

GENEALOGY DATABASE ENTRY

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Fletcher, Walter Morley

1873 - 1933

DEGREE: MA

DATE: 1898

PLACE: Cambridge

TEACHER/RESEARCH ADVISOR: Langley

investigated muscular metabolism and fatigue; showed that there was no sudden discharge of CO₂ upon contraction but rather a gradual discharge during the muscle's recovery; discovered that muscles contract and relax in the absence of oxygen but that oxygen facilitates their recovery from fatigue; measured simultaneously the discharge of CO₂ and lactic acid during and after contraction in order to study the relationship between them; showed that none of the processes leading to the discharge of CO₂ was directly related to muscular contraction; argued that the absorption of oxygen and the evolution of CO₂ were related to the removal of lactic acid and other fatigue products.

1. *Dictionary of Scientific Biography*; Charles Scribner's Sons: 1970-1990; vol. 5, p36-38.
2. *Dictionary of National Biography*; Smith, Elder & Co.: 1908-1986; (1931-1940), p284-285.
3. *Brit. Med. J.* **1933**, *1*, 1085-1086.
4. *Lancet* **1933**, *224*(pt 2), 1319-1321.
5. *Nature* **1933**, *132*, 17-20.
6. *Obit. Not. Fell. Roy. Soc.* **1933**, *1*, 153-163.
7. *The Cambridge Review* **1933**, *13Oct.*, 6-7.
8. Fletcher, M. *The Bright Countenance: A Personal Biography of Walter Fletcher*; Hodder and Stoughton: 1957.