

# REFERENCES

- Arias, J.; Williams, P.M. and Baradbeer, J.W. (1976).*  
 Studied in seed dormancy IX. The role of gibberellin biosynthesis and the release of bound gibberellin in the post-chilling accumulation of gibberellin in seeds of Corylus avellana L. .  
 Planta., 131:135-139.
- Bausher, M. G. and Yelenosky, C. (1987).*  
 Morphological changes in citrus associated with relatively high concentration of paclobutrazol.  
 J. Plant Growth Regul., 5:139-147.
- Beraud, J. and Penot, M. (1982).*  
 Action of phytohormones on ion absorption and transport in leaves of Pelargonium zonal.  
 Z Pflanzenphysiol., 106:399-400.
- Bewley, J.D. and Black, M. (1978).*  
 Physiological and biochemistry of seeds in relation to germination.  
 Springer., Berlin, Heidelberg, New York, (1).
- Bewley, J.D. and Black, M. (1982).*  
 Physiological and biochemistry of seeds in relation to germination.  
 Springer, Berlin, Heidelberg, New York, (3).
- Bianco, J.; Lasséchère, S. and Bulard, C. (1984).*  
 Gibberellins in dormant embryos of Pyrus malus L. cv. Golden delicious.  
 J. Plant Physiol., 116:185-188.
- Bittner, A. and Buschmann, C. (1983).*  
 Uptake and translocation of  $K^+$ ,  $Ca^{2+}$  and  $Mg^{2+}$  by seedlings of Raphanus sativus L. treated with kinetin.  
 Z Pflanzenphysiol., 109:181-189.
- Brown, J.B. and Lilliland, L.I. (1946).*  
 Rapid determination of potassium and sodium in plant material and soil extracts by flamphotometer.  
 Proc. Amer. Soc. Hort. Sci., 48:301-346.
- Brown, J.C.; Chaney, R.L. and Ambler, J.E. (1971).*  
 A new tomato mutant inefficient in the transport of iron.  
 Physiol. Plant., 25:48-53.
- Burrows, W.J. and Carr, D.J. (1970).*  
 Cytokinin content of pea seeds during growth and development.  
 Physiol. Planta., 23:64-74.

- Carpita, N.C. and Nabors, M.W. (1981).*  
Growth physics and water relations of red-light-induced germination in lettuce seeds . V. Promotion of elongation in the embryonic axes by gibberellins and phytochrome. *Planta.*, 152:1131-136.
- Chapman, W.G. and pratt, P.F. (1964).*  
Methods of analysis for soils, plant and water. Univ. of California, Division of Agric. Sci.
- Clarkson, D.T. and Hanson, J.B. (1980).*  
The mineral nutrition of higher plants. *Annu. Rev. Plant Physiol.*, 31:239-298.
- Cocucci, S.; Ranieri, A.M.; Morgutti, S. and Ciroli, F. (1981).*  
The role of darkness, GA and Fusicoccin (FC) in breaking photodormancy in Phacelia tanacetifolia seeds. *Physilo. Plant.*, 52:177-180.
- Corbineau, F. and Come, D. (1981).*  
Influence de 1 acide gibberellique sur la germination des graines d' Oldenlandia corymbosa L. (Rubiaceae tropicale). *Physiol. Veg.*, 19:353-365.
- Dahshan, D.I.; El-Shazly, S.A. and Abou Rawash, M. (1987).*  
Effect of seed coat removal, GA<sub>3</sub> and cold stratification on germination of apricot seeds and subsequent seedling growth. *Annals of Agric. Sci., Ain Shams Univ.*, 32 (3):1625-1635.
- Daines, R.J. and Minocha, S.C. (1983).*  
Regulation of phenylalanine ammonia-lyase in germinating lettuce seeds (Lactuca sativa L. cv. Grand Rapids): Effects of abscisic acid and water stress. *Z. Pflanzen physiol.*, 110:69-76.
- Dalziel, J. and Lawrence, A. (1984).*  
Biochemical and biological effects of kaurene oxidase inhibitors such as paclobutrazol. British plant growth regulator Group. Monograph 11, Wantage, England., :43-57.
- Devlin, M. and Witham, H. (1983).*  
Plant physiology. 4<sup>th</sup> Ed., Publishers Willard Grant Press, Boston.
- Dostál, R. (1967).*  
On integration in plants. Hrward Univ. Press.

