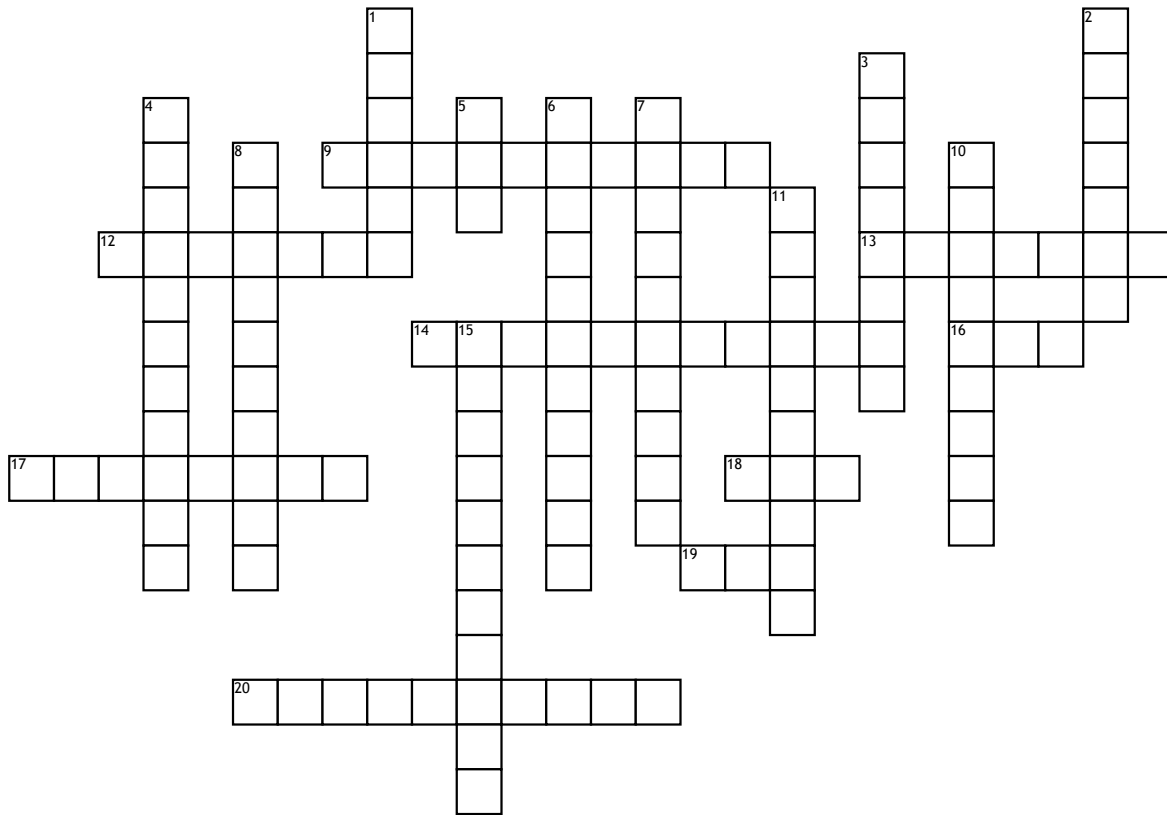


Name: _____

Date: _____

spindle assembly



Across

9. another term for kinetochore

12. SMC protein that help link sister chromatids together

13. plus end directed microtubule motor

14. complex that assembles on chromosomes and facilitates interactions with microtubules

16. A kinesin that is specifically required to make spindles bipolar

17. Scientist who first described the stages of mitosis

18. nucleotide that binds to tubulin

19. mutants that are mitotic arrest deficient

20. microtubule inhibitor

Down

1. minus end directed microtubule motor

2. self-assembling cytoskeletal protein of spindles

3. spindles with a low density of rhodamine-labelled tubulin have these

4. these cellular bodies bind to a wide variety of dyes

5. nucleotide that binds to kinesin

6. movement of chromosomes to the metaphase plate

7. a microtubule organizing center at each spindle pole

8. Regulated step in cell cycle progression

10. SMC protein involved in chromosome compaction

11. after S-phase, chromosomes have two of these

15. dynamic _____ accounts for most microtubule turnover