

This section includes the toxic effects of chemicals, venoms, and toxins on plants, nonmammals, and mammals, including subcellular studies. Coverage includes actual or potential environmental pollutants, forensic and medicolegal studies, toxicological analysis, agrochemical toxicity in nontarget organisms, ethanol biological effects, tobacco toxicity, antidotes, and oxygen toxicity. Drug, hormone, and chemical (involving target organisms), food, and cosmetic toxicity and toxicology are covered in Sections 1, 2, 5, 17, and 62, respectively. Toxin studies emphasizing structure elucidation only are covered in Section 6; toxin studies emphasizing microbial infections or the physiology of the formation of the toxins appear in the section appropriate to the investigative organism. Toxic substances used as investigatory tools are covered in the section appropriate to the organism or process under investigation.

101:145109f Chemical carcinogens without mutagenic activity: peroxisome proliferators as a prototype. Reddy, Janardan K.; Scarpelli, Dante G.; Subbarao, Vadrevu; Lalwani, Narendra D. (Med. Sch., Northwestern Univ., Chicago, IL 60611 USA). *Toxicol. Pathol.* 1983, 11(2), 172-80 (Eng). A review and discussion with 39 refs.

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101:145112b Analytical problems related to aluminum determination in body fluids, water and dialyzate. Cornelis, Rita; Schutyser, Patrick (Inst. Nucl. Sci., Univ. Ghent, B-9000 Ghent, Belg.). *Contrib. Nephrol.* 1984, 38(Trace Elem. Renal Insufficiency), 1-11 (Eng). A review with 39 refs. on Al detn. methods as related to kidney pathol. in humans.

101:145113c Dialysis fluids as a source of aluminum accumulation. Savory, John; Wills, Michael R. (Med. Cent., Univ. Virginia, Charlottesville, VA 22908 USA). *Contrib. Nephrol.* 1984, 38(Trace Elem. Renal Insufficiency), 12-23 (Eng). A review with 26 refs. on Al accumulation in human kidney patients and the role of hemodialysis.

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101:145115e Heavy metal contamination from base metal mining and smelting: implications for man and his environment. Davies, Brian E. (Dep. Geogr., Univ. Coll. Wales, Aberystwyth, UK SY23 3DB). *Appl. Environ. Geochem.* 1983, 425-62 (Eng). Edited by Thornton, Iain. Academic: London, UK. A review with many refs.

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101:145117g Structural aspects of metal toxicity. Williams, R. J. P. (Inorg. Chem. Lab., Univ. Oxford, Oxford, UK OX1 3QR). *Life Sci. Res. Rep.* 1984, 28(Changing Met. Cycles Hum. Health), 251-63 (Eng). A review and discussion with 7 refs. with emphasis on human intervention in the environmental levels of metals.

101:145118h The hazard to health of lead exposure at low dose. Needleman, H. L. (Sch. Med., Univ. Pittsburgh, Pittsburgh, PA 15213 USA). *Life Sci. Res. Rep.* 1984, 28(Changing Met. Cycles Hum. Health), 311-22 (Eng). A review with 28 refs. on the neurotoxic effects in humans, esp. children, resulting from exposure to low levels of Pb in the environment.

101:145119j The control of cell differentiation in cultured human cells by tumor promoting agents. Huberman Eliezer (Div. Biol. Med., Argonne Natl. Lab., Argonne, IL 60439 USA). *Transplant. Proc.* 1984, 16(2), 349-50 (Eng). A review and discussion with 19 refs.

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accumulation, distribution, persistence, and metab. of PCBs in mammals and aquatic species.

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101:145131g Phytotoxic air pollutants and oxidative phosphorylation. Ballantyne, D. J. (Dep. Biol., Univ. Victoria, Victoria, BC Can.). *Gaseous Air Pollut. Plant Metab., [Proc. - Int. Symp.]*, 1st 1982 (Pub. 1984), 223-30 (Eng). Edited by Koziol, M. J.; Whatley, F. R. Butterworths: London, UK. A review and discussion with 66 refs. on the inhibiting effect of phytotoxic air pollutants on oxidative phosphorylation of plant mitochondria together with possible reasons suggested for the obsd. inhibitions.

101:145132h The effect of air pollutants on apparent respiration. Black, V. J. (Dep. Hum. Sci., Univ. Technol., Loughborough, UK). *Gaseous Air Pollut. Plant Metab., [Proc. - Int. Symp.]*, 1st 1982 (Pub. 1984), 231-48 (Eng). Edited by Koziol, M. J.; Whatley, F. R. Butterworths: London, UK. A review with many refs. on the effects of air pollutants on respiration in plants.

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