- Edmond, J.B. and Drapala, W.J. (1958).*  
The effect of temperature, sand soil, and acetone on germination of okrea seeds.  
Proc. Amer. Soc. Hort. Sci., 71:428-434.
- Edwards, G. and Walker, D. (1983).*  
C<sub>3</sub> C<sub>4</sub>: Mechanisms, and cellular and environmental regulation, of photosynthesis.  
Blackwell. Oxford
- Eeuwens, C.J., and Schwabe, W.W. (1975).*  
Seed and podwall development in P. Sativum L. in relation to extracted and applied hormones.  
Journal of Experimental Bot., 26:1-14.
- Eisinger, W.; Croner, L.J. and Taiz, L. (1983).*  
Ethylene-induced lateral expansion in etiolated pea stems.  
Plant Physiol., 73:407-412.
- El Dash, and Johnson, J.A. (1970).*  
Influence of yeast fermentation and baking on the content of free amino acids and primary amino groups and their effect on bread aroma stimula.  
Cereal Chem., 47,3.
- El-Desouky, S.A. (1992).*  
Response of tomato plants (Lycopersicon esculentum Mill.) to some growth regulators.  
Egypt. J. of App. Sci., 7 (3):181-199.
- El-Motaze Billah, M. (1963).*  
Physiological studies on the nutrition of Garlic .  
M.Sc. Thesis, Fuc. of Agric., Cairo Univ.
- El-Shaarawi, A.F. and Megahed, A.A. (1976).*  
some morphological and histological responses of Phaseolus vulgarish L. to chloromequat (CCC) and gibberellic acid (GA<sub>3</sub>).  
Anna. of Agric. Sci., Moshtohor, 6:259-274.
- El-Zawily, A.I and Zayed (1985).*  
Studies on growth, productivity and some physiological aspects of eggplant. II-Interaction effect of gibberellic acid and nitrogen levels.  
J. Agric. Sci. Mansoura Univ., 10(1):175-182.
- El-Zawily, A.I.; Zayed, E.A. and Hassan, M.M (1985 b).*  
Studies on growth, productivity and some physiological aspects of eggplant. I. Comparison of some growth regulating substances.  
J. Agric. Sci. Mansoura Univ., 10 (1):166-174.

- Evins, W.H. and Varner, J.E. (1972).  
Hormonal control of polyribosome formation in barley aleurone layers.  
Plant Physiol., 49:348.
- Falchuk, K.H.; Ulpino, L.; Mazus, B. and Valee, B.L. (1977).  
E.gracilis RNA polymerase. I.A Zinc metalloenzyme.  
Biochem. Biophys. Res. Commun., 74:1206-1212.
- Funkhouser, E.A. and Price, C.A. (1974).  
Chloroplast RNA: Possible site of an early lesion in iron deficiency.  
Plant Cell Physiol., 15:883-889.
- Fushiya, S.; Takahashi, K.; Nakatsuyama, S. Sato, Y.; Nozoe, S. and Takagi, S.J. (1982).  
Co-occurrence of nicotianamine and avenic acids in Avena Sativa and Oryza Sativa.  
Phytochemistry 21, 1907-1908.
- Gehlot, H.S.; Vpadhyaya, A.; Davis, T.D. and Sankla, N. (1989).  
Growth and organogenesis in moth bean callus as affected by Paclobutrazol.  
Plant and cell Physiology, 30 (6):933-936.
- Gilfillan, I.M. and Jones, W.W. (1968).  
Effect of iron and manganese deficiency on the chlorophyll amino acid and organic status of leaves of Macadamia.  
Proc. Am. Soc. Hortic. Sci. 93, 210-214.
- Gifford, R.M. and Evans, L.T. (1981).  
Photosynthesis, carbon partitioning, and yield.  
Annu. Rev. Plant physiol., 32:485-509.
- Habeshaw, D. (1973).  
Translocation and the control of photosynthesis in sugar beet.  
Planta., 110:213-226.
- Hedden, P. and Graebe, J.E. (1985).  
Inhibition of gibberellin biosynthesis by paclobutrazol in cell-free homogenates of Cucurbita maxima and Malus pumila embryos.  
J. plant Growth Regul., 4:11-122.
- Hewitt, E.J. (1947).  
A technique for long scal pot sand culture.  
A.R. Long Ashton Agric. Post. Sta. 1946, P. 37.
- Hewitt, E.J. (1952).  
Sand and water culture methods used in the study of plant nutrition.  
Commonwealth Agric. Bureaxa, England.

