



DIVISION OF  
CORPORATION FINANCE

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

October 27, 2010

Dr. Paul J. Maddon, M.D., Ph.D.  
Chief Executive Officer  
Progenics Pharmaceuticals, Inc.  
777 Old Saw Mill River Road  
Tarrytown, New York 10591

**Re: Progenics Pharmaceuticals, Inc.**  
**Form 10-K for the fiscal year ended December 31, 2009**  
**Filed March 15, 2010**  
**File No. 000-23143**

Dear Dr. Maddon:

We have completed our review of your form 10-K and related filings and have no further comments at this time.

Sincerely,

Jeffrey Riedler  
Assistant Director

cc: Donald J. Murray, Esq.  
Dewey & LeBoeuf LLP  
1301 Avenue of the Americas  
New York, New York 10019-6092