

- FRANKLAND, B., WAREING, P. T.: Effect of gibberellic acid on hypocotyl growth of lettuce seedlings. – *Nature* **185** : 255–256, 1961.
- HOFF, J. E.: A simple method for the approximate determination of soluble protein in potato tubers. – *Potato Res.* **18** : 428–432, 1975.
- KAMADA, H., HARADA, H.: Changes in endogenous amino acid compositions during somatic embryogenesis in *Daucus carota* L. – *Plant Cell Physiol.* **25** : 27–38, 1984.
- KOSTŘICA, P., POLREICOVA, B., DOMKÁŘOVÁ, J.: [Differentiation of adventive shoots in tissue cultures of potato.] In Czech. – *Genetika Šlechtění* **21** : 3–12, 1985.
- KRAUS, A., MARSCHNER, H.: Influence of nitrogen nutrition, daylength and temperature on contents of gibberellic and abscisic acid on tuberization in potato plants. – *Potato Res.* **25** : 13–21, 1982.
- MURASHIGE, T., SKOOG, F.: A revised medium for rapid growth and bioassays with tobacco tissue cultures. – *Physiol. Plant.* **15** : 473–497, 1962.
- PALMER, C. E., SMITH, O. E.: Cytokinins and tuber initiation on isolated stolon *Solanum tuberosum*. – *Nature* **221** : 279–280, 1969.
- ROEST, S., BOKELMANN, G. S.: Vegetative propagation of *Solanum tuberosum* L. *in vitro*. – *Potato Res.* **19** : 173–178, 1976.
- RONCHI, V. N., CALIGO, M. A., NOZZOLINI, M., LUCCARINI, G.: Stimulation of carrot somatic embryogenesis by proline and serine. – *Plant Cell Rep.* **3** : 210–214, 1984.
- SLADKÝ, Z.: The role of inhibitors in the differentiation of inflorescences and tuber initiation. – *Acta Univ. Agr. Brno* **23** : 336–340, 1985.
- SOLDAÑA, H. L., DAWSON, W. O.: The use of constant and alternating temperature regimes and tissue culture to obtain PVS free potato plants. – *Amer. Potato J.* **59** : 221–230, 1982.
- WAREING, P. F.: Hormonal control of stolon and tuber development, especially in the potato plant. – In: *Strategies of Plant Reproduction. Beltsville Symp.* **6** : 181–195, 1983.
- WHEELER, R., HANNAPEL, D., TIBBITTS, T.: Comparison of axillary bud growth and patatin accumulation in potato leaf cuttings as assays for tuber induction. – *Ann. Bot.* **62** : 25–30, 1988.

Fig. 1 at the end of the issue.

BOOK REVIEW

TULLIUS, T. D. (ed.): *METAL-DNA CHEMISTRY*. ACS Symposium Series 402. – American Chemical Society, Washington, DC 1989. 213 pp. US + Canada \$ 49.95, Export \$ 59.95.

The importance of metals for biological systems has been recognized for a long time, mainly in their association with proteins. The study of the chemistry of metals and nucleic acids has begun only recently. This publication is based mainly on lectures presented at the symposium "Transition Metal-Nucleic Acid Chemistry", held at the 195th National Meeting of the American Chemical Society, Toronto, 1988. The introductory article by T. D. Tullius reviews the use of metal complexes as tools for molecular biology. Metal complexes are especially well-suited to use as probes of unusual DNA structures and as replacements for enzymes that are used to manipulate DNA. The other 10 articles focus *e.g.*, on the following topics: chemical nuclease activity of phenanthrolinecopper, excited-state modalities, interaction of porphyrins and metalloporphyrins with nucleic acid, searching for metal-binding domains, inorganic reagents as probes, ³¹P NMR spectroscopic investigations, base selective DNA cleavage with a cyclometallated palladium complex *etc.* Of special interest is the article on the Fur regulon of *E. coli* and on the structures and stabilities of metal-nucleotide complexes.

This publication should prove helpful to researchers involved in all aspects of DNA chemistry.

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