Immunotherapy: 
Using The Body To Fight Cancer

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Abstract
There have been enormous advances made in the last few years in our ability to harness the immune system to fight cancer. Dr. Paterson will provide an overview of the history of cancer immunotherapy and current advances in the field, comparing and contrasting different approaches. She will cover antibody based therapies, cellular immunotherapies and cancer vaccines. Included in these therapies is the cancer vaccine developed in her own laboratory, and in the biotech company she founded, Advaxis Immunotherapeutics, Inc., which harnesses the unusual ability of the facultative intracellular bacterium, *Listeria monocytogenes*, to induce potent cellular immune responses. Dr. Paterson has pioneered the application of this organism in vaccine development over the past 25 years. She has shown that recombinant forms of this organism, which have been transformed to express tumor antigens, are excellent vectors that can eliminate established macroscopic tumors even in the face of profound immune tolerance to the tumor-associated antigen. This approach is in clinical development, has completed phase I and II trials with promising results, and is now in a phase III trial for cervical cancer and several phase I and II trials for other cancers.

Selected Relevant Publications for Reference


