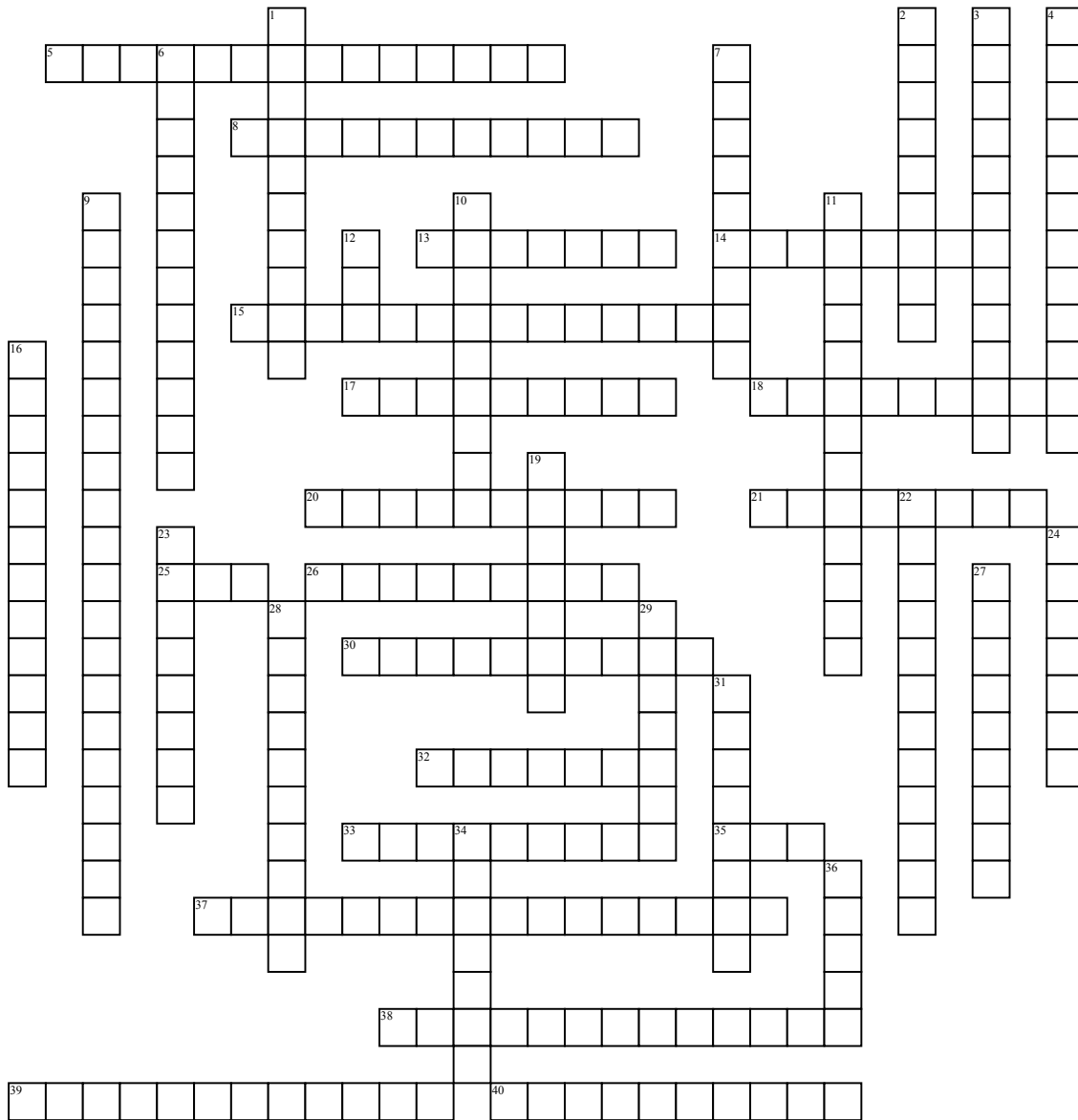


Radiation Protection



Across

5. arbitrary late effects such as cancer
8. rad exposure to these WBC's increases a person chance of infection
13. the building blocks of a cell
14. _____ bonds attach the DNA bases to each other
15. biologic damage from exposure to radiation
17. a dose of 2.5 Gy to the gonads will cause temporary _____
18. once known as interphase death
20. 1 of the many symptoms of manifest illness
21. medical term that defines a collection of symptoms
25. weighting factors are used to calculate
26. "suicide bags"
30. _____ tissue is more radiosensitive than when it is not
32. controls the whole cell and its function
33. form of low LET

Down

1. blood cells are manufactured in
2. granulocytes are a _____ type of white blood cell that fights bacteria
3. dose needed to duplicate spontaneous mutations in populations
4. value of specific cancer occurrences post exposure
6. study of disease in a population
7. evaluation of chromosome damage can be seen during _____ phase of cell division
9. what kind of procedure has significant skin effects caused by ionizing radiation
10. all blood cells develop from a single _____ cell
35. female germ cell
37. can form in mice with doses as low as 0.1Gy
38. dominant or recessive mutations of molecules
39. powerhouse of cell
40. most radiosensitive white blood cell

Across

11. gestational phase 10 days- 12 weeks post conception
12. purines combine with pyrimidines to form _____
16. platelets
19. adenine binds with _____
22. prediction of increase in radiation related cancer in proportion to natural cases of cancer
23. most common radiation related cancer after Hiroshima and Nagasaki atomic bombing
24. shrinkage of organs
27. hair loss
28. most radiosensitive white blood cell
29. 1 parent; 2 daughter cells; half chromosomes
31. French scientist who observed effects of ionizing rad on male germ cells
34. 1 parent; 2 daughter cells
36. when blood vessels and permeable capillaries allow fluid to leak into the _____ it causes an increase in fluid content