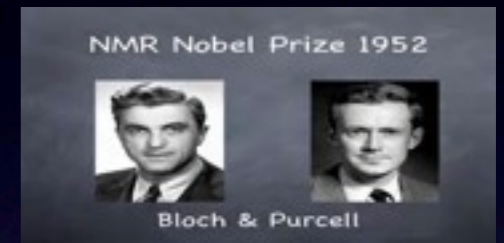


History of MRI



Ask Mish

- 1947: NMR principle discovered by **Felix Bloch** and **Edward Mills Purcell**.



- 1977: first images taken by **Paul Lauterbur** (left) and **Peter Mansfield** (right). Lauterbur proposed in 1972 the use of **gradient coils** that allowed spatial localization of tissues on 2D images. Peter Mansfield developed a mathematical technique that allow scan to take **seconds** rather than hours.



- **Raymond Damadian** (big pic on the left) was the first to propose the use of NMR to diagnose disease in humans in an article published in "Science" in March 1971 called "**Tumor detection by NMR**". He also created the **first MRI machine** in 1972.

2003 Nobel Prize

- Reflecting the fundamental importance and applicability of MRI in the medical field, **Paul Lauterbur** of the **University of Illinois at Urbana-Champaign** and **Sir Peter Mansfield** of the **University of Nottingham** were awarded the 2003 **Nobel Prize in Physiology or Medicine** for their "discoveries concerning magnetic resonance imaging".

