

# Bio 112 Handout for Themes 4

This handout contains:

- Today's iClicker Questions
- Figures for today's lecture

## iClicker Question #10A - before lecture

Which of the following is(are) true?

- A. All organisms reproduce using eggs and sperm.
- B. All diploid organisms reproduce using eggs and sperm.
- C. Some eukaryotic organisms can live as haploids.
- D. All of the above.
- E. None of the above.

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## iClicker Question #10B - after lecture

Which of the following is(are) true about sexual reproduction in eukaryotes?

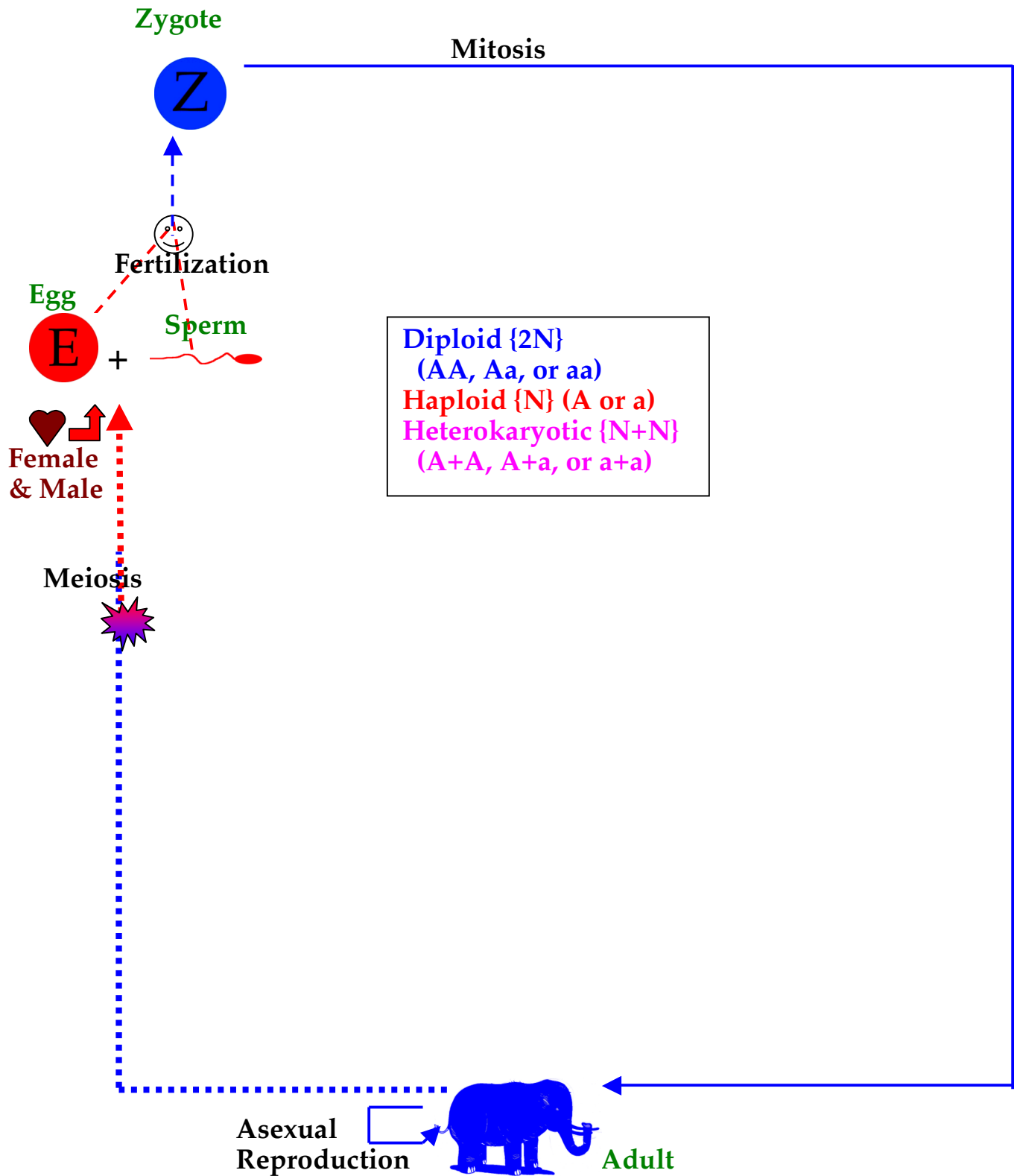
- A. it always involves eggs and sperm.
- B. it always involves meiosis.
- C. it always involves formation of a heterokaryon.
- D. All of the above.
- E. None of the above.

