Sir James Gray Encyclopedia Article

Sir James Gray

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Sir James Gray

1891-1975

British zoologist who analyzed the mechanisms of cell and animal locomotion. His research on cellular movements are contained in *Ciliary Movements* (1928) and his classic text *Experimental Cytology* (1931), which helped unify the field of cytology. Gray applied mechanical engineering principles to solve biological problems of animal locomotion, and his publications *How Animals Move* (1953) and *Animal Locomotion* (1968) led to greater understanding of biological locomotion. Gray was honored with the royal medal of the Royal Society in 1948 and was knighted in 1954.