

# List of publications Ian M. Møller

## Publications categorised

Primary publications	1,2,5,7-9,11-17,20,23-28,36-42,45-49,51,52,56,65,69,71-73,75-81,83-86,88,89,91,94,95,97-99,103-105,108-111,118-121,123,124,126,129,132-134,136-137,140,142-146,153,160,164,167-169,171-174,176-177,179-180,188,191-193,197,201-203,206-213,215-218	120
Reviews	18,21,43,44,50,57,58,61,64,67,68,74,87,93,101,106,107,122,125,139,141,148-150,154,158,161,165,166,170,175,178,181,185-187,194,196,198,200,205	41
Methods	53,92,182	3
Editorial material	162, 189	2
Theses	4,10	2
Editor of books or special journal issues	59,66,100,112,151,156,199	7
Proceedings	3,6,19,22,29-35,54,55,63,70,82,96,102,113-117,138	24
Textbooks and textbook chapters	90,131,147,163,183,184, 214	7
Popular science	60,128,135,155,159,195,204	6
Others	62,127,130,152,157,190	6
Total		218

### Citations:

ISI Web of Knowledge – more than 7500 times with an H-index of 44

Google Scholar – more than 10800 times with an H-index of 52

## Publications – Chronological list

- 1) Kähr, M. & **Møller, I.M.** 1976. Temperature response and effect of  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  on ATPases from roots of oats and wheat as influenced by growth temperature and nutritional status. *Physiol. Plant.* 38:153-158.
- 2) **Møller, I.M.** 1978. Balance between cyanide-sensitive and -insensitive respiration in wheat root mitochondria as influenced by salt concentration in the plant growth medium. *Physiol. Plant.* 42:157-162.
- 3) **Møller, I.M.** 1978. KCN-Resistant respiration in wheat root mitochondria. In *Plant Mitochondria* (G. Ducet and C. Lance, eds), pp. 293-298. Elsevier/North-Holland Biomedical Press.
- 4) **Møller, I.M.** 1978. Cyanide-insensitive respiration in wheat root mitochondria. *Cand. scient. thesis, Univ. of Copenhagen*, 136 p. *Diss. Abst. Int. C* 39(4):723.
- 5) Johnston, S.P., **Møller, I.M.** & Palmer, J.M. 1979. The stimulation of exogenous NADH oxidation in Jerusalem artichoke mitochondria by screening of charges on the membranes. *FEBS Lett.* 108:28-32.
- 6) **Møller, I.M.**, Johnston, S.P. & Palmer, J.M. 1980. The effect of cations on exogenous NADH oxidation General charge screening and a specific requirement for  $\text{Ca}^{2+}$ - In First European Bioenergetics Conference. Pàtron Editore, Bologna.
- 7) **Møller, I.M.**, Chow, W.-S., Palmer, J.M. & Barber, J. 1981. 9-Aminoacridine as a fluorescent probe of the electrical diffuse layer associated with the membranes of plant mitochondria. *Biochem. J.* 193:37-46.
- 8) **Møller, I.M.**, Johnston, S.P. & Palmer, J.M. 1981. A specific role for  $\text{Ca}^{2+}$  in the oxidation of exogenous NADH by Jerusalem-artichoke (*Helianthus tuberosus*) mitochondria. *Biochem. J.* 194:487-495.
- 9) **Møller, I.M.** & Palmer, J.M. 1981. Charge screening by cations affects the conformation of the mitochondrial inner membrane. A study of exogenous NAD(P)H oxidation in plant mitochondria. *Biochem. J.* 195:583-588.
- 10) **Møller, I.M.** 1981. The effect of cations on the oxidation of NAD(P)H by plant mitochondria. *Ph.D. thesis, Univ. of London*. 170 p.
- 11) **Møller, I.M.**, Bergman, A., Gardeström, P., Ericson, I. & Palmer, J.M. 1981. Characterization and purification of inside-out submitochondrial particles obtained from plant mitochondria. *FEBS Lett.* 126:13-17.
- 12) Schwitzguébel, J.-P., **Møller, I.M.** & Palmer, J.M. 1981. Changes in density of mitochondria and glyoxysomes from *Neurospora crassa*: a reevaluation utilizing silica sol gradient centrifugation. *J. Gen. Microbiol.* 126:289-295.