- Higgins, T.J.V.; Jacobsen, J.V. and Zwar, J.A. (1982).  
Gibberellic acid and abscisic acid modulate protein synthesis and mRNA levels in barley aleurone layers. *Plant Molecular Biology*, 1:191-215.
- Hoagland, D.R. Arnon, D.I. (1950).  
The water-culture method of growing plants without soil. Univ. California, Berkely, Coll. Agric. Circ., 347.
- Horton, R.F. (1979).  
Hormonal regulation of stomatal function. *encyclopedia of plant physiology*, 11:513-555.
- Hradilik, J. (1973).  
The effect of Ethrel (2-chloroethylphosphonic acid) on the correlation between the cotyledon and cotylar in pea (*Pisum sativum* L.).  
In Czech. Rostl. Vyroba (Praha), 19:891-904.
- Hradilik, J. (1974).  
Reversal of auxin-induced inhibition by ethrel. *Biol. Plant.*, 16:255-261.
- Hussein, F.M.R. (1990).  
Effect of some growth regulators on morphological and histological characteristics of pea plant (*Pisum sativum* L.).  
M.Sc. Thesis, Dept. of Agric. Bot and Plant Path., Fac. of Agric. Cairo Univ.
- Ibrahim, A.A. (1987).  
Influence of GA<sub>3</sub> and CCC on growth and yield and accumulation of N, P, K, Na<sup>+</sup> cl. and total soluble carbohydrates in *Sorghum bicolor* grown under saline condition.  
*Annals of Agric. Sci., Moshtohor*, 25 (4):2013-2023.
- Ibrahim, A.A. and Khafaga, E.R. (1986).  
Effects of different levels of N, P, K, and growth regulators on the morphological characters and yield components of wheat. *J. Agric. Sci. Mansoura Univ.*, 11(3):1051-1060.
- Ibrahim, A.A. and Khafagy, M.A. (1990).  
Some growth substances effecting the growth, chemical composition and alkaloidal content of *Lupinus termis*, L. Egypt. *J. Appl. Sci.*, 5(7):367-381.
- Ilan, J. (1971).  
Evidence for hormonal regulation of the selectivity of ion uptake by plant cells.  
*Physiol. Plant*, 25:230-233.

- Ilan, I. and Reinhold, L. (1963).  
Analysis of the effects of indol-3-acetic acid on monovalent cations.  
Physiol. Plant, 16:596-603.
- Ilan, I.; Gilad, T. and Reinhold, L. (1971).  
Specific effects of kinetin on the uptake of monovalent cations by sunflower cotyledons.  
Physiol. Plant, 24:337-371.
- Ingram, T.J.; Reid, J.B.; Potts, W.C. and Murfet, I.C. (1983).  
Internode length in pisum. IV. The effect of the Le gene on gibberellin metabolism.  
Physiol. Plant, 59:607-616.
- Ingram, t.J.; Reid, J.B.; Murfet, I.C.; Caskin, C.L.; willis, C.L. and Mac Millan, J. (1984).  
Internode length in pisum. The Le gene controls the 3-hydroxylation of gibberellin A<sub>20</sub> to gibberellin A<sub>1</sub>.  
Planta., 160:455-463.
- Isermann, K. (1975).  
Mögliche ursachen der Mangan-Toleranz bestimmter Reis Sorten.  
Z. Pflanzeneranehr. Bodenkd., 138:235-247.
- Iwata, M.; Morita, I.; Honda, F. (1959).  
Effects of nitrogen supplied at various stages of growth and yield of onion in sand culture .  
J. Hort. Ass. Japan, 28: 96-108.
- Jacobsen, J.V. and Varner, J.E. (1967).  
Gibberellic acid-induced synthesis of protease by isolated aleurone layers of barley.  
Plant. Physiol., 42:1596.
- Jyung, W.H.; Ehmann, A.; Schlender, K.K. and Scala, J. (1975).  
Zinc nutrition and starch metabolism in Phaseolus vulgaris L.  
Plant physiol., 55:414-420.
- Kellerhals, M. (1986).  
Effect of plant growth regulators combinations on faba bean growth and yield structure.  
Distribution Abst. Inter., C. (European Abst.), 47 (3) :597-598.
- Kent-Jones, D.W. and Amos, A.J. (1957).  
"Modern" Cereal Chemistry.  
6th Ed. The Northern Publishing, Co. L. T. E.D.

- Khafaga, E.R.; Nagdy, G.A. and Abdel, M.S. (1986).*  
Effect of GA<sub>3</sub> on morphological and anatomical characteristics, yield and yield components of soybean (Glycine max (L) MERR.).  
*J. Agric. Sci. Mansoura, Univ., 11(2):533-546.*
- Khafagy, M.A.; Sakr, M.T. and Hamail, A.F. (1989).*  
Effect of ethrel and Mn under different levels of potassium on certain morphological as well as biochemical aspects and yield of potatoes.  
*J. Agric. Sci. Mansoura Univ., 14 (2):521-532.*
- Khalil, F.A.A. (1978).*  
Studies on pecan propagation.  
Ph. D., thesis, Fac. of Agric. Hort. Dep.  
Ain. Shams. Univ. Egypt .
- King, E.S. (1951).*  
Micro-analysis in medical biochemistry.  
2nd. Ed. Churchill, London.
- Koller, D. (1969).*  
The physiology of dormancy and survival of plants, in desert environments.  
In: Woolhouse HW (ed), Dormancy and survival. Symp. Soci. exp. Biol., 23:449-469.
- Koller, D. and Hadas, A., (1982).*  
Water relation in the germination of seeds. Encyclopedia of plant physiology New sev. 12B, Springer, Berlin, Heidelberg, New York, PP., 401-432.
- Kramer, D.; Römheld, V.; Landsberg, E. and Marschener, H. (1980).*  
Induction of transfer-cell formation by iron deficiency in the root epidermis of Helianthus annuus.  
*Planta., 147:335-339.*
- Lang, A. (1957).*  
The effect of gibberellin upon flower formation.  
*Proc. Nat. Acad. Sci., U.S. 43:709.*
- Lang, A. and Reinhard, E. (1961).*  
Gibberellins and flower formation.  
*Adv. Chem., 28:71.*
- Leopold, A.C. and Kriedemann, P.E. (1975).*  
Plant growth and development.  
2nd End. Mc Graw-Hille New York.
- Lerer, M. and Bar-Akiva, A. (1976).*  
Nitrogen constituents in manganese-deficient lemon leaves.  
*Physiol. Plant, 38, 13-18.*