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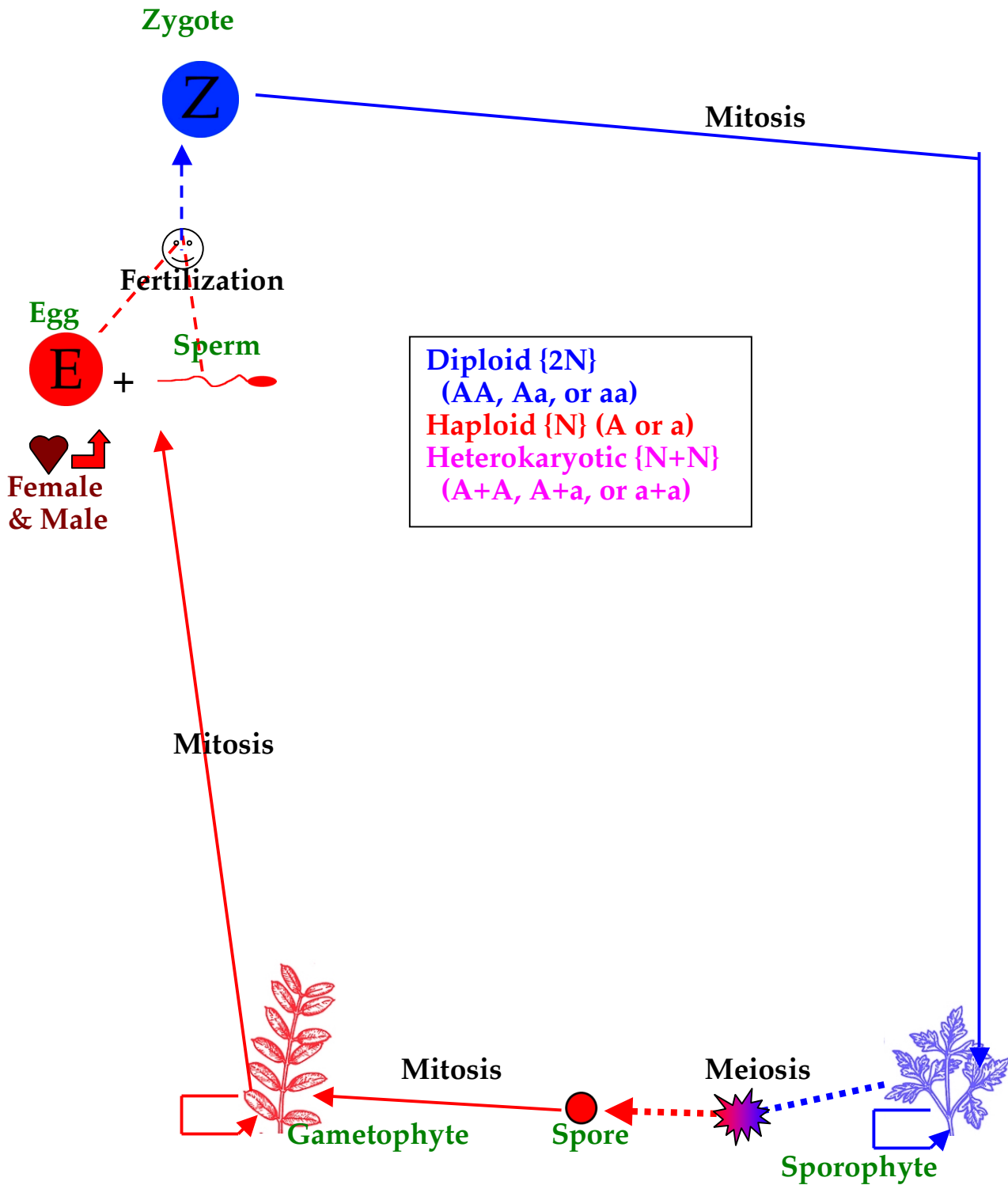
### **Beaming in your answers**

1. Figure out your answer and select the appropriate letter (A-E).
2. Turn on your iClicker by pressing the "ON/OFF" button; the blue "POWER" light should come on. If the red "LOW BATTERY" light comes on, you should replace your batteries soon.
3. Transmit your answer as follows:
  - a. Press the button corresponding to the answer you've selected (A thru E).
  - b. The "STATUS" light will flash green to indicate that your answer has been received. If the "STATUS" light flashed red, your answer was not received; you should re-send it until you get a green "STATUS" light.

