

Mail Stop 4720

September 4, 2009

Christopher Anzalone  
Chief Executive Officer  
Arrowhead Research Corporation  
201 South Lake Avenue, Suite 703  
Pasadena, CA 91101

**Re: Arrowhead Research Corporation  
Schedule 14A  
Filed August 18, 2009  
File No. 000-21898**

Dear Mr. Anzalone:

We have completed our review of your preliminary proxy statement on Schedule 14A and have no further comments at this time.

Sincerely,

Jeffrey P. Riedler  
Assistant Director

cc: Ryan Murr  
Rachael Simonoff Wexler  
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