

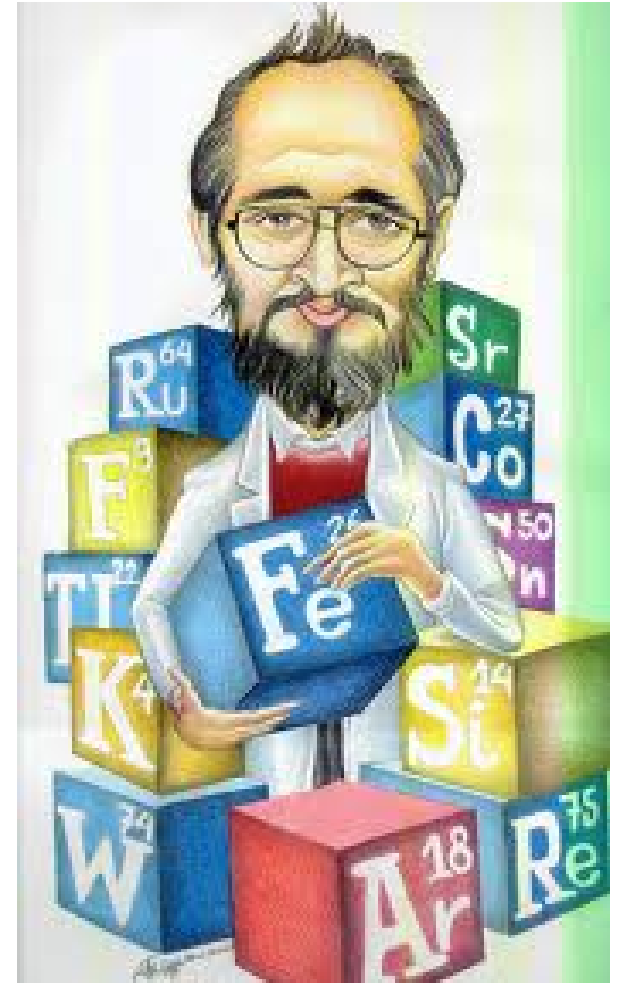
CHEMISTRY

A blessing or a curse?



What is chemistry?

- Chemistry is the **science of matter**, especially it's chemical reactions, but also it's composition, structure and properties. Chemistry is concerned with atoms and their interactions with other atoms, and particularly with the properties of chemical bonds.



Alchemy and chemistry

- **Chemistry:** has arisen from the ashes of Arab alchemy between the sixteenth and eighteenth centuries.

Etymology: from the Arabic name 'alchemy'.

- **Alchemy:** is an influential philosophical tradition whose early practitioners' claims to profound powers were known from antiquity.

Etymology : from the Arabic al-Kimiya which in turn derives from the greek byzantine chuméhia that signiica art of metal alloys or art of the land of Egypt



HISTORY

Egyptian Alchemy

[up to 4,000 years ago]

Extracting metal from their ores, making pottery and glazes, fermenting beer and wine, making pigments for cosmetics and painting, extracting chemicals from plants for medicine and perfume, making cheese, dying cloth, alloys like bronze.



HISTORY

Greek Alchemy

[332 BC – 642 AC]

The Macedonian king Alexander the Great conquers Egypt and founds Alexandria, having the world's largest library.



HISTORY

Islamic Alchemy

[642 AC – 1200]

The Muslim conquest of Egypt; development of alchemy by Jābir ibn Hayyān, al-Razi and others; Jābir modifies Aristotle's theories; advances in processes and apparatus.



HISTORY

European Alchemy

[1300 – present] European Alchemy is based on Arabic chemistry.

[1661] Boyle: The Sceptical Chymist.

[1787] Lavoisier: Elements of Chemistry.

[1803] Dalton: Atomic Theory.

[1869] Mendeleev: Periodic table