- 13) Schwitzguébel, J.-P., **Møller, I.M.** & Palmer, J.M. 1981. The oxidation of tricarboxylate anions by mitochondria isolated from *Neurospora crassa*. J. Gen. Microbiol. 126:297-303.
- 14) **Møller, I.M.** & Palmer, J.M. 1981. Properties of the oxidation of exogenous NADH and NADPH by plant mitochondria. Evidence against a phosphatase or a nicotinamide nucleotide transhydrogenase being responsible for NADPH oxidation. Biochim. Biophys. Acta 638:225-233.
- 15) **Møller, I.M.** & Palmer, J.M. 1981. The inhibition of exogenous NAD(P)H oxidation in plant mitochondria by chelators and mersalyl as a function of pH. Physiol. Plant. 53:413-420.
- 16) **Møller, I.M.** & Palmer, J.M. 1982. Direct evidence for the presence of a rotenone-resistant NADH dehydrogenase on the inner surface of the inner membrane of plant mitochondria. Physiol. Plant. 54:267-274.
- 17) **Møller, I.M.**, Schwitzguébel, J.-P. & Palmer, J.M. 1982. Binding and screening by cations and the effect on exogenous NAD(P)H oxidation in *Neurospora crassa* mitochondria. Eur. J. Biochem. 123:81-88.
- 18) Palmer, J.M. & **Møller, I.M.** 1982. Regulation of NAD(P)H dehydrogenases in plant mitochondria. Trends Biochem. Sci. 7:258-261.
- 19) **Møller, I.M.**, Schwitzguébel, J.-P. & Palmer, J.M. 1982. Cations and NAD(P)H oxidation by *Neurospora crassa* mitochondria. In Second European Bioenergetics Conference, L.B.T.H. C.N.R.S. éditeur, Villeurbanne. pp. 345-346.
- 20) Palmer, J.M., Schwitzguébel, J.-P. & **Møller, I.M.** 1982. Regulation of malate oxidation in plant mitochondria. Response to rotenone and exogenous NAD<sup>+</sup>. Biochem. J. 208:703-711.
- 21) **Møller, I.M.** & Palmer, J.M. 1984. Regulation of the tricarboxylic acid cycle and organic acid metabolism. In The Physiology and Biochemistry of Plant Respiration. (J.M. Palmer, ed.), pp. 105-122. Cambridge University Press, Cambridge.
- 22) **Møller, I.M.** 1983. A novel method for assessing energization of plant mitochondria. Biochem. Soc. Trans. 11:755-756.
- 23) **Møller, I.M.** 1983. Monitoring of membrane-bound divalent cations in plant mitochondria using chlorotetracycline fluorescence. Physiol. Plant. 59:567-572.
- 24) **Møller, I.M.**, Palmer, J.M. & Johnston, S.P. 1983. Inhibition of exogenous NADH oxidation in plant mitochondria by chlorotetracycline in the presence of calcium ions. Biochim. Biophys. Acta 725:289-297.
- 25) **Møller, I.M.**, Lundborg, T. & Bérczi, A. 1984. The negative surface charge

