

## Lesson 3 Leading Scientists & Experts

SUB- SECTION	NAME	BORN - DIED	NOBEL PRIZE	MAIN EXPERTISE	IMAGE
3.1	Aaron Ciechanover	October 1 1947	2004	<ul> <li>Aaron Ciechanover together with his PhD mentor         Avram Hershko discovered the biological system which         is responsible for degrading proteins in the cells of our         body.</li> <li>Along with Irwin Rose they demonstrated that protein         degradation is a multistep process; Unbiquitin, a small         protein tag, is attached to the target protein which is         then identified by the proteasome.</li> <li>The proteasome cuts the protein into small pieces that         are recycled into their amino acid building blocks. The</li> </ul>	



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				understanding of the molecular mechanisms underlying protein degradation has led to the rational design of new anti-cancer therapeutics.  He received the Nobel Prize in Chemistry in 2004	
3.2	Robert Koch	December 11 1843 – May 27 1910	1905	<ul> <li>Robert Heinrich Hermann Koch, was a German physician and a pioneer in the field of microbiology.</li> <li>Koch played a vital role in the identification of the pathogenic agents of Anthrax, Cholera and Tuberculosis.</li> <li>With the vast experience he accumulated over the years he was able to formulate four generic rules known as "Koch's Postulates":</li> </ul>	



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				<ol> <li>The specific pathogen must be found in abundance in every case of the disease.</li> <li>The pathogen must be isolated and grown in pure culture.</li> <li>The disease is reproduced when a healthy susceptible host is inoculated with the pure culture.</li> <li>The same pathogen can be recovered from the experimentally infected host.</li> <li>These "Koch's Postulates" are used, even to this day, to ascertain the cause of many infectious diseases.</li> <li>He received the Nobel Prize in Physiology or Medicine in 1905</li> </ol>	