- Lin, C.H. and Stocking, C.R. (1978).*  
Influence of leafage, light, dark and iron deficiency on polyribosome levels in maize leaves.  
*Plant cell physiol.* 19:461-470.
- Loberts, E.H. (1972).*  
Dormancy : a factor affecting seed survival in the soil.  
In Roberts, E.H. (ed) viability of seeds.  
Syracuse Univ. Press, Syracuse, 321-359.
- Lowry, O.H.; Rosebrough, N.J.; Farr, A.L. and Randall, R.J. (1951).*  
Protein measurement with Folin-Phenol reagent.  
*J. Biol. Chem.*, 193:265-275.
- Lyttleton, J.W. (1960).*  
Stabilization by manganese ions of ribosomes from embryonic plant tissue.  
*Nature (London)* 187, 1026-1027.
- Machold, O. (1972).*  
Lamellar protein grüner und chlorotischer Chloroplasten.  
*Biochem. Physiol. Pflanz.*, 163:30-41.
- Makarem, S.M.M. (1978).*  
Studies on germination of some fruit varieties with some nutrient elements and growth regulators.  
M.Sc., thesis, Fac. of Agric. Hort. Dep. Ain. Shams Univ., Egypt.
- Marschner, H. (1986).*  
Mineral nutrition of higher plant.  
Academic Press, Hacıoğlu Breace Jovanovich, Publisher.
- Mawardi, A. (1969).*  
The efficiency of macro- and micro-elements on onion production .  
Ph. D. Thesis, Fac., of Agric., Cairo Univ.
- Mayer, A.M. and Shain, Y. (1974).*  
Control of seed germination.  
*Annu. Rv. Plant physiol.*, 5:167-19.
- Michel, K.A.; Gilles, J.K.; Robers Hamilton, P.A. and Smith, F. (1956).*  
Colorimetric method for determination of sugars and related substances .  
*Anal Chem.*, 28, 3 .
- Millerd, A.; Thomson, J.A. and Schoreder, H.E. (1978).*  
Cotyledonary storage protein in *P. Sativum*. III.  
Pattern of accumulation during development.  
*Ibid.* 5:519-534.

- Mohsen, A.M.; El-Mosallamy, H.A.; El-Kholy, M.H. and Azab, S.A. (1987).  
Effect of nitrogen and GA<sub>3</sub> on leaf N,P&K content of valencia oranges.  
Zagzig J. Agric. Res., 14 (2):214-242.
- Moore, S.; Spachman, D.H. and Stein, W. (1958).  
Chromatography of amino acid on sulphonated polystyrene resins.  
Anal. Chem., 30:1185-1190.
- Morgan, P.W.; Joham, H.E. and Amin, J.U. (1966).  
Effect of manganese toxicity on indoleacetic on oxidase system of cotton.  
Plant physiol. 41, 718-724.
- Morgan, P.W.; Taylor, D.M. and Joham, H.E. (1976).  
Manipulation of IAA-Oxidase activity and auxine-deficiency symptoms in intact cotton plants with manganese nutrition.  
Plant physiol, 37:149-156.
- Mothes, K. and Engelbrecht, L. (1961).  
Kinetin-induced directed transport of substances in excised leaves in the dark.  
Phytochemistry, 1:58-62.
- Mousdale, D.M. (1983).  
Seasonal variation and metabolism of abscisic acid in shoot bark and lateral buds of apple (Malus domestica Borkh.).  
Biochem. Physiol. pflanz., 178:503-510.
- Mueller, W.C. and Beckman, C.H. (1978).  
Ultrastructural localization of polyphenoloxidase and peroxidase in roots and hypocotyls of cotton seedlings.  
Can. J. bot., 56:1579-1587.
- Mullins, M.G. (1970).  
Hormone-directed transport of assimilates in decapitated internodes of Phaseolus vulgaris L.  
Ann. Bot. (London), 34:897-909.
- Nagarajah, S. and Ulrich, A. (1966).  
Iron nutrition of the sugar beet plant in relation to growth, mineral balance and riboflavin formation.  
Soil Sci., 102:399-407.
- Nelson, J.M. and Sharples, G.C. (1980).  
Effect of growth regulators on germination of cucumber and other cucurbita seeds at sub-optimal temperatures.  
Hort. Sci., 15:253-254.