- density of plasmalemma vesicles from wheat and oat roots. FEBS Lett. 167:181-185.
- 26) Bérczi, A., **Møller, I.M.**, Oláh, Z., Lundborg, T. & Erdei, L. 1984. A model for the ion content of plants as dependent upon surface potentials and surface charge densities of plant membranes. *Physiol. Plant.* 61:529-534.
  - 27) Bérczi, A., **Møller, I.M.**, Lundborg, T. & Kylin, A. 1984. The surface charge density of wheat root membranes. *Physiol. Plant.* 61:535-540.
  - 28) Hsiao, K.-C. & **Møller, I.M.** 1984. The subcellular distribution of carotenoids in light-grown *Verticillium agaricinum*. *Physiol. Plant.* 62:167-174.
  - 29) Hsiao, K.-C. & **Møller, I.M.** 1984. Subcellular distribution of carotenoids in *Verticillium agaricinum*. In Proceedings of 4th Congress of FESPP, Strasbourg, France. pp. 386-387.
  - 30) **Møller, I.M.** & Bérczi, A. 1984. Effect of ions on the activity of membrane-bound enzymes. In Proceedings of 4th Congress of FESPP, Strasbourg, France. pp. 456-457.
  - 31) Bérczi, A., **Møller, I.M.**, Lundborg, T. & Kylin, A. 1984. The surface charge density of wheat root membranes. In Proceedings of 4th Congress of FESPP, Strasbourg, France. pp. 472-473.
  - 32) Körner, L., **Møller, I.M.**, Kjellbom, P. & Larsson, C. 1984. Surface properties of plasmalemma vesicles from barley roots and shoots. In Proceedings of 4th Congress of FESPP, Strasbourg, France. pp. 514-515.
  - 33) Lundborg, T., Widell, S., Bérczi, A., Kjellbom, P., Larsson, C. & **Møller, I.M.** 1984. Sidedness and surface charge density of plasmalemma vesicles. In Proceedings of 4th Congress of FESPP, Strasbourg, France. pp. 523-524.
  - 34) **Møller, I.M.** & Lundborg, T. 1984. A fluorescent compound in oat root plasmalemma. In Proceedings of 4th Congress of FESPP, Strasbourg, France. pp. 537-538.
  - 35) **Møller, I.M.** & Palmer, J.M. 1984. Determination of membrane-bound divalent cations. In Proceedings of 4th Congress of FESPP, Strasbourg, France. pp. 539-540.
  - 36) **Møller, I.M.**, Kay, C.J. & Palmer, J.M. 1984. Electrostatic screening stimulates rate-limiting steps in mitochondrial electron transport. *Biochem. J.* 223:761-767.
  - 37) **Møller, I.M.** & Lundborg, T. 1985. Electrostatic surface properties of plasmalemma vesicles from oat and wheat roots. Ion binding and screening investigated by 9-aminoacridine fluorescence. *Planta* 164:354-361.
  - 38) **Møller, I.M.** & Lundborg, T. 1985. A fluorescent compound in oat root

- plasma membrane. *Physiol. Plant.* 64:461-467.
- 39) Körner, L.E., Kjellbom, P., Larsson, C. & **Møller, I.M.** 1985. Surface properties of right side-out plasma membrane vesicles isolated from barley roots and leaves. *Plant Physiol.* 79:72-79.
  - 40) Edman, K., Ericson, I. & **Møller, I.M.** 1985. The regulation of exogenous NAD(P)H oxidation in spinach leaf mitochondria by pH and cations.- *Biochem. J.* 232:471-477.
  - 41) Kay, C.J., Ericson, I., Gardeström, P., Palmer, J.M. & **Møller, I.M.** 1985. Generation and purification of submitochondrial particles of different polarities from plant mitochondria. *FEBS Lett.* 193:169-174.
  - 42) **Møller, I.M.** & Bérczi, A. 1985. Oxygen consumption by purified plasmalemma vesicles from wheat roots. Stimulation by NADH and salicylhydroxamic acid (SHAM).- *FEBS Lett.* 193:180-184.
  - 43) **Møller, I.M.** & Lin, W. 1986. Membrane-bound NAD(P)H dehydrogenases in higher plant cells. *Annu. Rev. Plant Physiol.* 37:309-334.
  - 44) **Møller, I.M.** 1986. NADH dehydrogenases in plant mitochondria. *Physiol. Plant.* 67:517-520.
  - 45) **Møller, I.M.**, Kay, C.J. & Palmer, J.M. 1986. Chlortetracycline and the transmembrane potential of the inner membrane of plant mitochondria. *Biochem. J.* 237:765-771.
  - 46) Bérczi, A. & **Møller, I.M.** 1986. Comparison of the properties of plasmalemma vesicles purified from wheat roots by phase partitioning and by discontinuous sucrose gradient centrifugation. *Physiol. Plant.* 68:59-66.
  - 47) **Møller, I.M.** & Bérczi, A. 1986. Salicylhydroxamic acid-stimulated NADH oxidation by purified plasmalemma vesicles from wheat roots. *Physiol. Plant.* 68:67-74.
  - 48) Körner, L.E., **Møller, I.M.** & Jensén, P. 1986. Free space uptake and influx of Ni<sup>2+</sup> in excised barley roots. *Physiol. Plant.* 68:583-588.
  - 49) Bérczi, A. & **Møller, I.M.** 1987. Mg<sup>2+</sup>-ATPase activity in wheat root plasmalemma vesicles: Time-dependence and effect of sucrose and detergents. *Physiol. Plant.* 70:583-589.
  - 50) Jensén, P., Erdei, L. & **Møller, I.M.** 1987. K<sup>+</sup> uptake by plant roots. Experimental approach and uptake models. *Physiol. Plant.* 70:743-748.
  - 51) Askerlund, P., Larsson, C., Widell, S. & **Møller, I.M.** 1987. NAD(P)H oxidase and peroxidase activities in purified plasma membranes from cauliflower inflorescence. *Physiol. Plant.* 71:9-19.

