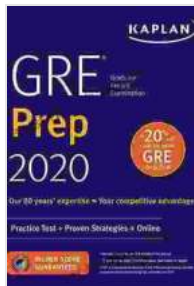


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Language	: English
File size	: 26898 KB
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Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 568 pages



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MCAT QUESTION

Biology

During division of a mammalian cell, spindle formation will NOT occur unless there is proper functioning of the:

- A. centrioles.
- B. centromeres.
- C. cristae.
- D. lysosomes.

Answer: A

Centrioles produce the microtubules that are essential for the spindle fibers to attach to the centromeres



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Figure 1 T-lymphocyte activation as measured by percent of CD4⁺-positive cells after 7 and 12 hours of coculture (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$)

Next, researchers aimed to assess the effect of FAC co-culture on eosinophil degranulation. After 7 and 12 hours of co-culture, samples were centrifuged at 1500 rpm, and ECP levels were measured in the supernatants (Figure 2). No ECP was detected in supernatant culture of FAC cells alone.

Question 18

Which of the statements below is supported by the experimental results, as shown in Figures 1 and 2?

- A. The inclusion of ECP co-cultures with FAC cells directly and linearly correlates to the amount of ECP found in the supernatant after centrifugation.
- B. Cells cultured with a 1:1 FAC-to-ECP ratio display significantly smaller levels of activation to cells cultured with a 1:5 FAC-to-ECP ratio, as measured by CD4⁺ expression.
- C. All co-culture stimulates ECP activation while inhibiting degranulation.
- D. Co-culture with FAC cells significantly increased ECP degranulation in all groups, as compared to ECP cells cultured alone.

MCAT Practice Tests Review Scores

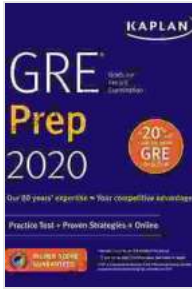


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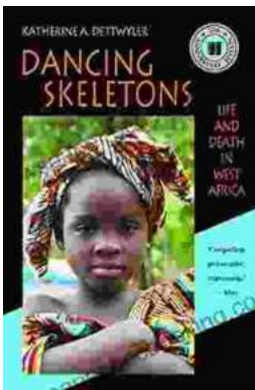
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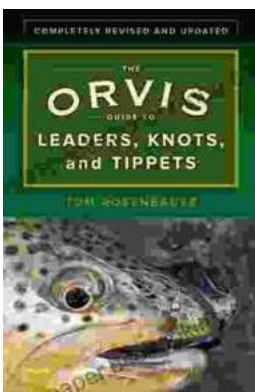


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