- Ness, P.J. and Woolhouse, H.W. (1980).  
RNA synthesis in Phaseolus chloroplasts.  
I. Ribonucleic acid synthesis and senescing leaves.  
J. exp., Bot., 31:223-233.
- Neumann, K.H. and Steward, F.C. (1968).  
Investigations on the growth and metabolism of cultured explants of Daucus carota I. Effects of iron, molybdenum and manganese on growth.  
Planta 81, 333-350.
- Neumann, D. and Janossy, A.G.S. (1977).  
Early responses to gibberellic acid in a dwarf maize mutant. (Zea mays L.).  
Planta, 137:25-28.
- Nikolaeva, M.C. and Yankelevich, B.B. (1977).  
The effect of phytohormones on embryo growth and peroxidase activity in apples.  
Byulleten Glavnogo Botanicheskogo Sada No. 103:83-86.  
Hort. Abs., 48:3170.
- Ohki, K.; Wilson, D.O. and Anderson, O.E. (1981).  
Manganese deficiency and toxicity sensitivities of soybean cultivar.  
Agro. J., 72:713-716.
- Okasha, K.A.; Zayed, E.A. and El-Zawily, A.I. (1985).  
Effect of gibberellic acid (GA<sub>3</sub>) and foliar nutrients on growth and yield of pajaro strawberry cultivar.  
J. Agric. Sci. Mansoura Univ., 10 (2):404-409.
- Olsen, R.A.; Bennett, J.H.; Blume, D. and Brown, J.C. (1981).  
Chemical aspects of the Fe stress response mechanism in tomatoes.  
J. Plant Nutr., 3:905-921.
- Omar, R.A.; Zayed, E.A.; Mashaal, S.F. and Hassan, M.M. (1985a).  
Application of some plant growth regulators for control of some squash diseases.  
J. Agric. Sci. Mansoura Univ., 10 (2):404-409.
- Omar, R.A.; Zayed, E.A.; Mashaal, S.F. and Hassan, M.M. (1985b).  
Application of some plant growth regulators for control of some squash diseases. II. Powdery mildew diseases.  
J. Agric. Sci. Mansoura Univ., 10 (2):410-417.
- Palevitch, P. and Thomas, T.H. (1976).  
Enhancement by low PH of gibberellic effects on dormant celery seeds and embryo less half seeds of barley.  
Physiol. Plant., 37:247-252.

- Patrick, J. and Wareing, P.F. (1982).  
Hormonal control of assimilate movement and distribution.  
In: Jeffcoat B (ed) Aspects and prospects of plant growth  
regulators. Monogr.6. Joint DPGRG BGRG Symp, 65-84.
- Paul, K.B.; Patel, C.S. and Biswas, P.K. (1973).  
Changes in endogenous growth regulators in loblolly pine  
seeds during the process of stratification and  
germination.  
Physiol. Plant., 28:530-534.
- Perur, N.G.; Smith, R.L. and Wiebe, H.H. (1961).  
Effect of iron chlorosis on protein fraction on corn leaf  
tissue.  
Plant. Physiol., 36:736-739.
- Pharis, R.p. and Reid, D.M. (1985).  
Hormonal Regulation of Development III.  
Springer-Verlag, Berlin Heidelberg New York Tokyo.
- Phillips, I.D.J. (1975).  
Apical dominance.  
Annu. Rev. Plant Physiol., 26:341-367.
- Phinney, B.O. and West, C.A. (1961).  
Gibberellins and plant growth  
In W. Ruhland, ed., Encyclopedia of Plant Physiology  
:Berlin Springer, 14:1185.
- Pinfield, N.J. and Davies, H.V. (1978).  
Hormonal changes during after-ripening of Acer platanoids  
L. seeds.  
Z Pflanzenphysiol., 90:171-181.
- Pinfield, N.J. and Sanchez-Torres, O. (1984).  
The involvement of endogenous cytokinin-like and  
gibberellin-like substances in germination and early  
seedling growth of  
Cucurbita pepo L. .  
J. Plant Physiol., 116:293-300.
- Piper, C.S. (1947).  
Soil and Plant Analysis.  
Inter. Sci. Publishers, Inc. Now York, PP. 258-275.
- Potts, W.C. and Reid, J.B. (1983).  
Internode length in pisum. III. The effects and  
interaction of Na/na and Le/le gene differences  
endogenous gibberellin-like substances.  
Physiol. Plant., 57:448-454.

