This is an auspicious time for the AACR to launch Cancer Immunology Research, a new journal devoted to cancer immunology and immunotherapy. Recent clinical investigations have convincingly established that the immune system can be triggered to accomplish meaningful tumor destruction. The administration of blocking monoclonal antibodies against the negative immune checkpoints, cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) and programmed death-1 (PD-1), elicits remarkable antitumor effects in some patients with otherwise refractory disease. Moreover, cancer vaccines, adoptive therapy with engineered T cells, and other immunomodulatory antibodies are similarly showing promising antitumor activity. Collectively, these exciting results indicate that immunologic manipulations are likely to become a central component of cancer treatment.

In parallel to these advances in therapeutics, substantive progress in elucidating the mechanisms involved in endogenous host antitumor responses has delineated a key role for immunity in cancer pathogenesis. The principles of immunediting have now been revealed not only in models typically used by cancer immunologists, but also in genetically engineered oncogene-driven systems that are a mainstay of investigations in cancer biology. In addition, the pivotal contribution of persistent inflammation to promoting tumor initiation and progression has now been broadly recognized, highlighting the dual roles of immunity in tumor development.

Notwithstanding these important examples of how immunology is entering the mainstream of cancer science, many cancer researchers have difficulty accessing the discipline and recognizing opportunities for productive new research directions. There are many factors that contribute to this perception of a high barrier to entry. Among the hurdles that need to be overcome are: (i) a lack of clarity regarding the logic of how immune responses work; (ii) the large number of soluble factors, surface molecules, and cell populations in the immune system that seem to be steadily increasing; (iii) a limited background in the relevant history and current literature of the field; (iv) a lack of familiarity with many immunologic techniques; (v) and uncertainty regarding how to prioritize particular areas of host–tumor cell interactions for more detailed exploration.

Cancer Immunology Research will address this important challenge through playing a leading role in educating the greater cancer research community regarding the principles and opportunities in cancer immunology. A major benefit of this investment will be to catalyze cross-disciplinary investigations, which might dramatically accelerate progress toward a deeper understanding of the host–tumor relationship, more potent therapeutics, and improved clinical outcomes. Indeed, cancer immunology is currently reaping the benefits of basic and translational studies in allied disciplines of immunology, such as autoimmunity, infectious disease, transplantation, and immunodeficiency; insights from these fields are now regularly being applied to the problems of tumor immunity.

To accomplish this educational mission, Cancer Immunology Research has developed several special features. The first is "Masters of Immunology," a series of primers on the fundamentals of immunology, particularly as they relate to cancer. These short pieces will be drafted by leading scholars who will present basic immunologic concepts in an accessible format that includes informative graphics. A broad spectrum of topics will be covered in the fullness of time, and the cycle will be repeated (in several iterations), allowing individual areas to be presented in increasingly greater detail and with a richer perspective on how a particular subject fits into the overall schema of tumor immunity. These primers will be organized into a virtual cancer immunology textbook on the journal website. Continuing medical education credits will also be offered for studying these primers, which should be of practical

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interest to clinicians who desire a deeper knowledge of immunology. For this inaugural issue, Hidde Ploegh has drafted an illuminating and eloquent introductory essay entitled “The Logic of the Immune System.” This piece will serve as an enticing entry point to the mysteries and intricacies of immunity.

To complement these primers, Cancer Immunology Research will present “Cancer Immunology at the Crossroads,” a series that will be devoted to exploring compelling opportunities for cross-disciplinary research. Prominent investigators will outline in short pieces specific areas where cancer immunology overlaps with other cancer research disciplines and suggest a few possibilities for fruitful collaboration. These features will highlight intersections not only with allied basic sciences such as genetics, cancer biology, metabolism, pathology, engineering, imaging, infectious disease, and population studies, but also areas relevant to translational and clinical development paths. Among these subjects will be potential synergies with targeted therapy, radiation treatment, cytotoxics, and antiangiogenic approaches; clinical trial design considerations; opportunities for new technologies; regulatory issues; immune-related patterns of tumor response; and specific clinical settings in which immunotherapy might be effectively employed. To kickoff this inspiring series, Nir Hacohen, Edward F. Fritsch, Todd A. Carter, Eric S. Lander, and Catherine J. Wu outline an intriguing approach to personalized cancer vaccinations based on next generation sequencing of individual patient tumors. The initiation of clinical testing is eagerly anticipated.

To round out the didactic components, Cancer Immunology Research will also include reviews of rapidly developing areas in the discipline. These pieces will probe more deeply into topics of central importance to the field and should be of great interest to both specialists and newcomers. For the inaugural issue, Bridget Keenan, Elizabeth Jaffee, and Todd Armstrong have crafted a compelling summary of the recent special AACR conference entitled “Tumor Immunology: Multidisciplinary Science Driving Basic and Clinical Advances.” This article offers an exemplary analysis of immune-related patterns of tumor response; and specific clinical settings in which immunotherapy might be effectively employed. To kick off this inspiring series, Nir Hacohen, Edward F. Fritsch, Todd A. Carter, Eric S. Lander, and Catherine J. Wu outline an intriguing approach to personalized cancer vaccinations based on next generation sequencing of individual patient tumors. The initiation of clinical testing is eagerly anticipated.

To advance the dual mission of Cancer Immunology Research in fostering education and original investigation, Elizabeth Jaffee, Stanley Riddell, and Robert Vonderheide will serve as Deputy Editors. Each is a consummate physician-scientist who has successfully developed a novel therapeutic strategy from preclinical proof-of-concept experiments through early phases of testing in patients with cancer. This rare experience coupled with a broad knowledge of the entire discipline positions the Deputy Editors as the ideal team to oversee the didactic components of the journal. Their efforts should ensure the dissemination of knowledge of cancer immunology to the larger cancer research community, thereby stimulating new investigators to enter the field.

Nineteen distinguished scientists and physicians from around the globe will serve as the Senior Editors for Cancer Immunology Research. Their collective knowledge spans all of the major areas of cancer immunology and immunotherapy. The Senior Editors will oversee reviews of the original articles,
assuring that they are conducted rigorously and timely; the journal will maintain the highest levels of scholarship and intellectual rigor. A vibrant and accomplished Editorial Board will assist the Senior Editors in evaluating submitted manuscripts. The broad participation of the cancer immunology community on the Editorial Board will assure that the journal helps generate new insights into the complex interplay between cancer and the immune system and accelerates the crafting of clinically efficacious immunotherapies.

The creation of Cancer Immunology Research reflects the many efforts of the skilled publications team at AACR, particularly Kelly Hadsell, Art Buchberg, and Diane Scott-Lichter. Connie Gee also provided invaluable assistance in launching the journal. A special thanks to Drs. Margaret Foti and Michael Caligiuri for their vision and wisdom. We hope that all of the efforts on behalf of Cancer Immunology Research will ensure that immunology, metaphorically and tangibly, assumes a prominent position within the heart of cancer research.

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A Message from the Founding Editor-in-Chief
Glenn Dranoff

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