

Research Interests

David Weiner Ph.D.

Dr. Weiner is developing vaccine approaches to treatment of viral-associated cancers and infectious agents by using specific DNA vaccines expressing specific viral antigens. They explore novel methods for the generation of antiviral immune responses, and have developed a multi-cassette system to induce immune responses to viral infections. Some viral antigen responses appear protective in animal challenge systems and can result in long lived memory B and T cell immune responses. The importance of these results to the production of genetic immune therapeutics and vaccine development will be investigated. Phase IIb Clinical Trials of the HPV E6/E7 therapeutic vaccine was successfully completed and is approved for the next level with a phase III trial. He is continually improving the DNA vaccine with new adjuvants and testing new antigens for immunological responses with growing success.

Interactions with other trainers: Dr. Weiner is a highly interactive member of this program. He frequently attends all student and post-doc seminar presentations and critiques their work. He has a long term interest in developing vectors that are long lived and is interacting with Drs. Robertson, You and Lieberman using EBV and KSHV derived vectors for DNA vaccine development.