- Potts, W.C.; Reid, J.B. and Murfet, I.C. (1982).  
Internode length in *Pisum*. I. The effect of the Le/le gene difference on endogenous gibberellin-like substances.  
*Physiol. Planta.*, 55:323-328.
- Potts, W.C. Reid, J.B. and Murfet, I.C. (1985).  
Internode length in *Pisum*. Gibberellins and the slender phenotype.  
*Physiol. Planta.*, 63:357-364.
- Prask, J.A. and Plocke, D.J. (1971).  
A role of zinc in the structural integrity of the cytoplasmic ribosomes of *Euglena gracilis*.  
*Plant Physiol.* 48:155.
- Pregl, F. (1945).  
Quantitative organic micro-analysis.  
4 th Ed. Churchill, London.
- Price, C.A. and Carell, E.F. (1964).  
Control by iron of chlorophyll formation and growth in *Euglena graciles*.  
*Plant Physiol.*, 39:862.
- Rademacher, W.; Jung, J.; Graeb, J.E. and Schwenen, L. (1984).  
On the mode of action of tetracyclosis and triazol growth retardants.  
British Plant growth regulator. Group, Monograph 11, Wantage, England, 1-11.
- Rahimi, A., and Bussler, w. (1978).  
Makro-und Mikrosymptome des Zinkmangels bei höheren Pflanzen.  
*Z. Pflanzenernaehr. Bodenkd.*, 141:567-581.
- Rahimi, A. and Bussler, W. (1979).  
Die Entwicklung und der Zn<sup>2+</sup>, Fe-, und P- Gehalt höherer Pflanzen in Abhängigkeit vom Zinkangebot.  
*Z. Pflanzenernaehr. Bodenkd.*, 142:15-27.
- Randall, P.J. and Bouma, D. (1973).  
Zinc deficiency, Carbonic anhydrase, and photosynthesis in leaves of spinach.  
*Plant physiol.*, 52: 229-232.
- Randall, P.J.; Thomson, J.A. and Schroeder, H.E. (1979).  
Cotyledonary storage protein in *Pisum sativum* IV. effects of sulphur, Phosphorus, Potassium and magnesium deficiencies.  
*Australian J. of Plant physiol.*, 6:11-24.

- Reid, D.M. and Crozier, A. (1970).  
CCC induced increase of gibberellin levels in pea seedlings.  
*Planta.*, 94:95-106.
- Reid, D.M. and Wample, R.L. (1985).  
Water relations and plant hormones.  
*Encyclopedia of Plant Physiol.*, 11:513-555.
- Reid, J.B.; Murfet, I.C. and Potts, W.C. (1983).  
Internode length in *pisum*. II. Additional information on the relationships and action of loci *Le*, *La*, *Cry*, *Na* and *Lm*.  
*J. exp. Bot.*, 34:349-364.
- Rikin, A.; Richmond, A.E.; Waldman, M. and Dovrate, A. (1978).  
The role of abscisic acid and gibberellic acid in regulation of morphogenesis and cold resistance of alfalfa seedlings (*Medicago sativa* L.).  
*Isr. J. Bot.*, 24-49.
- Robinson, M. (1983).  
Influence of abscisic acid and ethylene on assimilate distribution in *Gladiolus grandiflorus*.  
*Ann. Bot. (London)*, 15:779-785.
- Römheld, V. and Marschner, H. (1981 a).  
Rhythmic iron stress reactions in sunflower at suboptimal iron supply.  
*Physiol. Plant.*, 53:347-353.
- Römheld, V. and Marschner, H. (1981 b).  
Iron deficiency stress induced morphological and physiological changes in root tips of sunflower.  
*Physiol. Plant.*, 53:354-360.
- Said, Akila and Nageib, M.T. (1964).  
Sucrose determination as means of examination of draw back of the exported Halawa Tehinia.  
*Res. Bull. No. 39, Fac. of Agric. Cairo Univ.* .
- Sakr, M.T.; Abou-Dahab, A.M.; Badawy, E.M. and Sakr, S.S. (1986).  
Effect of some plant growth regulators on some vegetative and anatomical varieties of senna (*Cassia acutifolia*, Del.) plants.  
*J. Agric. Sci., Mansoura Univ.*, 11(3):1037-1050.
- Sakr, M.T.; Khafagy, M.A. and Helaly M.N. (1989).  
Effect of some growth substances under different nitrogen levels on growth, yield and some biochemical contents of potato plants.  
*J. Agric. Sci. Mansoura Univ.*, 14 (2):533-543.

