

# GENEALOGY DATABASE ENTRY

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Hill, Archibald Vivian

1886 - 1977

DEGREE: MA

DATE: 1909

PLACE: Cambridge

TEACHER/RESEARCH ADVISOR: Fletcher

Nobel Prize in 1923 in Medicine and Physiology for his discovery relating to the production of heat in the muscles by the breakdown of carbohydrates to lactic acid; developed methods for the study of mechanical and thermal energy exchanges during muscular contraction and their relation to the chemical process in muscle tissue; brought physico-chemical ideas and high-precision measurements to bear on biological problems; studied kinetics of the oxygen-hemoglobin reaction; first to detect the heat produced during the conduction of nerve impulses.

1. *Biog. Mem. Fell. Roy. Soc.* **1978**, 24, 71-149.
2. *Dictionary of National Biography*; Smith, Elder & Co.: 1908-1986; (1971-1980), p406-408.
3. *A Biographical Dictionary of Scientists, 3rd Ed.*; Williams, T. I., Ed.; Wiley: 1982; (Suppl), p596.
4. Stevenson, L. G. *Nobel Prize Winners in Medicine and Physiology 1901-1950*; H. Schuman: 1953; p102-108.
5. *Persp. Biol. Med.* **1970**, 14, 27-42.
6. *Nature* **1977**, 268, 777-778.