- 52) Körner, L.E., **Møller, I.M.** & Jensen, P. 1987. Effects of  $\text{Ca}^{2+}$  and other divalent cations on uptake of  $\text{Ni}^{2+}$  by excised barley roots. *Physiol. Plant.* 71: 49-54.
- 53) **Møller, I.M.**, Lidén, A.C., Ericson, I. & Gardeström, P. 1987. Isolation of submitochondrial particles with different polarities. *Methods Enzymol.* 148:442-453.
- 54) **Møller, I.M.** & Lidén, A. 1987. Purification of Jerusalem artichoke mitochondria on a continuous Percoll gradient. In *Plant Mitochondria: Structural, Functional and Physiological Aspects* (A.L. Moore and R.B. Beechey, eds), pp. 131-134. Plenum Press, New York. ISBN 0-306-42572-6.
- 55) Lidén, A.C., Sommarin, M. & **Møller, I.M.** 1987. Lateral heterogeneity in the inner mitochondrial membrane. In *Plant Mitochondria: Structural, Functional and Physiological Aspects* (A.L. Moore and R.B. Beechey, eds), pp. 139-142. Plenum Press, New York. ISBN 0-306-42572-6.
- 56) Lidén, A.C. & **Møller, I.M.** 1988. Purification, characterization and storage of mitochondria from Jerusalem artichoke tubers. *Physiol. Plant.* 72:265-270.
- 57) **Møller, I.M.**, Bérczi, A., van der Plas, L.H.W. & Lambers, H. 1988. Measurement of the activity and capacity of the alternative pathway in intact plant tissues: Identification of problems and possible solutions. *Physiol. Plant.* 72:642-649.
- 58) **Møller, I.M.** 1988. The organization of biological membranes. *Physiol. Plant.* 73:153-157.
- 59) **Møller, I.M.** & Crane, F.L. (eds) 1988. Plasmalemma Redox Functions in Plants. *Physiol. Plant.* 73:161-200.
- 60) Larsson, C., Åkerlund, H.-E. & **Møller, I.M.** 1988. Växter självförsörjande organismer med komplicerat arvs massa. In "Ny Biologi vid Gammalt Universitet" Molekylärbiologisk Forskning vid Matematisk-naturvetenskaplig fakultet i Lund. Årsskrift utgiven av Lunds Universitets Naturvetarförening (M. von Schantz, ed.), pp. 28-33.
- 61) **Møller, I.M.**, Askerlund, P., Larsson, C., Bérczi, A. & Widell, S. 1988. Redox components in the plant plasma membrane. In *Plasma Membrane Oxidoreductases in Control of Animal and Plant Growth* (F.L. Crane, D.J. Morré and H. Löw, eds), pp. 57-69. Plenum Press, New York.
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- 63) Bérczi, A., Larsson, C., Widell, S. & **Møller, I.M.** 1989. Separation of wheat root microsomal membranes by countercurrent distribution. An evaluation

of plasma membrane markers. In Structural and Functional Aspects of Transport in Roots (B.C. Loughman, O. Gasparikova and J. Kolek, eds), pp. 69-72. Kluwer Academic Publishers, Dordrecht. ISBN 0-7923-0060-2.

