

# List of publications Ian M. Møller

## Publications categorised

Primary publications	1,2,5,7-9,11-17,20,23-28,36-42,45-49,51,52,56,65,69,71-73,75-81,83-86,88,89,91,94,95,97-99,103-105,108-111,118-121,123,124,126,129,132-134,136-137,140,142-146,153,160,164,167-169,171-174,176-177,179-180,188,191-193,197,201-203,206-213,215-221,223-225	125
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	60,128,135,155,159,195,204,222	8
Others	62,127,130,152,157,190	6
Total		225

### Citations:

ISI Web of Knowledge – more than 8300 times with an H-index of 46

Google Scholar – more than 12600 times with an H-index of 53

## 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.
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  - 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.
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  - 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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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.

- 64) Erdei, L., **Møller, I.M.** & Jensén, P. 1989. K<sup>+</sup> uptake in plant roots: Energy supply, growth regulators and genetic control. *Biochem. Physiol. Pflanzen* 184:345-361.
- 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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- 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.
- 84) Rasmusson, A.G., Fredlund, K.M. & **Møller, I.M.** 1993. Purification of the internal rotenone-insensitive NAD(P)H dehydrogenase from red beetroot mitochondria. *Biochim. Biophys. Acta* 1141: 107-110.
- 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)
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- 95) Konstantinov, Y.M. & **Møller, I.M.** 1994. A leucine motif in the amino acid sequence of subunit 9 of the mitochondrial ATPase, and other hydrophobic membrane proteins, that is highly conserved by editing. *FEBS Lett.* 354: 245-247.
- 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.
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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.
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