hosary and I.M.A. Salem (2016). Heterosis And Combining Ability For Some Important Traits In Flax (*Linum uestitismum*, L.), Egypt. J. Plant Breed. 20 (4):44 -59. 2016

El-Hosary, A.A., , , **S.A. Sedhom**, G.Y. Hmam W.A. EL-Sawy and A.A.A. EL-Hosary and A.M. Shawky (2016). Estimation Of Combining Ability In Groundnut (*Arachis hypogaea* L.) under two sowing dates. *Egypt. J. Plant Breed.* 20 (4):81 -95. 2016.

EL-Hosary A.A., **Sedhom S.A.**; EL-Badawy, M.EL.M.; Saafan, T.A.E., El Hosary A.A.A. and Gaber M. A (2016). Studies on resistance to borer in corn I. Dead heart%, intensity of damage, grain yield and yield loss. Egypt. J. Plant Breed. 20 (4):96 -107. 2016.



- El-Hosary, A. A., **Sedhom, A. S.**, Allam, S. A. H., Abo-Kaied, H. M. H., El-Hosary, A. A. A. and Ebied, M. A. (2016). Phenotypic And Genotypic Stability Analysis For Some Flax Genotypes. *Egypt. J. Plant Breed.* 20 (4):560 -576 . 2016.
- Al Saadoon A.W., A.A. EL Hosary, **A. S. Sedhom**, M.EL.M. EL-Badawy, A.A.A. Hosary (2017). Genetic analysis of diallel crosses in wheat under stress and normal irrigation treatments. *Egypt. J. Plant Breed.* 21 (5): 279-292.
- Omnya H. Tuekey, **S.A. Sedhom**, M.EL-M. El-Badawy and A.A.A. El-Hosary (2018). Combining ability analysis using diallel crosses among seven inbred lines of corn under two sowing dates. *Annals of Agric. Sci., Moshtohor*, 56(2): 293- 304.
- El-Hosary, A.A., **S.A. Sedhom**, M.K. Khalifa, A.A.A. El-Hosary and K.A> Bayoumi (2020). Efficiency of three breeding methods on three bread wheat populations. 5<sup>th</sup> International Conference on Biotechnology Applications in Agriculture (ICBAA), Benha University, Moshtohor and Hurghada, 8-11 April 2020, Egypt
- Ghoprial, M.A.S., **S.A. Sedhom**, M.A.A. Emara, E.M.M. EL-Gedwy and S.A.S. Mehasen (2021). Effect of Planting Patterns and Nk Fertilizers Levels under Two Planting Date on Yield and Yield Components of Egyptian cotton In Middle Egypt. *Annals of Agric. Sci., Moshtohor*, 59(3): 727- 734.
- Ghoprial, M.A.S., **S.A. Sedhom**, M.A.A. Emara, E.M.M. EL-Gedwy and S.A.S. Mehasen (2021). Effect of Planting Patterns and Nk Fertilizers Levels under Two Planting Date on Yield and Fiber Properties of Egyptian cotton In Middle Egypt. *Annals of Agric. Sci., Moshtohor*, 59(3): 721- 726
- Sedhom, S.A.** M. El. M. El-Badawy, A. A. A. El Hosary, M. S. Abd El-Latif, A. M. S. Rady, M.d M. A. Moustafa, S. A. Mohamed, O. A. M. Badr, S. A. Abo-Marzoka, K. A. Baiumy, and M. M. El-Nahas (2021). Molecular markers and GGE biplot analysis for selecting higher-yield and drought-tolerant maize hybrids. *Agronomy Journal*. 2021;113: 3871–3885. <https://doi.org/10.1002/agj2.20778>
- Badr, A.R., **S.A. Sedhom**, M.E. M. El-Badawy and A.A.A. El- Hosary (2022). Evaluation of Combining Ability for Some New Yellow Maize Inbred Lines Using Line X Tester Model. *Annals of Agric. Sci., Moshtohor*, 60(4): 1009- 1018.
- Bayoumi, A.T.A., M.E.M. El-Badawy, A.A.A. El-Hosary, Mi.I. Abou Yousef and **S.A. Sedhom** (2022). Assessment of genetic diversity, combining ability and photosynthetic parameters of some rice genotypes under two sowing dates. *Benha Journal of Applied Sciences (BJAS)*, 7:(1) 45- 62.

- El-Badawy, A.S., N.Kh. El\_Gizawy, G.Y. Hamman, M.I. Abo-Yousef and **S.A. Sedhom** (2022). Genetic diversity, combining ability, heterosis and antioxidant enzymes of some rice genotypes under normal and water deficit. Benha Journal of Applied Sciences (BJAS), 7:(1) 63- 79.
- Immam, M.T.H., **S.A. Sedhom**, G.A. Sary and A.M. Saad )2022). Superiority and Gene Action of Some New Promising Maize Crosses Under Two Nitrogen Levels. Annals of Agric. Sci., Moshtohor, 60(2): 393- 408.
- Sedhom, S.A.** M.E.M. El-Badawy, A.A.A. El-Hosary, M.A. Yousef, A.B. Elsehely and K.A. Baiumy (2022). Yield potentiality and photosynthetic parameters of some local and exotic elite rice genotypes. Proceedings of 1<sup>st</sup> Annual Conference of Post Graduate Studies for Applied Science, Benha University, 7-8 May, 2022.
- Soudy, A.M.A., **S.A. Sedhom**, A.M. Saad and S.A. Mehasen (2022). Heterosis and combining ability for some important traits of maize under two nitrogen fertilization levels. Annals of Agric. Sci., Moshtohor, 60(2): 347- 362.
- Taha, E.M.E., A.A. El-Hosary, **S.A. Sedhom** and S.A.S. Mehasen (2022). Efficiency of Two Breeding Methods on Flax Population. Annals of Agric. Sci., Moshtohor, 60(4): 1027- 1034.