



Aglow in the Dark: The Revolutionary Science of Biofluorescence

Vincent Pieribone, David F. Gruber

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In the early 1960s, in a small shack on the Washington coast, a young, self-educated Japanese scientist performed an experiment to determine what made a certain jellyfish glow. The substance he discovered, green fluorescent protein, would revolutionize molecular biology, transforming our study of everything from the AIDS virus to the workings of the brain. *Aglow in the Dark* follows the path that took this glowing compound from its inauspicious arrival on the scientific scene to its present-day eminence as one of the most groundbreaking discoveries of the twentieth century.

The story unfolds in far-flung places, from the coral reefs of the Pacific Ocean, to the medical schools and marine stations of our leading universities, to a cold war-era research laboratory in Moscow. Traversing the globe and the decades, *Aglow in the Dark* conveys the human fascination with bioluminescence, or "living light," its little-known application in war, forensic science, and molecular biology, and how it led to the finding of green fluorescent protein. The book reveals a hidden world where light is manipulated by animals and humans and put to remarkable uses--unlocking the secrets of the human brain, conquering dreaded diseases, and perhaps someday linking minds and machines. The authors deftly lead the reader through a complex story at the interface of biology and physics--and into the realm of wonder on the frontiers of scientific endeavor.

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