552 YAGER ET AL.

- Vannucci RC, Wolf JW 1978 Oxidative metabolism in fetal rat brain during maternal anesthesia. Anesthesiology 48:238–244
- Lowry OH, Passonneau JV, Hasselberger FX, Schulz DW 1964 Effect of ischemia on known substrates and cofactors of the glycolytic pathway in brain. J Biol Chem 239:18-30
- Vannucci RC, Nardis EE, Vannucci SJ, Campbell PA 1981 Cerebral carbohydrate and energy metabolism during hypoglycemia in newborn dogs. Am J Physiol 240:R192-R199
- Vannucci RC, Hernandez MJ, Wolf JW 1977 Cerebral oxidative metabolism in newborn dogs: comparison of two methods. Ann Neurol 2:265-266
- 21. Thorn W, Scholl M, Pfleiderer G, Mueldener B 1958 Metabolic processes in the brain at normal and reduced temperatures and under anoxic and ischemic conditions. I Neurochem 2:150-165
- conditions. J Neurochem 2:150-165

  22. Brunner EA, Passonneau JV, Molstad C 1971 The effect of volatile anesthetics on levels of metabolites and on metabolic rate in brain. J Neurochem 18:2301-2316
- Hägerdal M, Harp J, Siesjö BK 1975 Effect of hypothermia upon organic phosphates, glycolytic metabolites, citric acid cycle intermediates and associated amino acids in rat cerebral cortex. J Neurochem 24:743-748
- Michenfelder JD, Theye RA 1968 Hypothermia: effect on canine brain and whole-body metabolism. Anesthesiology 29:1107–1112
- Hägerdal M, Harp J, Siesjö BK 1975 The effect of induced hypothermia upon oxygen consumption in the rat brain. J Neurochem 24:311–316
- 26. Astrup J, Sørensen PM, Sørensen HR 1981 Inhibition of cerebral oxygen and

- glucose consumption in the dog by hypothermia, pentobarbital and lidocaine. Anesthesiology 55:263–268
- Kramer RS, Sanders AP, Lesage AM, Woodhall B, Sealy WC 1968 The effect
  of profound hypothermia on preservation of cerebral ATP content during
  circulatory arrest. J Thorac Cardiovasc Surg 56:699–709
- circulatory arrest. J Thorac Cardiovasc Surg 56:699-709
  28. Stocker F, Herschkowitz M, Bossi E, Stoller M, Cross TA, Aue WP, Seelig J 1986 Cerebral metabolic studies *in situ* by <sup>31</sup>P nuclear magnetic resonance after hypothermic circulatory arrest. Pediatr Res 20:867-871
- Vannucci RC, Duffy TE 1976 Cerebral oxidative and energy metabolism of fetal and neonatal rats during anoxia and recovery. Am J Physiol 230:1269– 1275
- 30. Welsh FA, Sims RE, Harris VA 1990 Mild hypothermia prevents ischemic injury in gerbil hippocampus. J Cereb Blood Flow Metab 10:557-563
- injury in gerbil hippocampus. J Cereb Blood Flow Metab 10:557-563
  31. Yoshida S, Abe K, Busto R, Watson BD, Kogure K, Ginsberg MD 1982
  Influence of transient ischemia on lipid-soluble anti-oxidants, free fatty acids
  and energy metabolites in rat brain. Brain Res 245:307-316
- Hyslop PA, Hinshaw DB, Halsey WA, Schraufstätter IU, Sauerheber RD, Spragg RG, Jackson JH, Cochrane CG 1988 Mechanisms of oxidant-mediated cell injury. J Biol Chem 263:1665–1675
- Novelli A, Reilly JA, Lysko PG, Henneberry RC 1988 Glutamate becomes neurotoxic via the N-methyl-D-aspartate receptor when intracellular energy levels are reduced. Brain Res 451:205–212
- Lipton P, Lobner D 1990 Mechanisms of intracellular accumulation in the CA1 region of rat hippocampus during anoxia in vitro. Stroke 21:60-64

## Announcement

## Manuscripts on Electronic Diskettes

## Preparation of Disks

Authors are encouraged to submit electronic diskettes of the final version of their manuscripts along with the typed REVISED manuscript. Diskettes produced on IBM or IBM-compatible computers are preferred, but those produced on most Apple/Macintosh or Wang computers can also be converted. The following word processing programs are preferred: XyWrite III Plus, Word Perfect 4.2, 5.0, or 5.1 (IBM or Macintosh), Microsoft Word (IBM or Macintosh), Wang OIS (WPS), and Wordstar (IBM). Among other word processing systems that we can convert are CPT 8000, MacWrite 2.2 or 4.5, Display Write 3 or 4, Multimate, PC Write, Volkswriter, and Write Now. Authors preparing diskettes on Macintosh computers should not use the Fast Save option. Files in ASCII can also be used, but are not preferred. Identify the diskette by providing journal name, manuscript number, senior author's name, manuscript title, name of computer file, type of hardware, operating system and version number, and software program and version number.

The Journal does not assume responsibility for errors in conversion of customized software, newly released software, and special characters. Mathematics and tabular material will be processed in the traditional manner.