Dr. Robert U. Newton
Ball State University
Muncie IN 47306
Email: rnewton@bsu.edu
Telephone: Int + 1 765 285 5139
Facsimile: Int + 1 765 285 4084
Website: http://www.bsu.edu/web/rnewton

BALL STATE UNIVERSITY

May 31, 2002

Mr. Phillip Gilliam, President
Antibody, Inc.
P.O. Box 369
Cheltenham, Maryland 20623

Re: Antibody Situational Support Devices

Dear Mr. Gilliam,

As you know the Biomechanics Laboratory at Ball State University has completed several research studies of your products. Please accept this letter as a summary of what we know to be scientifically proven.

1) Wearing the custom-fit compression garment **improves warm-up** in terms of skin temperature attained and maintenance of skin temperature. This most likely translates into improved performance and reduced risk of injury.

2) We have proven unequivocally that wearing the garment **increases vertical jump height**. This effect is most likely due to improved proprioception, storage and recovery of elastic energy in the garment, and the effects of compression on muscle function.

3) Muscle oscillation on landing from a jump is **considerably reduced** and this may have benefit in terms of reduced tissue injury and enhanced performance with repeat jumps.

4) The tight fit and elastic nature of the Antibody garment results in a **considerable torque being generated about the hip joint** at the flexion and extension ranges of motion encountered during sprinting. This may have a performance enhancement and injury-reduction role by assisting the muscles in generating torque. In particular, this may **assist the hamstrings** in limiting hip flexion at the end of the swing phase, a time that is particularly risky for hamstring injuries. Further, because of the support provided about the hip the garment has the potential to **reduce groin strains**.

5) Finally, the material used in the custom-fit compression garment is capable of **attenuating impact forces** and this will have benefit when worn during contact sports.

I personally am very excited about the potential of your products for performance enhancement and injury reduction. I look forward to our next set of experiments during which we will further elucidate the benefits of the Antibody Situational Support Devices.

Sincerely,

Robert U. Newton Ph.D.
Director, Biomechanics Laboratory