

# Stuart Aidan Quinn

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- EDUCATION**     *Ph.D., Pathology and Molecular Medicine*     August 2014 - present  
Columbia University, New York, NY  
Adviser: Adolfo Ferrando, M.D., Ph.D.
- M.A., Biotechnology*     August 2011 - October 2012  
Columbia University, New York, NY  
Adviser: Carlos Cordon-Cardo, M.D., Ph.D.
- B.S. cum laude, Psychology*     August 2008 - May 2010  
Fairfield University, Fairfield, CT
- TECHNICAL SKILLS**     **Computer Science:** R, Python, Julia, L<sup>A</sup>T<sub>E</sub>X, SQL, HTML, PHP, Javascript. ML and linear algebraic methods incl. random forests, artificial neural nets, Markov models, PCA, TSNE  
**Bioinformatics:** Analysis of ChIP-seq, RNA-seq, ATAC-seq, Exome seq, expression microarray.  
**Wet Lab:** CRISPR-*Cas9*, xenotransplantation, Western Blot, IF/IHC, molecular cloning, tissue culture, FACS analysis.
- EXPERIENCE**     *Predoctoral Fellow*     August 2014 - Present  
Laboratory of Adolfo Ferrando  
Institute for Cancer Genetics, Columbia University, New York, NY
- Developed a pipeline for discovery of novel micropeptides from RNA-seq data.
  - Biochemically and functionally characterizing novel micropeptides discovered.
  - Generating CRISPR-*Cas9* knockout and knock-in mouse lines.
  - Developed and maintain lab website.
- Clinical Research Associate*     August 2013 - June 2014  
Department of Radiation Oncology  
Mount Sinai Hospital, New York, NY
- Designed and developed clinical outcomes research database.
  - Wrote human subjects study protocols for pro- and retrospective trials.
  - Performed statistical analysis for retrospective clinical research.
- Research Assistant*     September 2010 - August 2011  
Laboratory of Carlos Cordon-Cardo  
Department of Pathology, Mount Sinai Hospital, New York, NY
- Performed statistical analysis of expression microarray and RNA-seq data.
  - Designed and conducted validation experiments based on results from high-dimensional data analyses
- TEACHING**     *Teaching Assistant, Histology Laboratory*     September 2016-Present  
College of Physicians & Surgeons  
Columbia University, New York, NY

*Subject Tutor*, Math, SAT & Biology  
Huntington Learning Center, New York, NY

June 2012-2014

*Teaching Assistant*, Behavioral Statistics  
Department of Psychology  
Fairfield University, Fairfield, CT

August 2009-2010

**PUBLICATIONS** Phf6 loss enhances HSC self-renewal driving tumor initiation and leukemia stem cell activity in T-ALL. A Wendorff, **SA Quinn**, M Rashkovan, Madubata C, Ambesi-Impiombato A, Litzow M, Tallman M, E Paietta, M Paganin, G Basso, J Gastier-Foster, M Loh, R Rabadan, P Van Vlierberghe, A Ferrando. *Cancer Discovery* 2018 Dec 19; DOI: 10.1158/2159-8290.CD-18-1005.

RHOA G17V Induces T Follicular Helper Cell Specification and Promotes Lymphomagenesis. Cortes J, Ambesi-Impiombato A, Couronne L, **Quinn SA**, Kim C, daSilva-Almeida A, West Z, Belver L, Sanchez-Martin M, Scourzic L, Bhagat G, Bernard O, Ferrando A, Palomero T. *Cancer Cell* 2018 Feb 1; PMID: 29398449.

Activating mutations and translocations in the guanine exchange factor VAV1 in peripheral T-cell lymphomas. Abate F, da Silva-Almeida AC, Zairis S, Robles-Valero J, Couronne L, Khiabani H, **Quinn SA**, Kim MY, Laginestra MA, Kim C, Fiore D, Bhagat G, Piris MA, Campo E, Lossos IS, Bernard OA, Inghirami G, Pileri S, Bustelo XR, Rabadan R, Ferrando AA, Palomero T. *Proc Natl Acad Sci.* 2017 Jan 24; 114(4), 764-769. PMID: 28062691.

