

## Nobel Prize Special

## Nobel Prizes 2025

When Alfred Nobel, inventor of dynamite, died, his will stated that his fortune was to be used to reward “those who, during the preceding year, shall have conferred the greatest benefit to humankind.”. The first Nobel Prizes were awarded in the following fields: physics, chemistry, physiology or medicine, literature and peace. In 1969, a new prize was established – the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel, informally referred to as the Nobel prize for Economics. Annually, Nobel Prizes and laureates are announced in October.

**Nobel Prize in Physiology or Medicine:**

The 2025 Nobel Prize in Physiology or Medicine has been awarded to Mary E. Brunkow, Fred Ramsdell, and Shimon Sakaguchi for their groundbreaking work on regulatory T cells (Tregs), which prevent the immune system from attacking the body. Sakaguchi discovered Tregs in 1995, revealing immune tolerance, while Brunkow and Ramsdell identified the *Foxp3* gene in 2001, linking its mutations to autoimmune diseases.

**Nobel Prize in Physics:**

The Nobel Prize in Physics 2025 has been awarded to John Martinis, Michel H. Devoret and John Clarke for their pioneering experiments that proved even large systems made of billions of particles can display quantum behavior under controlled conditions. Their groundbreaking work in the 1980s established a crucial foundation for the development of quantum computers.

**Nobel Prize in Literature:**

Hungarian author László Krasznahorkai won the 2025 Nobel Prize in Literature for his visionary works exploring apocalyptic themes and the power of art. His famous works include *Satantango*, *The Melancholy of Resistance*, *War & War*, *Seiobo There Below*, *The Last Wolf*, and *The World Goes On*.

**Nobel Prize in Peace:**

Venezuelan opposition leader Maria Corina Machado has been awarded the 2025 Nobel Peace Prize for her relentless advocacy for democratic rights and efforts to foster a peaceful transition from dictatorship to democracy in Venezuela. Machado co-founded the civil organization *Súmate*, promoting free and fair elections and has served as a member of Venezuela's National Assembly.

**Nobel Prize in Chemistry:**

The 2025 Nobel Prize in Chemistry has been awarded jointly to Susumu Kitagawa, Richard Robson and Omar M. Yaghi for the development of metal-organic frameworks (MOFs) — a new form of molecular architecture whereby their porous frameworks create “rooms” for chemistry and have been used to harvest water from desert air, capture carbon dioxide, extract pollutants from water and store hydrogen.

**Nobel Prize in Economics:**

The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 2025 was awarded for work explaining innovation-driven economic growth. One half of the prize went to Joel Mokyr “for having identified the prerequisites for sustained growth through technological progress,” while the other half was shared by Philippe Aghion and Peter Howitt “for the theory of sustained growth through creative destruction,” which shows how innovation and competitive renewal drive long-term economic development.

Compiled by  
**Seema Chari and  
Kunal Savarkar**

**xpress minds**