

# Aumento de la incorporación de ácido araquidónico en fosfolípidos en macrófagos peritoneales de ratón estimulados con zimosán

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Se ha demostrado que el zimosán, una partícula que puede ser fagocitada, estimula la liberación de ácido araquidónico (AA) en los macrófagos a través de un mecanismo mediado por la fosfolipasa A<sub>2</sub> y promueve la incorporación de este ácido graso a los fosfolípidos celulares. Este trabajo se realizó para tratar de comprender mejor la regulación y la relación entre estos dos procesos durante la activación celular. Los estudios iniciales se llevaron a cabo para examinar la incorporación de [<sup>3</sup>H]AA exógeno en las diferentes clases de fosfolípidos. La fosfatidilcolina y el fosfatidilinositol inicialmente incorporaron la mayor parte de la radiactividad capturada por las células. La incubación prolongada resultó en una disminución de la radiactividad en la fosfatidilcolina con un aumento concomitante de la fosfatidiletanolamina. La estimulación de las células con zimosán condujo a un aumento notable de la respuesta sin cambiar el patrón de acilación de fosfolípidos por AA. En la siguiente serie de experimentos, se investigaron comparativamente las características reguladoras tanto de la liberación de AA como de la acilación de fosfolípidos por AA en células tratadas con zimosán. La liberación de [<sup>3</sup>H]AA estimulada por zimosán de células previamente marcadas se redujo notablemente cuando el calcio estaba ausente del medio de incubación y también cuando las células fueron tratadas con toxina pertussis. El tratamiento celular con toxina del cólera promovió una potenciación de la respuesta. En contraste, ninguno de estos tratamientos tuvo efectos apreciables en la incorporación de [<sup>3</sup>H]AA estimulada por zimosán en los fosfolípidos. En conjunto, estos datos sugieren que la liberación de AA estimulada por zimosán y la acilación de fosfolípidos por AA, aunque están estrechamente relacionadas, son eventos regulados independientemente.

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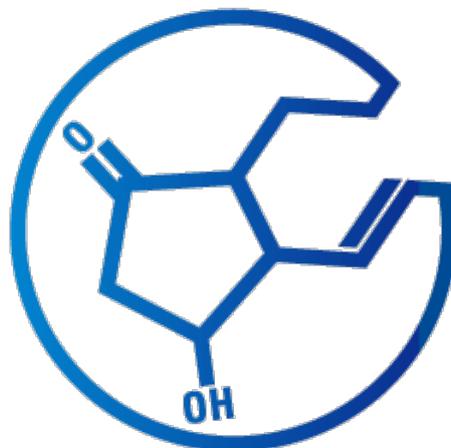
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