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- 65) Bérczi, A., Larsson, C., Widell, S. & **Møller, I.M.** 1989. On the presence of inside-out plasma membrane vesicles and vanadate-inhibited K<sup>+</sup>,Mg<sup>2+</sup>-ATPase in microsomal fractions from wheat and maize roots *Physiol. Plant.* 77:12-19.
- 66) Larsson, C. & **Møller, I.M.** (eds) 1990. *The Plant Plasma Membrane Structure, Function and Molecular Biology*, Springer-Verlag, Heidelberg, 440 pages.
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- 68) **Møller, I.M.** & Crane, F.L. 1990. Redox systems of the plasma membrane. Chapter 5, pp. 93-126 in ref. 66.
- 69) Rasmusson, A., **Møller, I.M.** & Palmer, J.M. 1990. Component of the alternative oxidase localized to the matrix surface of the inner membrane of *Arum* mitochondria. *FEBS Lett.* 259: 311-314.
- 70) Dahlin, C., **Møller, I.M.**, Ryberg, H. & Sandelius, A.S. 1990. Surface charge densities, lipid compositions and fluidities of thylakoid membranes showing different degrees of stacking. In *Current Research in Photosynthesis* (M. Baltscheffsky, ed.), Vol. II, pp. 813-816. Kluwer Academic Publishers, Dordrecht
- 71) Sommarin, M., Petit, P.X. & **Møller, I.M.** 1990. Endogenous protein phosphorylation in purified plant mitochondria. *Biochim. Biophys. Acta* 1052:195-203.
- 72) Rasmusson, A.G. & **Møller, I.M.** 1990. NADP-Utilizing enzymes in the matrix of plant mitochondria. *Plant Physiol.* 94:1012-1018.
- 73) Petit, P.X., Sommarin, M., Pical, C. & **Møller, I.M.** 1990. Modulation of endogenous protein phosphorylation in plant mitochondria by respiratory substrates. *Physiol. Plant.* 80:493-499.
- 74) **Møller, I.M.**, Askerlund, P. & Widell, S. 1991. Electron transport constituents of plant plasma membranes. In *Oxidoreduction of the Plasma Membrane: Relation to growth and transport*, Vol. 2, *Plants* (F.L. Crane, D.J. Morré and H. Löw, eds), CRC Press, Boca Raton, FL., pp. 35-59.

- 75) Halldén, C., Karlsson, G., Lind, C., **Møller, I.M.** & Heneen, W.K. 1991. Microsporogenesis and tapetal development in fertile and cytoplasmic male sterile sugar beet (*Beta vulgaris* L.). *Sexual Plant Reproduction* 4: 215-225.
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- 80) Rasmusson, A.G. & **Møller, I.M.** 1991a. NAD(P)H dehydrogenases on the inner surface of the inner mitochondrial membrane studied using inside-out submitochondrial particles. *Physiol. Plant.* 83:357-365.
- 81) Rasmusson, A.G. & **Møller, I.M.** 1991b. Effect of calcium ions and inhibitors on internal NAD(P)H dehydrogenases in plant mitochondria. *Eur. J. Biochem.* 202: 617-623.
- 82) Pical, C., Rémy, R., Sommarin, M., **Møller, I.M.** & Petit, P.X. 1992. Polypeptide composition and protein phosphorylation in plant mitochondria studied by two-dimensional polyacrylamide gel electrophoresis. In *Molecular, Biochemical and Physiological Aspects of Plant Respiration* (H. Lambers and L.H.W. van der Plas, eds.), pp. 393-398. SPB Academic Publishers bv, The Hague. ISBN 90-5103-079-7.
- 83) Halldén, C., Lind, C. & **Møller, I.M.** 1992. Variations in mitochondrial translation products in fertile and cytoplasmic male sterile *Beta* beets. *Theor. Appl. Genetics* 85: 139-145.
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- 85) Struglics, A., Fredlund, K.M., Rasmusson, A.G. & **Møller, I.M.** 1993. The presence of a short redox chain in the membrane of potato tuber peroxisomes and the association of malate dehydrogenase with the membrane. *Physiol. Plant.* 88: 19-28.
- 86) Bérczi, A. & **Møller, I.M.** 1993. Surface charge density estimation by 9-



aminoacridine fluorescence titrations: improvements and limitations. *Eur. Biophys. J.* 22: 177-183.