- Sakr, R.A. (1977).*  
Effect of some growth substances on growth and structure of mon- and di-cotyledonous plants.  
Ph. D. Thesis, Fac. Agric., Cairo Univ., 212 PP.
- Sakr, R.A. and El-Kady, M.A. (1981).*  
Effect of cycocel and gibberellin on faba bean (Vicia faba L.) plants. I-Vegetative and anatomical traits.  
Res. Bull., Fac. Agric., Zagazig Univ. No. 427. 18 PP.
- Sakr, R.A. and Harb, R.K. (1989).*  
The counteractive effect between gibberellin and alar of faba bean and wheat plants.  
Egypt. J. Appli. Sci., 4 (1):417-433.
- Saks, Y. and Ilan, I. (1984).*  
Hormone mediated regulative action of the sunflower shoot apex on growth and cation level in the cotyledons.  
Plant Physiol., 74:408-412.
- Salami, A.U. and Kenefick, D.G. (1970).*  
Stimulation of growth in zinc-deficient corn seedlings by the addition of tryptophan.  
Crop Sci. 10:291-294.
- Sandmann, G. and Böger, P. (1983).*  
The Enzymatological function of heavy metals and their role in electron transfer processes of plants.  
In " Encyclopedia of Plant Physiology, New Series " ( A. Läuchli and R.L. Bielecki, eds.), Vol. 15A, PP. 563-596.  
Springer-Verlage, Berlin and New York.
- Sansavini, S.; Cristoferi, G. and Montalti, P. (1988).*  
Effects of Paclobutrazol on growth, fruiting, carbohydrate metabolism in pear trees.  
Hortic. Sci., 2 (2):52-57.
- Schlee, D.; Reinbooth, D. and Fritsche, W. (1968).*  
Der Einfluss von Eisen auf den Purinstoffwechsel und die Riboflavinbindung von Candida guilliermondii (Cost.).  
Lang et G. Allg Mikrobiol., 8:127-138.
- Schmidt, H.E.; Wrazidlo, W.; Bergmann, W. and Schmelzer, K. (1972).*  
Nachweis von Zinkmangel als Ursache der Kräuselkrankheit des Hopfens.  
Biol. Zentrable., 91:729-742.
- Schroeder, H.E. (1982).*  
Quantitative studies on the cotyledonary proteins in the genus Pisum.  
J. Sci. of Food and Agric., 33:191-198.

S  
*Schroeder, H.E. (1984).*

Effects of applied growth regulators on pod growth and seed protein composition in Pisum sativum L. .  
J. of Experimental Bot., 53, (155):813-821.

*Schwabe, W.W. (1976).*

Applied aspects of juvenility and some theoretical considerations.  
Acta. Hortic., 56:45-56.

*Seeley, S.D. and Powell, Jr.L.D. (1981).*

Seasonal changes of free and hydrolizable abscisic acid in vegetative apple buds.  
J. Am. Soc. Hortic. Sci., 106:405-409.

*Seth, A.K. and Wareing, P.F. (1967).*

Hormone-directed transport of metabolites and its possible role in plant senescence.  
J. Exp. Bot., 18:65-77.

*Sharma, C.P.; Sharma, P.N.; Bisht, S.S. and Nautiyal, B.D. (1982).*

Zinc deficiency induced changes in cabbage.  
In "Proceedings of the Ninth Plant Nutrition Colloquium, Warwick, England " (A. Scaife, ed. ), PP. 601-606  
Commonw. Agric. Bur. Farnham Royal, Bucks.

*Sharma, Y.P.; Vatsa, V.K. and Agarwal, K. (1980).*

Influence of some growth regulators on the growth and yield of Vicia faba.  
Indian J. Bot., 3 (1):76-78.

*Shawky, I.; El-Tomi, A.L.; Abou-Rawash, M. and Makarem, M. (1978).*

Priliminary studies on the germination of Pyrus communis seeds.  
Research Bulletin, Ain Shams Univ. Fac. of Agric. No. 826.12 PP.

*Shindy, W.W. and Weaver, R.J. (1970).*

Export of photosynthate affected when leaves are pretreated with growth substances.  
Nature (London), 227:301-302.

*Singh, T.N.; Aspinall, D. and Paleg, L.G. (1973 ).*

Stress metabolism IV. The influence of (2 chloethyl) trimethylammonium chloride and gibberellic acid on the growth and proline accumulation of wheat plants during water stress.  
Aust. J. Biol. Sci., 26:77-86.

- Skoog, F. (1940).*  
relationship between zinc and auxin in the growth of higher plants.  
*Am. J. Bot.*, 27:939-950.
- Snedecor, G.W. and Cochran, (1982).*  
Statistical Methods.  
The Iowa State Univ. Press, 7 th Edi., 2 nd. Printing,  
507 pp.
- Spiker, S.; Mashkas, A. and Yunis, M. (1976).*  
The effect of single and repeated gibberellic acid treatment on internode number and length in dwarf peas.  
*Physiol. Planta.*, USA, 36 (1):1-3.
- Sponsel, V.M. (1982).*  
Effects of applied gibberellins and naphthyl-acetic acid on pod development in fruits of Pisum sativum L. cv. progress No.9.  
*J. of Plant Growth Regulation*, 1:147-152.
- Stuart, N.W. and Cathey, H.M. (1961).*  
Applied aspects of the gibberellins.  
*Ann. Rev. Plant Physiol.*, 12:369.
- Takagi, S. (1976).*  
Naturally occurring iron-chelating compounds in oat- and rice-root washings. I. Activity measurements and preliminary characterization.  
*Soil Sci. Plant Nutr.*, 22:423-433.
- Tartoura, K.A.A.H. (1984).*  
Study of some factors affecting dormancy in Egyptian apricot seeds.  
M. Sc. Thesis. Al-Azhar Univ. .
- Taylor, C.M. and Railton, I.D. (1977).*  
The influence of wilting and abscisic acid application on gibberellin inter-conversion in etiolated seedlings of dwarf Pisum sativum var. Meteor.  
*Plant Sci, Lett.*, 9:317-322.
- Taylor, J.S. and Wareing, P.F. (1979).*  
The effect of light on the endogenous levels of cytokinins and gibberellins in seeds of sitka spruce (Picea sitchensis Carrier  
*Plant Cell Environ.*, 2:173-179.
- Taylorson, R.R. and Hendricks, S.B. (1977).*  
Dormancy in seeds.  
*Ann. Rev. Plant Physiol.*, 28:331-354.

