

**Jacques Etienne Berard**  
(Montpellier, 1817)

**Antoine J. Balard**  
Discovery of element 35 bromine **(1826)**

**BERARD TREE**

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**Joseph Le Bel**  
(Ecole Polytech., Paris, 1867)  
stereochemistry and tetrahedral carbon **(1874)**

**Maurice Hanriot**  
(Paris, 1880)

**Bouveault-Blanc**  
reaction **(1903)**  
Acyloin condensation  
**(1905)**

**Grignard** reaction  
**Grignard** reagent **(1900)**  
organomagnesium halides  
in organic synthesis  
**Chemistry Nobel 1912**

**Gilman** organometallic  
reagents **(1936)**

**Francois E. Mallard**  
(Ecole des Mines, 1853)  
Discovery of isomorphism  
and polymorphism in crystals **(1880+)**

**Le Chatelier** principle  
**(1884)**

**Berthelot** equation **(1875)**

**Barbier-Wieland**  
reaction  
**(1912 - 1913)**

**Delepine**  
reaction **(1895)**      **Gibbs-Duhem** equation  
**(1886)**

**Paul Sabatier**  
Hydrogenations of  
unsaturated organic compounds  
**Chemistry Nobel 1912**

**Antoine Villiers-Moriame**  
(College de France, 1880)  
Discovery of cyclodextrins **(1891)**

**Bravais-Friedel** law **(1904)**  
Law of rational symmetric intercepts **(1905)**  
Law of mean indices **(1908)**  
Discovery of zeolites and water zeolites **(1896+)**

**Pasteur** pipet; stereochemistry (definition of  
enantiomers; R/S tartrates) **(1848)**;  
alcohol fermentation; germ theory of disease **(1861)**;  
**pasteurization** **(1867)**; vaccines for rabies; anthrax

**Wurtz** coupling reaction **(1855)**  
**Wurtz-Fittig** reaction **(1864)**

**Friedel-Crafts** alkylation  
and acylation reactions **(1877)**      **Louis E. Grimaux**  
(Sorbonne, 1877)

**Pierre E. Duclaux**  
(Ecole Norm. Sup., 1865)

**Emile Roux**  
(Paris, MD 1881)

**Charles J.H. Nicolle**  
Investigation of typhus  
**Physiology & Medicine Nobel 1928**

**Georges Urbain**  
Discovery of element 71, lutetium **(1907)**  
**Bouveault-Blanc**  
reaction **(1903)**  
Acyloin condensation **(1905)**  
**Lobry de Bruyn-van Eckenstein**  
transformation **(1895)**

**Paul E.L. de Boisbaudran**  
Discovery of element 31, gallium **(1875)**  
Discovery of element 62, samarium **(1879)**  
Discovery of element 66, dysprosium **(1886)**

**Lobry de Bruyn-van Eckenstein**  
transformation **(1895)**