

**BIOSPECIFICS TECHNOLOGIES CORP.
ANNUAL MEETING OF STOCKHOLDERS
TO BE HELD ON JUNE 17, 2009**

This Proxy is Solicited on Behalf of the Board of Directors

The undersigned stockholder of BioSpecifics Technologies Corp., a Delaware corporation (the "Company"), acknowledges receipt of the Notice of Annual Meeting of Stockholders and Proxy Statement, dated April 30, 2009, and hereby constitutes and appoints Thomas L. Wegman and Carl A. Valenstein, or either of them acting singly in the absence of the other, with full power of substitution in either of them, the proxies of the undersigned to vote with the same force and effect as the undersigned all shares of the Company's Common Stock which the undersigned is entitled to vote at the 2009 Annual Meeting of Stockholders to be held on June 17, 2009, and at any adjournment or adjournments thereof, hereby revoking any proxy or proxies heretofore given and ratifying and confirming all that said proxies may do or cause to be done by virtue thereof with respect to the following matters:

The undersigned hereby instructs said proxies or their substitutes:

1. Elect as Directors the nominees listed below:

Thomas L. Wegman – First Class – Term expires at 2012 Annual Stockholders Meeting

Dr. Paul Gitman – First Class – Term expires at 2012 Annual Stockholders Meeting

Dr. Matthew Geller – First Class – Term expires at 2012 Annual Stockholders Meeting

Withhold authority for the following:

- Thomas L. Wegman
 Dr. Paul Gitman
 Dr. Matthew Geller

2. Approve the Amended and Restated BioSpecifics Technologies Corp. 2001 Stock Option Plan to increase the number of shares of Company common stock authorized for issuance from 1,750,000 to 2,050,000 shares.

FOR **AGAINST** **ABSTAIN**

3. In their discretion, the proxies are authorized to vote upon such other business as may properly come before the 2009 Annual Meeting, and any adjournment or adjournments thereof.

THIS PROXY, WHEN PROPERLY EXECUTED, WILL BE VOTED IN THE MANNER DIRECTED; IF NO DIRECTION IS MADE, THIS PROXY WILL BE VOTED FOR ALL NOMINEES AND FOR THE APPROVAL OF THE AMENDED AND RESTATED BIOSPECIFICS TECHNOLOGIES CORP. 2001 STOCK OPTION PLAN. IN THEIR DIRECTION, THE PROXIES ARE ALSO AUTHORIZED TO VOTE UPON SUCH OTHER MATTERS AS MAY PROPERLY COME BEFORE THE MEETING, INCLUDING THE ELECTION OF ANY PERSON TO THE BOARD OF DIRECTORS WHERE A NOMINEE NAMED IN THE PROXY STATEMENT DATED APRIL 30, 2009 IS UNABLE TO SERVE OR, FOR GOOD CAUSE, WILL NOT SERVE.

I (we) acknowledge receipt of the Notice of 2009 Annual Meeting of Stockholders and the Proxy Statement dated April 30, 2009, and the 2008 Annual Report to Stockholders and ratify all that the proxies, or either of them, or their substitutes may lawfully do or cause to be done by virtue hereof and revoke all former proxies.

Please sign, date and mail this proxy immediately in the enclosed envelope.

Name _____

Name *(if joint)*

Date _____, 2009

Please sign your name exactly as it appears hereon. When signing as attorney, executor, administrator, trustee or guardian, please give your full title as it appears hereon. When signing as joint tenants, all parties in the joint tenancy must sign. When a proxy is given by a corporation, it should be signed by an authorized officer and the corporate seal affixed. No postage is required if returned in the enclosed envelope.

Important Notice Regarding Internet Availability of Proxy Materials for the Annual Meeting:

The Notice, Proxy Statement, Proxy Card and our 2008 Annual Report on Form 10-K are available at http://otccorporatetransferservice.com/proxy_docs.