- Terry, N. (1980).  
Limiting factors in photosynthesis I. Use of iron stress to control photochemical capacity in vivo .  
Plant Physiol., 65:114-120 .
- Thomas, W. and R.A., Dutcher (1924).  
The colorimetric determination of carbohydrate methods.  
J. Amer. Chem. Soc., 46:1662-1669.
- Thomson, J.A., Schroeder, H.E. and Randal, P.J. (1979).  
Heterogeneity of sulphur content in the storage proteins of pea cotyledons.  
Plant., 146:463-466.
- Trivedi, S.; Sankhla, D.; Sankhla, N.; Upadhyaya, A.; Weber, D. J. and Smith, B.N. (1988).  
Effect of paclobutrazol and salt on growth and lipid constituents of moth bean seedlings .  
Proc. Plant Growth Regul. Soc., America, 39-46.
- Varner, J.E.; Ram Chandra, G. and Chrispeels, M.J. (1965).  
Gibberellic acid-Controlled synthesis of  $\alpha$  amylase in barley endosperm.  
J. Cell Comp. Physiol., 66 (Suppl. 1):55.
- Ven Kat-Raju, K.; Marschner, H. and Römheld, V. (1972).  
Effect of iron nutritional status on ion uptake, substrate PH and production and release of organic acids and riboflavine by sunflower plants.  
Z. Pflanzenernaehr. Bodenkd. 132, 177-190.
- Von Schirach-Szmigiel, L. (1979).  
Alterations in endogenous levels of gibberellin-like substances during germination of Phaseolus vulgaris seeds.  
Physiol. Plant., 46:54-57.
- Walser, R.H.; Walker, D.R. and Seeley, S.D. (1981).  
Effect of temperature, fall defoliation, and gibberellic acid on the rest period of peach leaf buds.  
J. Am. Soc. Hortic., Sci., 106:91-94.
- Wanas, A. L. I.A., (1992).  
Botanical studies on some members of fabaceae family.  
M.Sc thesis, Dep. of Agric. Bot, Fac. of Agric, Moshtohor, Zagazig, Univ. Benha branch.
- Wareing, P.F. and Saunders, P.F. (1971).  
Hormones and dormancy.  
Annu. Rev. Plant Physiol., 22:261-288.

- Weaver, R.J. and Mc Cune, S.B. (1959).  
Response of certain varieties of Vitis unifera to gibberellin.  
Hilgardia, 28:297-350.
- Weaver, R.J. and Johnson, J.O. (1985).  
Relation of hormones to nutrient mobilization and the internal environment of the Plant: The supply of mineral nutrients and photosynthate.  
Encyclopedia of Plant Physiology, Vol. 11:3-36.
- Weaver, R.J., Shindy, W. and Kliwer, W.M. (1969).  
Growth regulator induced movement of photosynthetic products into fruits of Black Corinth grapes.  
Plant Physiol., 44:183-188.
- Webber, J.E.; Laver, M.L.; Zaerr, J.B. and Lavender, D.P. (1979).  
Seasonal variation of abscisic acid in the dormant shoots of Douglas-fir.  
Can. J. Bot., 57:534-538.
- Wettstein, D. (1957).  
Chlorophyll, Letal und der Sumickroskopische Formmech Sell-der-Plastiden.  
Exptl. Ceel Res., 12:427.
- Zagorski, S. and Lewak, S. (1984).  
Are effects of gibberellic and abscisic acids on lettuce seed germination Ph-dependent.  
Acta. Physiologia Plantarum, 6 (1):27-32.
- Zayed, E.A.; El-Zawily A.I. and Ibrahim, S.A. (1984).  
Effect of some growth regulators on potato plants grown in summer and nili plantings.  
Minufya, J. Agric. Res., 9: 1-16.
- Zayed, E.A.; El-Zawily, A.I.; Nofal, E.S. and Hassan, M.M. (1985a).  
Studies on growth, productivity and some physiological aspects of hot pepper (Capsicum annum L. var. Red Cherry). I-Effect of morphaction, gibberellic acid and their combination.  
J. Agric. Sci. Mansoura Univ., 10 (1):183-190.
- Zayed, E.A.; Ibrahim, S.A. and El-Zawily, A.T. (1985 b).  
Response of watermelon to benzyladenine and gibberellic acid applied at different growth stages.  
J. Agric. Mansoura Univ., 10 (2):530-536.