

# Latest Inventions & Discoveries in Science

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**Substitute for human skin developed** – Israeli surgeons have now developed a successful, safe and effective substitute for the human skin which is expected to find used market soon. The artificial skin called the ‘Omiderm’ is a thin plastic transparent sheet.

**Artificial corneas developed** – For the first time in the history of medical science lab grown corneas, which could restore the sight of blind people have been developed by scientists in the United States.

**Scientists Discover Fern that Suck up Arsenic** – As per reports dated February 1, 2001, U.S. Scientists have found a fern that sucks up arsenic holding out the prospect of a fast, cheap and safe way of cleaning up contaminated mines and industrial sites.

**World’s First Rain-making Machine** – Professor Stephan Salter at Scotland’s Edinburgh University has been awarded a government grant to develop the world’s first rain-making machine. Prof. Salter will create 200 feet high turbine to suck water out of sea and turn it into water vapors through nozzles, spraying it up into the atmosphere. The rain maker, described as looking like ‘giant egg-heater’, would be based on Catamarans’ and placed off the coast of desert land.

**Vegetable Salt** – Researchers at the Central Salt and Marine Chemicals Research Institute at Bhavnagar (Gujrat) have succeeded in producing salt from a vegetable plant. Named ‘Saloni’, it contains several important nutrients not normally found in sea salt. The institute has applied for an international patent.

**World’s First Remote Surgery** – Australia’s top kidney specialist Dr. David Nicol of Brisbane’s Princess Alexandra Hospital helped doctors in New Zealand to carry out a delicate operation, removal of a diseased kidney from a woman, using advanced digital conferencing technology and remote control cameras to talk to his New Zealand counterparts throughout the operation.

**The First Artificial Structure** – A team of researchers led by David Baker of Howard Hughes Medical Institute at the University of Washington, USA has recently developed a novel functional 93-amino acid protein structure called Top-7. It is the first artificial protein designed and developed by scientists.

As experts believe, this feat will go a long way in enabling scientists to have answers to some mind-boggling questing regarding the evolution of proteins as well as the process of a certain protein folding over others.

**Mice Created in Lab without Genetic Fathers** – As per reports published in the April issue of Nature, a team of Japanese scientists led by Tamohiro Kono of the Tokyo University has succeeded in creating mice by using two genetic mothers and no father. It has been referred to as an unprecedented land mark in the sphere of genetic research as far as mammals are concerned.

**Particle Collider Test Successfully Conducted** – The world's largest particle Collider passed its first major test by firing two beams of protons in opposite direction around a 17 mile (27 km) under-ground ring on September 10, 2008 at the control centre of the CERN (European Organization for Nuclear Research) in what scientist believe could give a better understanding of origin and make up of the Universe. After a series of trial runs two white dots flashed on a computer screen indicating that the protons had traveled clockwise along the full length of the 4 billion Swiss francs (\$ 3.8 billion) Large Hadron Collider, described as the biggest physics experiment in history. Physicists around the world now have much greater power to smash the components of atoms together in attempts to learn about their structure. The European Organization for Nuclear Research known by its French acronym CERN began firing protons – a type of subatomic particles around the tunnel in stages with the first beam injection. Five hours later, a beam was fired counter-clockwise. The collider is designed to push the proton beam close to the speed of whizzing 11,000 times a second around the tunnel.

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