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**VARIATION SHOWN IN THE LIBERATION OF CO₂
WITH GROWTH OF *TETRAHYMENA PYRIFORMIS* BY
USING ¹⁴C PYRUVIC ACID**

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The rate of liberation of ¹⁴CO₂ from ¹⁴C pyruvic acid has been measured in a culture of the ciliate *Tetrahymena pyriformis* growing actively at 24°C in proteose-peptone, yeast extract (PPY) medium in a specially set up flask. Cell counts using a haemocytometer and estimates of ¹⁴CO₂ using a Geiger-Muller counter were made daily within the 10 day generation time of the organism. The variation of CO₂ liberated with stage of growth is discussed.