















The separation of the isotopes of chlorine as seen in the movie "medicine man"

In the movie the separation of chlorine isotopes were accomplished by the use of a mass spectrometer

> Got's to save that rain forest Go Sean go!!!











Yes, elements can be chemically changed in a **nuclear reaction**, either by

- 1) <u>fission</u> (a large atom fizzles down into smaller atoms)
- 2) <u>fusion</u> (to fuse atoms together into large atoms)







The Nobel Prize in Chemistry Marie Curie - Facts



Marie Curie, née Sklodowska

Born: 7 November 1867, Warsaw, Russian Empire (now Poland)

Died: 4 July 1934, Sallanches, France

Affiliation at the time of the award: Sorbonne University, Paris, France

Prize motivation: "in recognition of her services to the advancement of chemistry by the discovery of the elements radium and polonium, by the isolation of radium and the study of the nature and compounds of this remarkable element"

Field: nuclear chemistry

The Nobel Prize in Chemistry

The Nobel Prize in Chemistry 2009

→ Ada E. Yonath

"for studies of the structure and function of the ribosome"

The Nobel Prize in Chemistry 1964

"for her determinations by X-ray techniques of the structures of important biochemical substances"

The Nobel Prize in Chemistry 1935

→ Irène Joliot-Curie

"in recognition of their synthesis of new radioactive elements"

The Nobel Prize in Chemistry 1911

Marie Curie, née Sklodowska

"in recognition of her services to the advancement of chemistry by the discovery of the elements radium and polonium, by the isolation of radium and the study of the nature and compounds of this remarkable element"

Ada E. Yonath - Facts



Affiliation at the time of the award: Weizmann Institute of Science, Rehovot, Israel

: 22 June 1939, Jerusalem, ih Mandate of Palestine (n

Ada E. Yonath

srael)

structure and function of the ribosome" Field: biochemistry, structural

Dorothy Crowfoot Hodgkin - Facts



Died: 29 July 1994, Shipstonon-Stour, United Kingdom Affiliation at the time of the award: University of Oxford, Ro Society, Oxford, United Kingdor

The Nobel Prize in Chemistry 1935



The Nobel Prize in Chemistry 1935 was awarded jointly to Frédéric ollot and Irène Jollot-Curie "in recognition of their synthesis of new radioactive elements"



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