

ATOSSA GENETICS INC.
4105 E. MADISON ST., SUITE 320
SEATTLE, WA 98112
April 22, 2013

Via EDGAR Transmission

U.S. Securities and Exchange Commission
Division of Corporate Finance
100 F Street, N.E.
Mail Stop 6010
Washington, D.C. 20549
Attn: Jay Mumford

**Re: Atossa Genetics Inc.
File No. 333-186248**

Dear Mr. Mumford:

On behalf of Atossa Genetics Inc. (the "Company"), we hereby respectfully request that the Securities and Exchange Commission (the "Commission") take appropriate action to make the Company's Registration Statement on Form S-1 effective on April 23, 2013 at 12:00 p.m. (Eastern time) or as soon thereafter as practicable, or at such later time as the Company may request by telephone to the Commission. In connection with the above-captioned Registration Statement, the Company acknowledges that:

- should the Commission or the staff, acting pursuant to delegated authority, declare the filing effective, it does not foreclose the Commission from taking any action with respect to the filing;
- the action of the Commission or the staff, acting pursuant to delegated authority, in declaring the filing effective, does not relieve the Company from its full responsibility for the adequacy and accuracy of the disclosure in the filing; and
- the Company may not assert staff comments and the declaration of effectiveness as a defense in any proceedings initiated by the Commission or any person under the federal securities laws of the United States.

Please direct any questions regarding this filing to the undersigned at 800 351-3902.

Sincerely,

/s/ Kyle Guse

Kyle Guse

Chief Financial Officer, General Counsel and Secretary

cc: Steven C. Quay, Atossa Genetics Inc.
Ryan A. Murr, Ropes & Gray LLP
Lisa M. Kahle, Ropes & Gray LLP