## **GENEALOGY DATABASE ENTRY**

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Woodward, Robert Burns

1917 - 1979

DEGREE: PhD DATE: 1937 PLACE: MIT TEACHER/RESEARCH ADVISOR: Ashdown

Nobel Prize 1965; developed Woodward rules for the structural interpretation of UV spectra; synthesized quinine, cholesterol, strychnine, chlorophyll, lysergic acid, cephalosporin c, reserpine, tetracycline, vitamin B12 (with Eschenmoser), and prostaglandin F; deduced structures of penicillin, tetrodotoxin, and ferrocene (with Wilkinson); co-developed the octant rule for the structural interpretation of optical rotatory dispersion spectra, the Woodward-Hoffmann rules for the stereochemistry of electrocyclic reactions, and the concept of conservation of orbital symmetry; delineated role of squalene in the biogenesis of steroids (with Bloch); early advocate of IR and UV spectroscopy and HPLC in organic synthesis.

- 1. Personal communication to A. J. Ihde (1970) confirmed PhD advisor.
- 2. Biog. Mem. Fell. Roy. Soc. 1981, 27, 629-695.
- 3. Chem. Brit. 1980, 16, 210-216.
- 4. Asimov, I. Asimov's Biographical Encyclopedia of Science and Technology (2nd Ed.); Doubleday: 1982; p864-865.
- 5. McGraw-Hill Modern Scientists and Engineers; Mcgraw-Hill: 1980; vol. 3, p347-348.
- 6. Boston Globe 1937, June 8 issue.
- 7. *Heterocycles* **1977**, *7*, 1-35.