
Bioluminescence's branches and leaves: The legacy of Professor E. Newton Harvey

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Abstract

The precursor of the bioluminescence field was Edmund Newton Harvey, a professor at Princeton University. In this work, we seek to describe the development of this area through the characterization of the academic genealogy of Prof. Harvey. The object of study in this work is the mentoring relationships between advisors and advisees, whose structure can be evidenced through graphs of academic genealogy. The data considered in this work were obtained from the "The Academic Family Tree" platform where 118 records of descendant students were prospected from Prof. Harvey, who are interconnected by 120 mentoring relationships, these descendants belong to the six distinct areas of knowledge. The academic impact of Prof. Harvey influences six generations of researchers belonging to his offspring. The first generation is composed of three academics (Frank H. Johnson, William D. McElroy and John Woodland "Woody" Hastings) and in subsequent generations, we observed 5, 21, 34, 45 and ten academics, respectively. The researcher who most carried out academics mentoring was Prof. Lennart Mucke, who directed a total of 13 students, followed by Tom Cline with 12 students, and Tony Wyss-Coray and Rafi Ahmed, both with ten students each. This work will allow mapping the interdisciplinarity among the descendants of Prof. Harvey, as well as identify the evolution of scientific knowledge from the field of bioluminescence.

Keywords: Academic Genealogy, Bioluminescence, Newton Harvey, Scientometric.

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