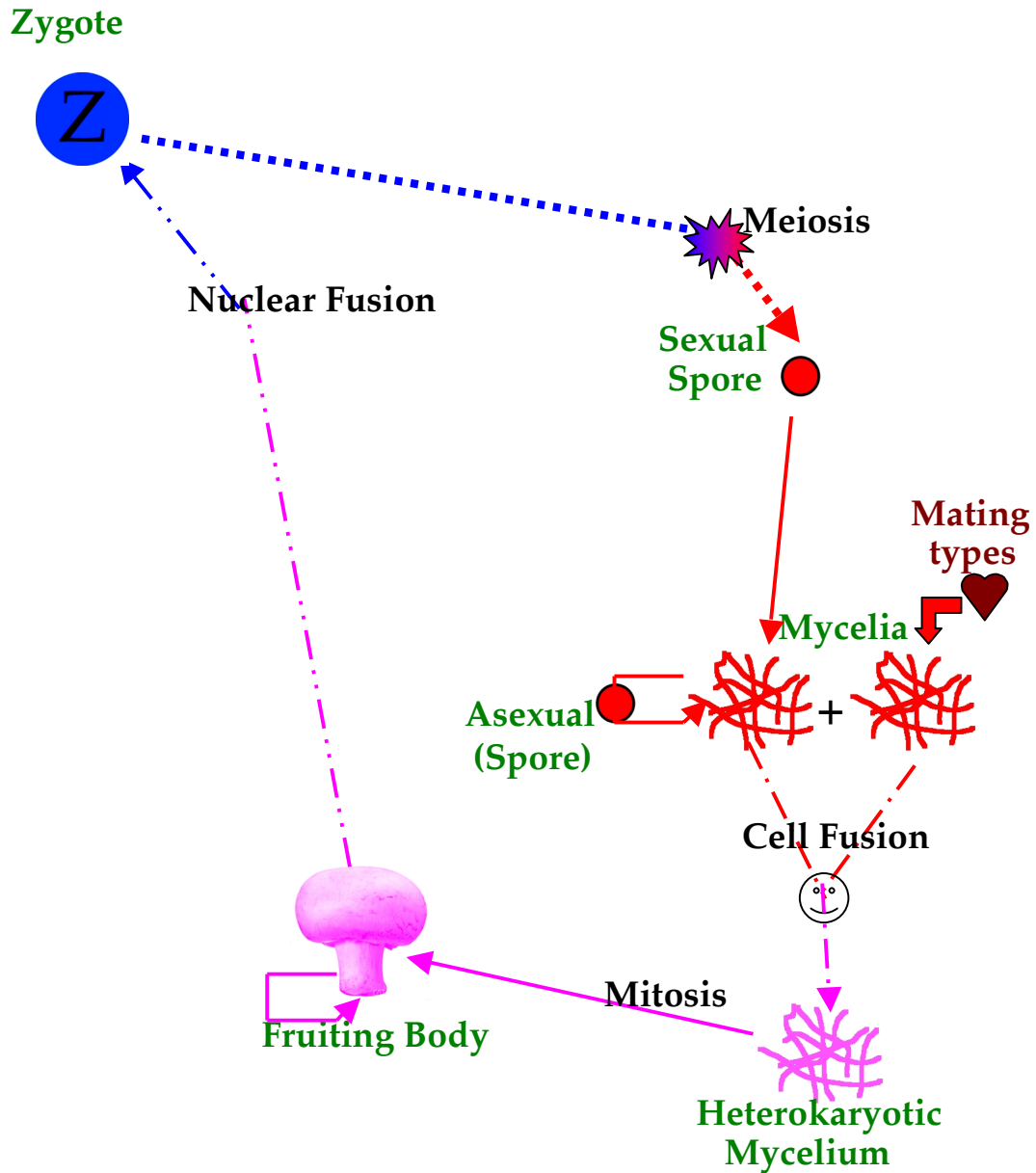
# Animal Life Cycle



# Plant Life Cycle

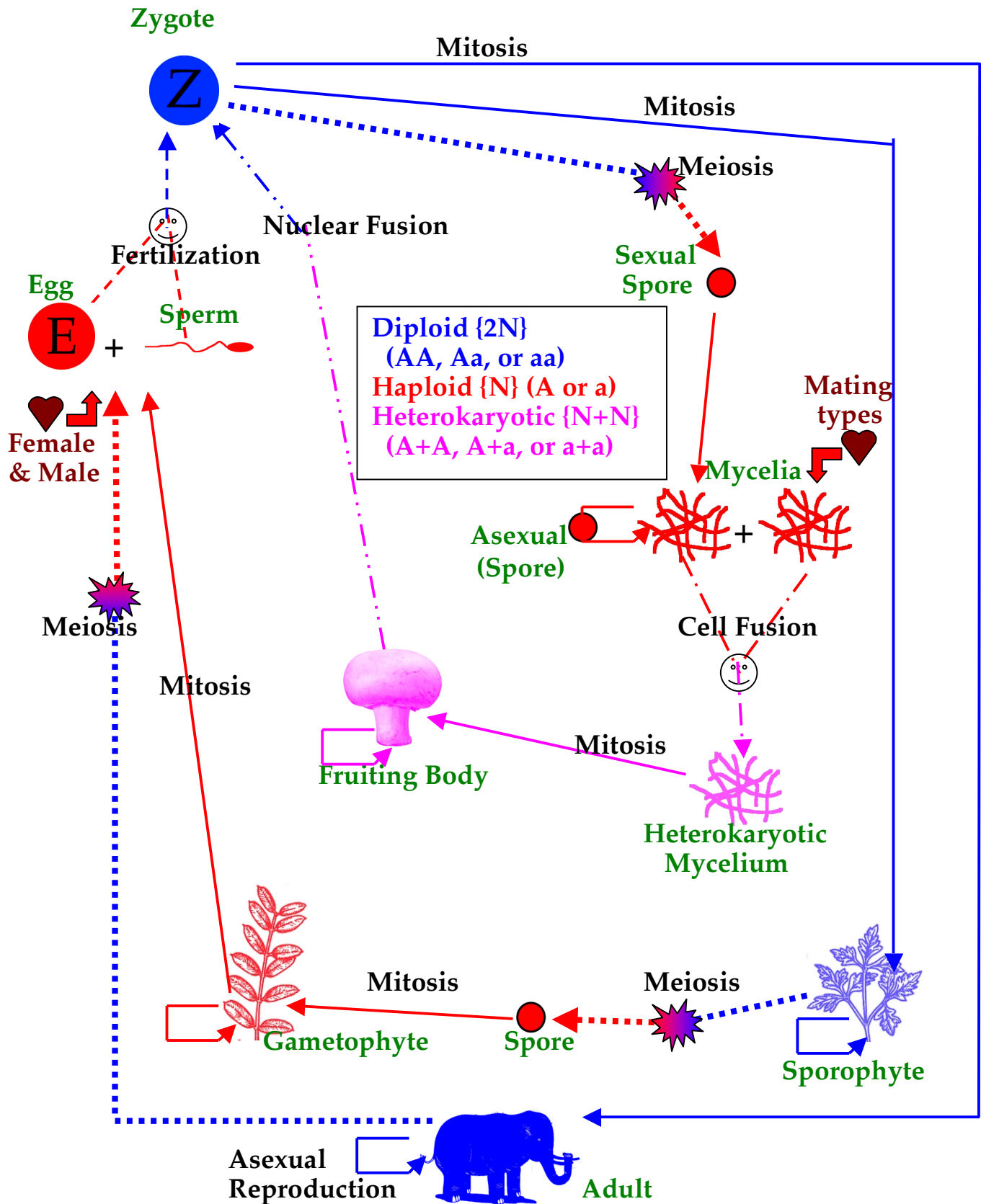


# Fungal Life Cycle



**Diploid {2N}**  
 (AA, Aa, or aa)  
**Haploid {N} (A or a)**  
**Heterokaryotic {N+N}**  
 (A+A, A+a, or a+a)

# Life Cycles Combined



Themes 4 - 5

Themes 4 - 6

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