

Dr. OP Singh Bio Classes

List of Geneticists

For all India level competitive entrance exams

1. Sidney Altman (born 1939), Canadian-US biophysicist who won Nobel Prize for catalytic functions of RNA
2. Werner Arber (born 1929), Swiss microbiologist, Nobel Prize for discovery of restriction endonucleases
3. William Astbury (1898–1961), UK molecular biologist, X-ray crystallography of proteins and DNA
4. Oswald Avery (1877–1955), Canadian-born US co-discoverer that DNA is the genetic material
5. Édouard-Gérard Balbiani (1823–1899), French embryologist who found chromosome puffs now called Balbiani rings
6. David Baltimore (born 1938), US biologist, Nobel Prize for the discovery of reverse transcriptase
7. William Bateson (1861–1926), British geneticist who coined the term "genetics"
8. George Beadle (1903–1989), US Neurospora geneticist and Nobel Prize-winner
9. Calvin Bridges (1889–1938), US geneticist, non-disjunction proof that chromosomes contain genes
10. Erwin Chargaff (1905–2002), Austrian-born US biochemist, Chargaff's rules led to the double helix
11. Martha Chase (1927–2003), US biologist, with Hersey proved genetic material is DNA, not protein
12. Carl Correns (1864–1933), German botanist and geneticist, one of the re-discoverers of Mendel in 1900
13. Francis Crick (1916–2004), English molecular biologist, neuroscientist, co-discoverer of the double helix
14. C. D. Darlington (1903–1981), British biologist and geneticist, elucidated chromosomal crossover
15. Charles Darwin (1809–1882), English naturalist and author of *On the Origin of Species*
16. Hugo de Vries (1848–1935), Dutch botanist and one of the re-discoverers of Mendel's laws in 1900
17. John Edwards (1928–2007), British medical geneticist and cytogeneticist who first described trisomy 18
18. Ed Fischer (born 1920), Swiss-US biochemist, Nobel Prize for phosphorylation as switch activating proteins

19. Rosalind Franklin (1920–1958), British crystallographer whose data led to discovery of double helix
20. Francis Galton (1822–1911), British geneticist, eugenicist, statistician
21. JBS Haldane (1892–1964), brilliant British human geneticist and co-founder of population genetics
22. Harvey Itano (1920–2010), American biochemist and pioneer in the study of sickle cell disease
23. Alec Jeffreys (born 1950), British geneticist, developed DNA fingerprinting and DNA profiling techniques
24. Wilhelm Johannsen (1857–1927), Danish botanist who in 1909 coined the word "gene"
25. Gobind Khorana (1922–2011), Indian-US molecular biologist, synthesized nucleic acids, Nobel Prize
26. David Klein, (1908–1993), Swiss ophthalmologist and human geneticist
27. Arthur Kornberg (1918–2007), US biochemist, Nobel Prize on DNA synthesis, father of Roger Kornberg
28. Roger Kornberg (born 1947), US biologist, Nobel Prize on eukaryotic transcription
29. Karl Landsteiner (1868–1943), Austrian-American pathologist, won Nobel Prize for blood group discoveries
30. Esther Lederberg (1922–2006), US microbiologist and bacterial genetics pioneer
31. Maclyn McCarty (1911–2005), US co-discoverer that DNA is the genetic material
32. Barbara McClintock (1902–1992), US cytogeneticist, Nobel Prize for genetic transposition
33. Gregor Mendel (1822–1884), Bohemian monk who discovered laws of Mendelian inheritance
34. Matthew Meselson (born 1930), US molecular geneticist, work on DNA replication, recombination, repair
35. Jacques Monod (1910–1976), French molecular biologist, Nobel Prize-winner
36. T. H. Morgan (1866–1945), head of the "fly room," first geneticist to win the Nobel Prize
37. H. J. Muller (1890–1967), US Drosophila geneticist, Nobel Prize for producing mutations by X-rays
38. Kary Mullis (1944–2019), US biochemist, Nobel Prize for the polymerase chain reaction (PCR)
39. Marshall W. Nirenberg (1927–2010), US geneticist, biochemist and Nobel Prize-winner
40. Severo Ochoa (1905–1993), Spanish-American biochemist, Nobel Prize for work on the synthesis of RNA
41. Klaus Patau (1908–1975), German-American cytogeneticist, described trisomy 13
42. RC Punnett (1875–1967), early English geneticist, discovered linkage with William Bateson
43. Richard Roberts (born 1943), British molecular biologist, Nobel Prize for introns and gene-splicing

44. Fred Sanger (1918–2013), UK biochemist, two Nobel Prizes, sequence of insulin, DNA sequencing method
45. Ed Southern (born 1938), UK molecular biologist, invented Southern blot and DNA microarray technologies
46. Nettie Stevens (1861–1912), US geneticist, studied chromosomal basis of sex and discovered XY basis
47. Alfred Sturtevant (1891–1970), constructed first genetic map of a chromosome
48. James B. Sumner (1887–1955), US biochemist, Nobel Prize, found enzymes can be crystallized
49. M. S. Swaminathan (born 1925), Indian agricultural scientist, geneticist, leader of Green Revolution in India
50. Edward Tatum (1909–1975), showed genes control individual steps in metabolism
51. Howard Temin (1934–1994), US geneticist, Nobel Prize for discovery of reverse transcriptase
52. Joe Hin Tjio (1919–2001), Java-born geneticist who first discovered humans have 46 chromosomes
53. Erich von Tschermak (1871–1962), Austrian agronomist and one of the re-discoverers of Mendel's laws
54. Alfred Russel Wallace (1823–1913), Welsh, proposed natural selection theory independent of Darwin
55. James D. Watson (born 1928), US molecular geneticist, Nobel Prize for discovery of the double helix
56. Alexander S. Wiener (1907–1976), U.S. immunologist, discovered Rh blood groups with Landsteiner
57. Maurice Wilkins (1916–2004), New Zealand-born British Nobel Prize-winner with Watson and Crick
58. Ian Wilmut (born 1944), UK reproductive biologist who first cloned a mammal (lamb named Dolly)
59. Edmund Beecher Wilson (1856–1939), US zoologist, geneticist, discovered XY and XX sex chromosomes
60. Sewall Wright (1889–1988), eminent US geneticist who, with Ronald Fisher, united genetics & evolution
61. Charles Yanofsky (1925–2018), US molecular geneticist, colinearity of gene and its protein product
62. Norton Zinder (1928–2012), US biologist and phage worker who discovered genetic transduction