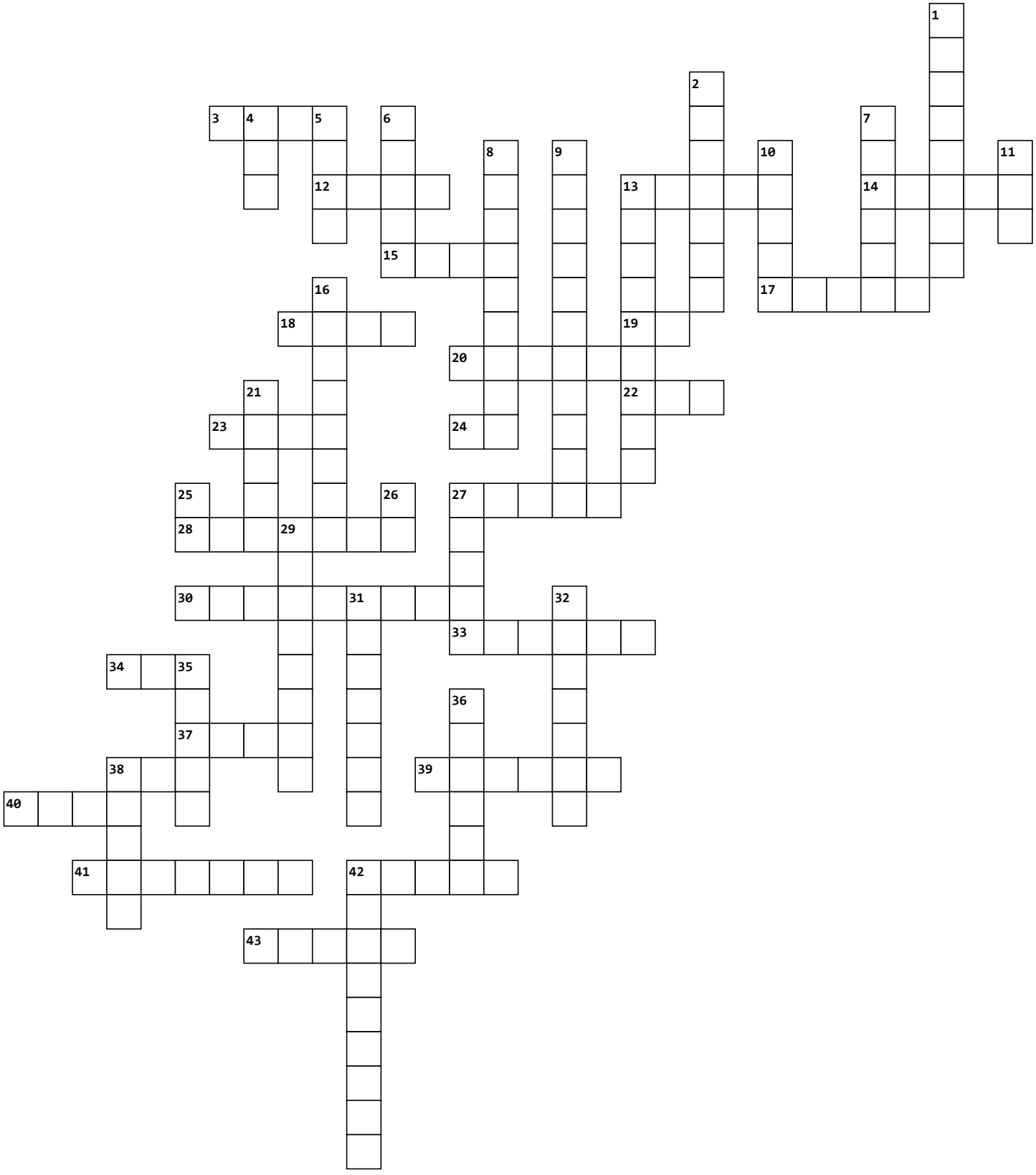
U. of Illinois NMR Training Puzzle



Across

3. 2D-NMR experiment for H-C correlations

12. A property nuclei have

13. The time unit prefix for pulses

14. Type this to get started

15. The senior NMR undergrad hourly

17. Coils used to make the magnetic field uniform

18. 2D-NMR experiment that measures diffusion coefficients

19. The basic frequency unit

20. Protons and their neighbors do this

22. Location of the NMR walk-up lab

23. The axis unit of the FID data

24. Type this to stop an acquisition

27. The probe excites spins with this

28. Maker of one of our NMRs

30. The full name of the Lab

33. The NMR staff also manages this lab

34. Protons do this when excited

37. The NMR boss

38. Raw NMR data

39. Maker of the two newer automated spectrometers

40. Lingyang's crazy cat; see PPT presentation

41. Distinguished former instructor of Chem 530 for 6 years

42. Where Lingyang and Collette are from

43. In the spinner initially

Down

1. Used to keep the magnet pretty cold

2. What spins do when relaxing or exciting

4. Type this to save

5. Location of the biggest magnet in Illinois

6. The name of the previous NMR director here 25 years

7. Used to keep the magnet really cold

8. Where Dean is from

9. Where Nikki is from

10. Location of some special magnets

11. Connector used for most NMR cables

13. The frequency unit for most NMR signals

16. The solid-state NMR specialist

21. NMR Lab Operations Manager

25. The command that means go acquire

26. Use this to transform data from time to frequency

27. Nearly always in the magnet from the bottom

29. The liquids NMR specialist

31. The junior NMR undergrad hourly

32. How spins are in a magnetic field

35. Type these two commands just after you type logon

36. Maker of most of our NMRs

38. Done weekly or monthly for every magnet

42. School of the same distinguished instructor