ACROSS
1 method to slow down development of resistance in insect pest populations with genetically engineered crops
4 assay to detect mutagen
5 enzyme that repairs UV damage to DNA
7 protein that bind to RNA polymerase and promoter
11 radiation that causes free radicals
12 genes that slow down cell division
14 mutation caused by base pair deletion
17 enzyme that cuts DNA into fragments
18 molecule produced by ionizing radiation
20 type of stem cell with potential tissue rejection problem
21 chromosomes with lateral loops of DNA
23 DNA fragment coding for gene
24 type of operon that must be turned on
26 idea that low levels of radiation are beneficial
31 natural insecticide that has been genetically engineered into plants
33 discoverer of transposon
35 protein that increases transcription rate
36 enzyme produced by bacteria to utilize lactose
37 protein that increases natural rate of mutation

DOWN
1 disease caused by Agrobacterium
2 biological method to get gene into cell
3 transcribed region of polytene chromosomes in Drosophila
6 inactive (condensed) chromatin
8 binding site for RNA polymerase
9 point mutation leading to amino acid substitution
10 gene regulatory unit in prokaryotes
12 jumping gene
13 active chromatin
15 point mutation leading to a stop codon substituted for an amino acid
16 undifferentiated cell
17 protein that binds to operator site on operon
19 eukaryotic equivalent of operon
22 type of operon that must be turned off
25 condensed X chromosome
27 agent that increases natural rate of mutation
28 change in sequence or number of nucleotides in DNA
29 small DNA molecule found in prokaryote used in genetic engineering
32 basal promoter