

GENEALOGY DATABASE ENTRY

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Dumas, Jean Baptiste André

1800 - 1884

DEGREE: none

DATE: 1823 ca.

PLACE: Geneva

TEACHER/RESEARCH ADVISOR: LeRoyer/De La Rive

established presence of iodine in marine sponges; devised tincture of iodine; recognized function of kidneys in the elimination of urea; discovered methanol; isolated anthracene; analyzed camphor and menthol; analyzed CHCl_3 and extensively studied replacement of hydrogen by chlorine in organic compounds; developed theory of chemical substitution and concept of homologous series; devised first practical method for determining nitrogen in organic compounds; discovered dehydration of amides to nitriles.

FOOTNOTE: In Geneva, Dumas studied pharmacy in LeRoyer's laboratory and listened to chemistry lectures by De La Rive. Although his chemical research during this period was apparently carried out independently, it was to De La Rive that Dumas turned for advice. In 1820, Dumas published researches on iodine as a remedy for goiter with LeRoyer. From 1821 to 1823, Dumas collaborated with J. L. Prévost on a series of physiological investigations. In 1823, Dumas went to Paris and shortly thereafter was named professor at the Athenaeum.

1. *Nature* **1880**, 21 (Feb. 6, special number), i-xl.
2. *Genie Civil* **1884**, 5, 409-418.
3. Asimov, I. *Asimov's Biographical Encyclopedia of Science and Technology (2nd Ed.)*; Doubleday: 1982; p342.
4. *A Biographical Dictionary of Scientists*; Williams, T. I., Ed.; Wiley: 1969; p154-155.
5. Partington, J. R. *A History of Chemistry*; Macmillan: 1964; vol. 4, p337-340.
6. *Great Chemists*; Farber, E., Ed.; Interscience: 1961; p521-533.
7. *Proc. Roy. Soc.* **1884**, 37, x-xxvii.
8. *J. Chem. Soc. Trans.* **1885**, 47, 310-323.
9. *J. Chem. Ed.* **1951**, 28, 630-633.
10. *Proc. Am. Acad. Arts Sci.* **1884**, 19, 545-556.
11. *Am. J. Sci.* **1884**, 28, 289-299.
12. *Dictionary of Scientific Biography*; Charles Scribner's Sons: 1970-1990; vol. 4, p242-248.
13. *Chem. Ber.* **1884**, 17, 629A-760A.
14. *Bull. Soc. Chim. Fr.* **1886**, 45, i-x and 1-64.
15. *Compt. Rend.* **1884**, 98, 933-945.
16. Tilden, W. A. *Famous Chemists*; Routledge & Sons: 1921; p205-215.
17. Thorpe, E. *Essays in Historical Chemistry*; Macmillan: 1923; p318-363.
18. See *Naturwiss. Anzeiger* **1820**, Sept(supplement) 1-4 for Dumas' connection to LeRoyer.
19. *Das Buch der Grossen Chemiker*; Bugge, G., Ed.; Verlag Chemie: 1930; vol. 2, p53-68.
20. Chaigneau, M. *Jean-Baptiste Dumas Sa Vie, Son Oeuvre 1800-1884*; Guy le Prat: 1984.