


Lesson 5

Leading Scientists & Experts

SUB-SECTION	NAME	BORN - DIED	NOBEL PRIZE	MAIN EXPERTISE	IMAGE
5.2	Alexander Fleming, Ernst Boris Chain and Howard Walter Florey	August 6, 1881 – March 11, 1955 June 19, 1906 – August 12, 1979 September 24, 1898 – February 21, 1968	1945	<ul style="list-style-type: none"> ▪ Alexander Fleming, an Army Medic was deeply influenced by the fact the many soldiers died of sepsis complications from bacterial infections rather than directly from their battle wounds. In view of this he devoted his research career in the search of antibacterial agents. His first major discovery was of the enzyme Lysozyme. Subsequently he discovered Penicillin. ▪ In 1945 along with Ernst Boris Chain and Howard Walter Florey, he received the Nobel Prize in Medicine for their work on Penicillin. 	

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5.4	Bruce Alan Beutler	December 29, 1957 -	2011	<ul style="list-style-type: none"> ▪ Bruce Beutler is a geneticist/immunologist who studied the molecular mechanisms of sepsis. He discovered that Toll-Like Receptor (TLR) 4 is the receptor for LPS (endotoxin). ▪ He has continued to be a leading figure in elucidating the mechanisms of innate immunity and together with Jules A. Hoffmann and Ralph M. Steinman was awarded the Nobel Prize in Medicine in 2011. 	