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IVANA MACHÁČKOVÁ, Z. ZMRHAL (Praha): Srovnání vlivu některých fenolických látek na růst segmentů pšeničných koleoptilí s jejich vlivem na aktivitu IAA-oxidázy. — *Biol. Plant.* **18** : 147—151, 1976.

Kyselina *p*-kumarová (HCA), 2,4-dichlorfenol (DCP) a resorcin působily *in vitro* jako kofaktory IAA-oxidasy izolované z mladých rostlin pšenice. Kyseliny ferulové (FA) a 3,4-dihydroxybenzoové (DHBA) indukovaly před oxidací IAA lag fázi. HCA a FA (0,2—1 mg ml⁻¹) a DCP (0,03—1 mg ml⁻¹) silně inhibovaly růst segmentů pšeničných koleoptilí. DHBA (0,01—1 mg ml⁻¹) jej mírně stimulovala a resorcin jej téměř neovlivnil. HCA brzdila IAA-indukovaný růst segmentů koleoptilí. FA jej při nízkých koncentracích IAA stimulovala, ale při vyšších koncentracích IAA brzdila. DHBA, DCP a resorcin neměly na IAA-indukovaný růst segmentů koleoptilí žádný vliv.

BOOK REVIEW

LUCY, J. A.: *The Plasma Membrane*. — Oxford Biology Readers, 81. Oxford University Press, London 1975. 16 Pp. Price 30 p.

The article can be divided into two parts. The first part informatively describes the chemical composition (lipids, glycolipids, proteins and glycoproteins) and molecular organization of membranes of higher organisms. For demonstrating progress in membrane research Danielli's, Singer's and Nicolson's models of membrane organization are shown. Methods of studying membrane structure such as X-ray diffraction, transmission electron microscopy and freeze-etching are also shortly described. The second part of the article informs of membrane permeability and transport of molecules through membranes. The article contains many informative two-coloured pictures and short information about further reading. It should be used by readers to get basic data on membrane problems.

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