

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

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|---|--|---------|----------------------|
| NAME Hanlon, Douglas John | POSITION TITLE Associate Research Scientist | | |
| eRA COMMONS USER NAME | | | |
| EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i> | | | |
| INSTITUTION AND LOCATION | DEGREE <i>(if applicable)</i> | YEAR(s) | FIELD OF STUDY |
| LeMoyne College, Syracuse, NY | B.S. | 1987 | Biology |
| SUNY Health Science Center, Syracuse, NY | Ph.D. | 1992 | Cell and Mol Biology |

A. Positions and Honors.**Positions and Employment**

- 9/87-5/92 SUNY Health Science Center at Syracuse, New York, Graduate Teaching Assistant and Doctoral Candidate, Department of Anatomy and Cell Biology
- 5/92-5/95 Yale University School of Medicine, New Haven, CT - Postdoctoral Associate, Section of Neuropathology
- 7/95-7/98 Yale University School of Medicine, New Haven, CT - Postdoctoral Associate, Department of Dermatology/Section of Immunobiology
- 7/98-present Yale University School of Medicine, New Haven, CT - Associate Research Scientist, Department of Dermatology

Awards and Honors

- 1982-86 Clifford Furnas Scholar of Biology-full academic scholarship from Clifford Furnas Foundation, Buffalo, NY
- 1988-89 Outstanding Research: doctoral candidate - SUNY Health Science Center A.A.R.S. Competition
- 1996 Department of Dermatology Training Grant - funding for collaborative training in Yale's Dermatology Department and Howard Hughes Medical Institute's Section of Immunobiology
- 1997 Yale Skin Disease Research Center-Collaborative Research Awards - Pilot project coauthored with Dr. Peter Cresswell
- 1999 Yale Skin Disease Research Center Core Grant - 1999 Pilot Feasibility Project #25 - Coauthored with Dr. Richard Edelson
- 1999-2001 Dermatology Foundation Career Development Award

B. Selected peer-reviewed publications (in chronological order).

- Berger CL, Dong Z, Hanlon DJ and Edelson R. A lymphocyte cell surface heat shock protein homologous to the endoplasmic reticulum chaperone "BIP." *Int J Cancer* **71**: 1077-85 (1997).
- Halaban R, Cheng E, Hanlon D, Zhang Y, Hebert D. Aberrant retention of tyrosinase in the endoplasmic reticulum mediates accelerated degradation of the enzyme and contributes to the dedifferentiated phenotype of amelanotic melanoma cells. *P.N.A.S. USA* **94**: 6210-15 (1997).
- Hanlon D, Berger C, Edelson RL. Photoactivated 8-Methoxypsoralen treatment causes a peptide-dependant increase in antigen display by transformed lymphocyte. *Int J Cancer* **78**: 70-75 (1998).
- Berger, CL, Xu A-L, Hanlon D, Lee C, Schechner J, Glusac E, Christensen I, Snyder E, Holloway V, Tigelaar R, Edelson RL. Large-scale induction of human tumor-loaded dendritic cells. *Int. J. Cancer* **91**: 438-447 (2001).

5. Berger CL, Longley J, Hanlon DJ, Girardi M, Edelson R. The clonotypic T cell receptor is a source of tumor-associated antigens in cutaneous T cell lymphoma. *Ann NY Acad Sci* **941**: 106-123 (2001).
6. Hanlon DJ*, Berger CL*, (*co-first authors), Kanada D, Dhodapkar, Lombillo V, Wang N, Christensen I, Howe G, Crouche J, El-Fishawy P, and Edelson R. The growth of cutaneous T-cell lymphoma is stimulated by immature dendritic cells. *Blood* **99**: 2929-2939 (2002).
7. Berger CL, Hanlon D, Kanada D, Girardi M, Edelson RL. Transimmunization, a novel approach for tumor immunotherapy. *Transfusion & Apheresis Science* **26**: 205-216 (2002).
8. Girardi M, Berger C, Hanlon DJ, Edelson RL. Efficient Tumor Antigen Loading of Dendritic Antigen Presenting Cells by Transimmunization. *Technology in Cancer Research and Treatment* **1**: 65-69 (2002).
9. Cody V, Shen H, Shlyankevich M, Tigelaar RE, Brandsma J, Hanlon DJ. Generation of dendritic cells from rabbit bone marrow mononuclear cells supplemented with hGM-CSF and hIL-4. *Vet Immunol and Immunother* **103**: 163-172 (2005).
10. Shen H, Ackerman A, Cody V, Giodini A, Hinson ER, Cresswell P, Edelson RL, Saltzman WM, Hanlon DJ. Enhanced and prolonged cross-presentation following endosomal escape of exogenous antigens encapsulated in biodegradable nanoparticles. *Immunol* **117**: 78-88 (2006).

C. Research Support.

Current Research Support

Yale Skin Cancer SPORE Developmental Research Award – Hanlon (co-PI) 07/01/06-06/30/07
NIH 1 P50 CA121974-01

Towards a Clinically-relevant Immunotherapy for Any Solid Tumor: Biodegradable Nanoparticles as Antigen Delivery Vehicles in Human Melanoma

This project seeks to encapsulate freshly excised melanoma tumor tissue into PLGA nanoparticle conjugates that are avidly phagocytosed by patient-derived DC and are capable of stimulating and expanding existing anti-tumor CD8+ T cells.

Role: co-PI

Completed Research Support

Swebilius Foundation Translational Research Award - Hanlon (PI) 04/01/05-03/31/06
Yale Cancer Center

Towards a Dendritic Cell Vaccine for All Solid Tumors

This study seeks to convert freshly excised tumor tissue into PLGA nanoparticle conjugates that are avidly phagocytosed by patient-derived DC and are capable of stimulating existing anti-tumor T cells.

Role: PI

YSDRCC Pilot/Feasibility Program - Hanlon (PI) 04/01/05-03/31/06
Yale Skin Disease Research Center

Nanoparticle Encapsulation of Melanoma as a Model of Solid Tumor Immunotherapy

This study will utilize the B16 murine melanoma model to develop and optimize a DC-based vaccine strategy that creates vaccines rapidly and by methodologies simple enough to be routinely performed in any academic oncology setting.

Role: PI

TURSG-01-174-01–MBC - Brandsma (PI) 07/01/01-06/30/05
American Cancer Society

Vaccination against Papillomavirus-Induced Diseases

The aim of this project is to determine the efficacy of two vaccination strategies targeting the four papillomavirus early proteins for the prevention and treatment of papillomavirus-associated disease.

Role: Co-Investigator

Principal Investigator/Program Director (Last, First, Middle): Hanlon, Douglas John

Dermatology Foundation - Hanlon (PI)

06/01/00-06/01/03

Career Development Fund

Identification of Gene Products Aberrantly Produced by Cutaneous T-cell Lymphoma (CTCL) Cells

The long term objective of this project was to identify genes differentially expressed in association with malignant transformation of "cutaneous" T-lymphocytes in CTCL.

Role: PI