

ARE YOUR STUDENTS SUFFERING FROM A **TICK-BORNE DISEASE?**



Anxiety, headaches, fatigue, joint pain and difficulty concentrating are just a few of the symptoms of tick-borne diseases.

Lyme disease, the nation's most prevalent tick-borne illness, affects nearly 500,000 people every year and is present in all 50 states.

If your students are experiencing any symptoms related to a tick-borne illness, consider having them tested with IGeneX.

SUMMER FUN CAN TURN SERIOUS

Hiking, camping, and outdoor sports are among the many activities students enjoy during Summer. But these fun activities can turn dangerous thanks to the presence of ticks. Ticks are small creatures--about the size of a poppy seed--and hard to see. They can transmit disease to humans within minutes of contact. Students are urged to be vigilant at all times, and take precautions to avoid direct contact with ticks in fields, forests, beaches and yards across the country.



TICK. TICK. TICK.

There are roughly 850 species of ticks. One bite can make you sick, even change your life. Taking protective measures is important to prevent a tick bite. Wearing protective clothing and scanning your body for ticks are all great actions for preventing tick bites. Fortunately, the best way to prevent bites remains the same: Know your ticks and how to avoid them.

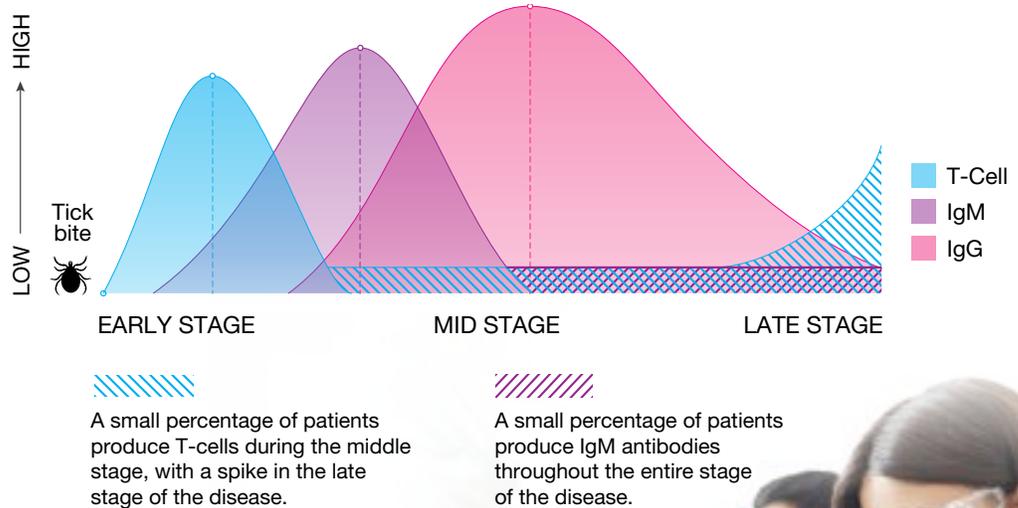


TICK-BORNE DISEASE TESTING 101

A tick-borne disease is caused when a tick transmits a pathogen, such as *Borrelia* (Lyme disease) or *Babesia* (Babesiosis), into the bloodstream of a human. In some cases a rash develops at the site of the bite, and soon thereafter symptoms occur as the immune system mounts a response to fight off the disease. Labs use a combination of direct testing and indirect testing to diagnose a tick-borne disease. Direct testing looks for the pathogen in blood or urine, and indirect testing measures the immune response.

T-CELL AND ANTIBODY RESPONSE

Early after infection is when T-cell response is highest, making antigen tests, such as **IgXSpot** and **PCR** the most effective. IgM and IgG antibodies develop soon thereafter, at which time the **ImmunoBlot** and **IFA** tests become most effective. T-cells also re-appear in the late stage of the disease.



JOIN THE IGENEX STUDENT EXCELLENCE TESTING PROGRAM

For over 30 years, IGeneX has been at the forefront of diagnostic testing for Lyme disease and other tick-borne illnesses. IGeneX has helped accurately diagnose thousands of patients, providing vital information to help them get healthy. Now, we are proud to offer a special testing program for colleges and universities. The program consists of discounted tests and panels that are geared toward students. Contact us today at students@igenex.com to get started.



NO OTHER LAB CAN DO WHAT IGENEX CAN DO

	IGeneX	Domestic Labs	International Labs
cePCR (Culture-Enhanced PCR) testing for Lyme disease, TBRF, Bartonella, Babesia, Rickettsia, Ehrlichia and Anaplasma*	✓	✗	✗
Lyme Multi-Species ImmunoBlots that detect the Lyme Borreliae genus and speciate to <i>B. burgdorferi</i> B31, <i>B. burgdorferi</i> 297, <i>B. californiensis</i> , <i>B. mayonii</i> , <i>B. afzelii</i> , <i>B. garinii</i> , <i>B. spielmanii</i> , <i>B. bissettii</i> and <i>B. valaisiana</i>	✓	✗	✗
TBRF Multi-Species ImmunoBlots that detect the TBRF <i>Borreliae</i> genus and speciate to <i>B. hermsii</i> , <i>B. miyamotoi</i> and <i>B. turicatae</i>	✓	✗	✗
Bartonella Multi-Species ImmunoBlots that detect the Bartonella genus and speciate to <i>B. henselae</i> , <i>B. quintana</i> , <i>B. elizabethae</i> and <i>B. vinsonii</i> *	✓	✗	✗
Babesia Multi-Species ImmunoBlots that detect the Babesia genus and speciate to <i>B. microti</i> and <i>B. duncani</i> *	✓	✗	✗
Babesia FISH (Fluorescence in situ hybridization)	✓	✗	✗
Broad Coverage Assays for Lyme and TBRF that detect early (IgM) and late (IgG) stage infection	✓	✗	✗
Bartonella FISH and Bartonella IgXSpot T-Cell test*	✓	✗	✗

* Not available in New York

CONTACT IGENEX TODAY TO LEARN MORE ABOUT TESTING FOR STUDENTS
 556 Gibraltar Dr. Milpitas, CA 95035 | igenex.com | students@igenex.com | 1-800-832-3200

