

GENEALOGY DATABASE ENTRY

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Willstätter, Richard

1872 - 1942

DEGREE: PhD

DATE: 1894

PLACE: Munich

TEACHER/RESEARCH ADVISOR: Einhorn

Nobel Prize 1915 for his pioneer researches on plant pigments, esp. chlorophyll; separated chlorophyll into two components, showed them to be magnesium complexes of a porphyrin derivative, and found that the enzyme chlorophyllase catalyzes the transesterification of phytol by ethanol; demonstrated that tropine alkaloids have a bicyclic structure containing a seven-membered ring; prepared cyclooctatetraene; studied the chemistry of quinones and quinone imines, the Wurster dyes, and aniline black; studied pigments found in flowers and showed them to be oxonium salts; developed methods for the purification of enzymes, esp. peroxidase, lipase, trypsin, and amylase.

1. *Obit. Not. Fell. Roy. Soc.* **1952-1953**, 8, 609-634.
2. *Dictionary of Scientific Biography*; Charles Scribner's Sons: 1970-1990; vol. 14, p411-412.
3. *J. Am. Chem. Soc.* **1943**, 65, 127-128.
4. *Proc. Indian Acad. Sci.* **1943**, 17A, 143-157.
5. *J. Chem. Ed.* **1961**, 38, 10-15.
6. *Helv. Chim. Acta* **1973**, 56, 1-14.
7. *J. Chem. Soc.* **1953**, 999-1026.
8. *Great Chemists*; Farber, E., Ed.; Interscience: 1961; p1367-1374.
9. Partington, J. R. *A History of Chemistry*; Macmillan: 1964; vol. 4, p860-866.
10. Willstätter, R. *Aus Meinem Leben*; Stoll, A., Ed.; Verlag Chemie: 1949.