VAV1 Activating Mutations and Translocations in Peripheral T-Cell Lymphomas. Palomero T, Abate F, da Silva Almeida A, Zairis S, Robles-Valero J, Couronne L, Khiabani H, **Quinn SA**, Kim M, Laginestra M, Kim C, Fiore D, Bhagat G, Angel M, Campo E, Lossos I, Bernard O, Inghirami G, Pileri S, Bustelo X, Rabadan R, Ferrando A. *Blood.* 2016 Dec 12; 128(22), 2741-2741. PMID: 28062691.

Phase I/II prospective trial of cancer-specific imaging using ultrasound spectrum analysis tissue-type imaging to guide dose-painting prostate brachytherapy RD Ennis, **SA Quinn**, F Trichter, S Ryemon, A Jain, K Saigal, S Chandrashekar, NA Romas, EJ Feleppa. *Brachytherapy* 14 (6), 801-808. 2015 PMID: 26235201 .

A Targetable GATA2-IGF2 Axis Confers Aggressiveness in Lethal Prostate Cancer. Vidal SJ, Rodriguez-Bravo V, **Quinn SA**, Rodriguez-Barrueco R, Lujambio A, Williams E, Sun X, de la Iglesia-Vicente J, Lee A, Readhead B, Chen X, Galsky M, Esteve B, Petrylak DP, Dudley JT, Rabadan R, Silva JM, Hoshida Y, Lowe SW, Cordon-Cardo C, Domingo-Domenech J. *Cancer Cell.* 2015 Feb 09; 27(2):223-39. PMID: 25670080.

The impact of economic recession on the incidence and treatment of cancer Ennis KY, Chen MH, Smith GC, D'Amico AV, Zhang Y, **Quinn SA**, Ryemon SN, Goltz D, Harrison LB, Ennis RD. *Journal of Cancer* 6 (8), 727. *Brachytherapy* 14 (6), 801-808. 2015 PMID: 26185534.

Prostate Cancer: Muddying the waters by overlooking treatment modality. Ennis RD, **Quinn SA**. *Nature Reviews Clinical Oncology*. 2014 Apr 1; PMID: 24687032

Isolation of Cancer Stem Cells from Human Prostate Cancer Samples. Vidal S, **Quinn SA**, Vicente J, Rodriguez-Bravo V, Cordon-Cardo C, Domingo-Domenech, J. *Journal of Visualized Experiments*. 2014 Mar 14; PMID: 24686446.

Suppression of acquired docetaxel resistance in prostate cancer through depletion of notch and hedgehog-dependent tumor-initiating cells. Domingo-Domenech J, Vidal SJ, Rodriguez-Bravo V, Castillo-Martin M, **Quinn SA**, Rodriguez-Barrueco R, Bonal DM, Charytonowicz E, Gladoun N, de la Iglesia-Vicente J, Petrylak DP, Benson MC, Silva JM, Cordon-Cardo C. *Cancer Cell*. 2012 Sep 11; 22(3):373-88. PMID: 22975379.

**CONFERENCES & POSTERS** Role of Vav1 Genomic Alterations in T-Cell Differentiation and Transformation in Peripheral T-Cell Lymphoma. Jose Rodriguez Cortes, Anisha R. Cooke, **Aidan Quinn**, Ioan Filip, Juan Angel Patino, Raul Rabadan, Adolfo A. Ferrando, and Teresa Palomero. American Society of Hematology Conference, 2019.

Prospective phase I/II trial of dose-painting prostate brachytherapy guided by cancer-specific ultrasound-based tissue-type imaging (TTI). Ennis R, Trichter F, Saigal K, **Quinn SA**, Feleppa E. 2014 Feb; J Clin Oncol 32, 2014 (suppl 4; abstr 246).

The Correlation Between Number of Lymph Nodes Removed During Radical Prostatectomy and Surgical Margin Status. Donin N, Suh L, **Quinn A**, Hruba G, Benson M, McKiernan J. 2010 April; Vol. 183(4):e758-9. PMID: 20447479.

**COMMUNITY SERVICE** Big Brothers Big Sisters of NYC, *Mentor* April 2011 - Present  
Swim Across America, *5K Swimmer and volunteer* August 2014 - Present

**EXTRA-CURRICULAR** *Senator*, Columbia University Senate May 2016 - August 2018  
Member, External Affairs Committee  
Member, Student Affairs Committee  
Member, Commission for Diversity

*President*, CUMC Tennis Club February 2014 - August 2016