- 87) **Møller, I.M.**, Rasmusson, A.G. & Fredlund, K.M. 1993. NAD(P)H-ubiquinone oxidoreductases in plant mitochondria. *J. Bioenerg. Biomembr.* 25: 377-384.
- 88) Bérczi, A. & **Møller, I.M.** 1993. Control of the activity of the plant plasma membrane MgATPase by the viscosity of the aqueous phase. *Physiol. Plant.* 89: 409-415.
- 89) Pical, C., Fredlund, K.M., Petit, P.X., Sommarin, M. & **Møller, I.M.** 1993. The outer membrane of plant mitochondria contains a calcium-dependent protein kinase and multiple phosphoproteins. *FEBS Lett.* 336: 347-351.
- 90) **Møller, I.M.** 1993. Membranas celulares y transporte. In *Fisiología y Bioquímica Vegetal* (J. Azcón-Bieto and M. Talon, eds), pp. 25-47. Interamericana/McGraw-Hill, New York/Madrid. ISBN 84-486-0033-9.
- 91) Rasmusson, A.G., Mendel-Hartvig, J., **Møller, I.M.** & Wiskich, J.T. 1994. Isolation of the rotenone-sensitive NADH-ubiquinone reductase (Complex I) from red beet mitochondria. *Physiol. Plant.* 90: 607-615.
- 92) Gardeström, P., Petit, P.X. & **Møller, I.M.** 1994. Purification and characterization of plant mitochondria and submitochondrial particles. *Methods Enzymol.* 228: 424-431.
- 93) **Møller, I.M.**, Rasmusson, A.G. & Fredlund, K.M. 1994. The role of NADP(H) in plant respiration. *Biolocheskie Membrany* 11: 298-303 (*Membr. Cell Biol.* 8: 307-314, 1995)
- 94) Fredlund, K.M., Struglics, A., Widell, S., Askerlund, P., Kader, J.-C. & **Møller, I.M.** 1994. Comparison of the stereospecificity and immunoreactivity of NADH-ferricyanide reductases in plant membranes. *Plant Physiol.* 106: 1103-1106.
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- 96) **Møller, I.M.**, Fredlund, K.M. & Bérczi, A. 1995. The stereospecificity, purification and characterization of an NADH-ferricyanide reductase from spinach leaf plasma membrane. *Protoplasma* 184: 124-132.
- 97) Bérczi, A., Fredlund, K.M. & **Møller, I.M.** 1995. Purification and characterization of an NADH-hexacyanoferrate(III) reductase from spinach leaf plasma membrane. *Arch. Biochem. Biophys.* 320: 65-72.
- 98) Roberts, T.H., Fredlund, K.M. & **Møller, I.M.** 1995. Direct evidence for the

presence of two external NAD(P)H dehydrogenases coupled to the electron transport chain in plant mitochondria. FEBS Lett. 373: 307-309.

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- 100) **Møller, I.M.** & Brodelius, P. (Eds) 1996. *Plant Membrane Biology Proceedings of Phytochemical Society of Europe 38*, Clarendon Press, Oxford. ISBN 0-19-857776-1.
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- 102) Fredlund, K.M., Widell, S., Struglics, A., Askerlund, P., Kader, J.-C., Bérczi, A. & **Møller, I.M.** 1996. NADH-ferricyanide reductases in plant membranes In *Plant Membrane Biology Proceedings of Phytochemical Society of Europe 38*, (Møller, I.M. & Brodelius, P., eds), pp. 143-151. Clarendon Press, Oxford.
- 103) Melo, A.M.P., Roberts, T.H. & **Møller, I.M.** 1996. Evidence for the presence of two rotenone-insensitive NAD(P)H dehydrogenases on the inner surface of the inner membrane of potato tuber mitochondria. *Biochim. Biophys. Acta* 1276: 133-139.
- 104) **Møller, I.M.**, Roberts, T.H. & Rasmusson, A.G. 1996. Ubiquinone-1 induces external deamino-NAD(P)H oxidation in potato tuber mitochondria. *Plant Physiol.* 112: 75-78.
- 105) Fredlund, K.M., Widell, S. & **Møller, I.M.** 1996. Stereospecificity for NADH of NADH-ferricyanide and NADH-cytochrome c reductase is a marker for the endoplasmic reticulum in plant cells. *Plant J.* 10: 925-933.
- 106) **Møller, I.M.** 1997. The oxidation of cytosolic NAD(P)H by external NAD(P)H dehydrogenases in the respiratory chain of plant mitochondria. *Physiol. Plant.* 100: 85-90.
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