Cell Word Puzzle #1

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Across

- 2. water fearing
- 6. filaments of a dynamic skeleton
- 8. cell waste dump
- 12. nine fused microtubules at the core of animal centrosome
- 13. everything in the "kitchen sink" except the nucleus
- 14. this stack of thylakoids catches the light
- 15. these mitochondrial folds mean a big surface area where ATP is made
- 16. like Oz's Scarecrow, a procaryote might sing "If I only had a _____"

- 1. lysosome and peroxisome "packaging department"
- 2. water loving
- 3. not just a "bag" but a fluid mosaic gatekeeper
- 4. chemical messenger [hormone]
- 5. the cell membrane contains a _____ bilayer
- 7. common plant cell organelle
- 9. Microtubule Organizing Center
- 10. the "stuff" of chromosomes (DNA + protein)
- 11. cell "soup" [cytosol]
- 14. unlike Kermit, it's not difficult being "this" for chlorophyll

Cell Word Puzzle #2

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Across

| 1 | endon | lacmic | |
|---|-------|-----------|--|
| | | 10511111. | |

- 7. structure in animal cells but not plant cells
- 10. cytoskeletal element assembled at the centrosome
- 12. fluid in chloroplast
- 13. ____ pressure
- 14. organelle containing digesting enzymes
- 15. if not "rough", the ER is _____
- 16. cell power centers

- 1. site of protein synthesis
- 2. structures that distinguish eucaryotic cells
- 3. this "water balloon" can be very large in plant cells
- 4. most prominent structure in a eucaryotic cell
- 5. nuclear _____ : channel between nucleus and cytosol
- 6. a cell's "shape-shifting" machinery
- 8. stackable chloroplast structures
- 9. plant cell structure composed of polysaccharide
- 11. cell membrane equivalent of a "taste bud"

Mitosis Word Puzzle

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Across

| stage when chromos | somes align in one plane | | | |
|---|--------------------------------|--|--|--|
| 9. from one cell, mitosi | s produces two identical cells | | | |
| 11. the protein "handle" on a chromosome | | | | |
| 12. this nuclear structure may be visible during interphase | | | | |
| 13. metaphase | | | | |
| 14. stage when chromosomes begin moving apart | | | | |
| 15 division pred | cedes cytokinesis | | | |
| 16. the nuclear | disappears during prometaphase | | | |

- 1. the actual division into two cells
- 2. stage when spindle fibers attach to chromosomes
- 4. cytoskeletal structure that pulls chromosomes apart
- 5. a cleavage _____ forms at the beginning of cell division
- 6. you won't see chromosomes in this longest stage in the cell cycle
- 7. stage when chromosomes arrive at poles
- 8. spot on a chromosome where the kinetochore forms
- 10. chromosomes condense during _____

Microbiology Word Puzzle

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Across

- 3. a motorized, rotating appendage
- 5. caused by Helicobacter pylori bacteria
- 6. a virus that attacks bacteria (short name)
- 7. period of bacterial die-off
- 9. methicillin resistant Staph aureus acronym
- 10. _____ phase: when bacterial growth stalls
- 12. an early antibiotic that inhibits cell wall synthesis
- 14. antibiotic _____ is a result of overuse and misuse
- 15. period of exponential growth in a bacterial culture
- 16. _____ fission (name for bacterial division)
- 17. requires a host to replicate

- 1. "Beaver Fever" organism
- 2. bacterial "hairs"
- 4. initial slow growth stage of bacteria
- 6. bacterial enzyme that destroys penicillin
- 8. bacterial motility when flagellum rotates clockwise
- 11. site of bacterial DNA
- 13. often slippery, slimy bacterial "overcoat"

Immunology Word Puzzle

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Across

- 2. source of blood clot fibrin
- 4. genetic material in HIV
- 6. white cell important in combatting parasitic diseases
- 11. reverse ____ (conversion of RNA to DNA)
- 12. ____ cells release histamine causing red bumps
- 13. "eating cell"
- 14. oxidative _____

- 1. genetic material in T-4 bacteriophage
- 3. a cytotoxic T-____ can kill tumor cells
- 4. HIV attaches to _____ on lymphocytes
- 5. programmed cell death
- 7. cell movement toward microbes
- 8. white cells exit blood vessels by _____
- 9. ____ cells secrete antibody
- 10. mite