

1. fend off attacks of invading bacteriophages
 2. cut DNA at specific recognition sequences/sites (GAATTC)
 - a) staggered cuts leaving single stranded sticky ends to form a temporary union with other sticky ends
 3. fragments that result are called restriction fragments
 4. EcoRI (ecoli), BamHI and HindIII are all examples
- E. Gel Electrophoresis —> separates large molecules of DNA on the basis of their rate of movement through an agarose gel
1. smaller the molecule the faster it runs
 - a) smaller the piece of DNA the farther it has traveled from the well
 2. DNA (-) flows from cathode to anode (negative to positive)
 3. used to separate proteins and amino acids
 4. it must be cut by restriction enzymes first to be able to migrate through the gel

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