fall in the silk-gland (from 30.1 to 1.6 μmol) and CNS (from 37.4 to 8.5 μmol) during the same period. Thus, prior to spinning of the cocoon the silk-gland and CNS enhance their ACh content while concomitantly decreasing their AChE activity. It clearly indicates an inverse relation between the ACh content and AChE activity. Grzelak *et al*[8,10] showed that the ACh content in abdominal tissues is inversely related to their total AChE activity during the development of the moth, *Celerio euphorbiae*. They have also observed continuous synthesis of ACh after the larval-pupal ecdysis and its level seems to be regulated mainly by the activity of its splitting enzyme AChE. In 1971, they again reported the lack of AChE activity during deep diapause.

Several workers have mentioned a tendency for continuous enhancement in the levels of various biochemical components such as glucose-trehalose levels[5], and protein, total free amino acid, RNA and DNA[6] levels throughout the growth and development of the 5th instar. Thus there is an increased biosynthetic activity which parallels the enhancement of ACh content in the present study. In insects two different pools of ACh were reported, a small pool of 'True' ACh engaged in the functioning of the nervous system and another pool of ACh partaking in lipid and carbohydrate metabolism and unrelated to the nervous system[9,10]. Such functional differentiation perhaps may also be envisaged in the present study in CNS and silk-gland respectively.

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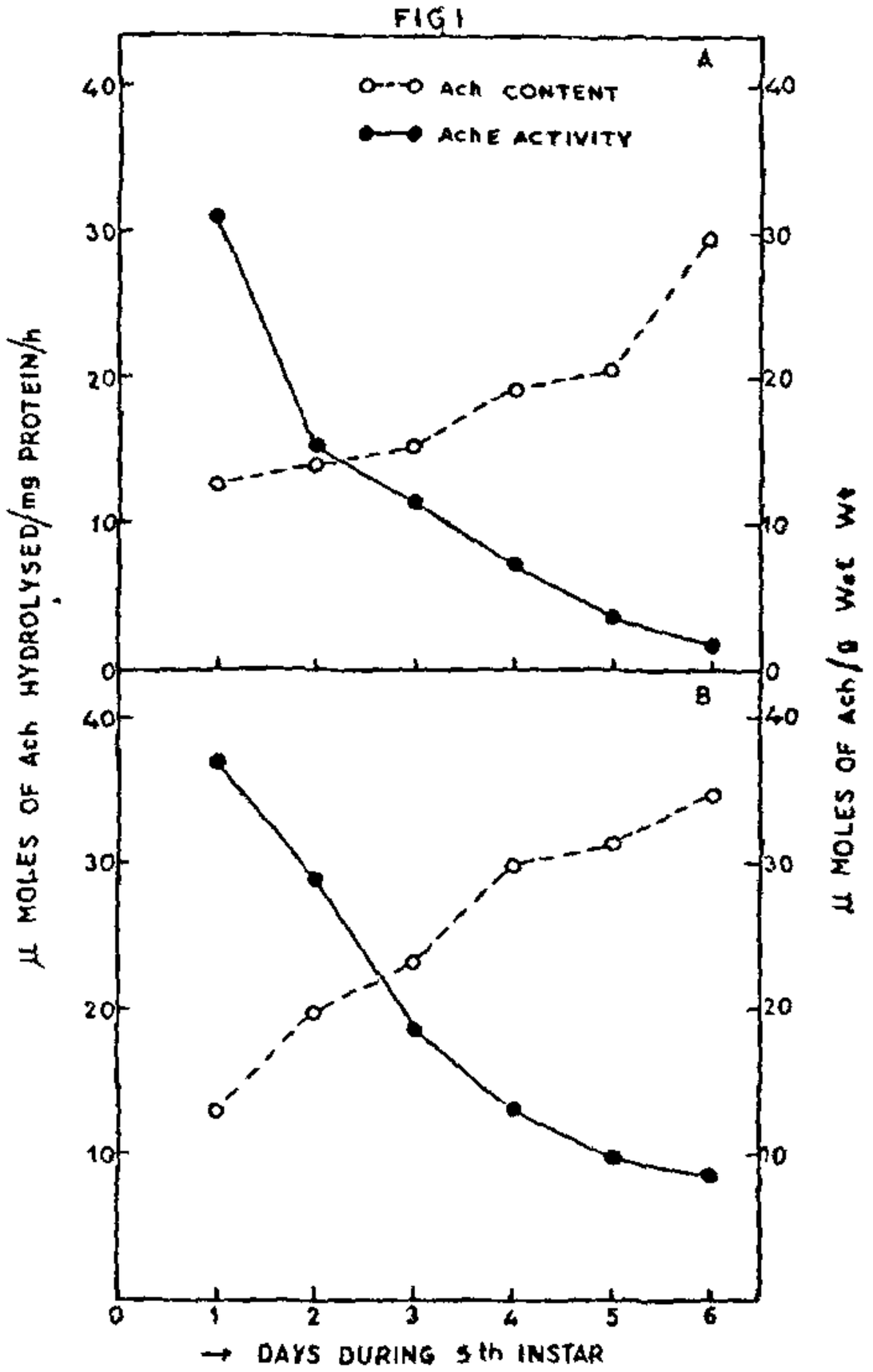
FIG 1

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## ERRATA

*Current Science*, Vol. 52, No. 2 (January 20, 1983) page 61 under the Heading; Stock solution IV, the last but one sentence reads: Double glass distilled water ~~to~~ 25 μg should read as 25 ml.

Page 62 under the Heading, Results and Discussion, second line of para 2, 8 to 60 hours should read as 18 to 60 hours.