

CURRICULUM VITAE

J. Scott Cameron, M.D., Ph.D.

Assistant Professor
Departments of Pediatrics and Molecular Biology
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Date of birth August 26, 1961

Place of birth Teaneck, NJ

Marital status Happy, three children

Education

- 1983 B.A., Chemistry, The Johns Hopkins University, Baltimore, MD
1988 Ph.D., Genetics, State University of New York, Stony Brook
Thesis advisor: Dr. Michael Wigler, Cold Spring Harbor Laboratory
1992 M.D., Harvard Medical School, Harvard-M.I.T. Division of Health Sciences
and Technology, *cum laude*

Postdoctoral clinical and research training

- 1992-1994 Intern and Resident, Children's Hospital, Boston
1995-1998 Fellow, Pediatric Hematology/Oncology, Dana-Farber Cancer Institute/Children's
Hospital, Boston
1996-2001 Postdoctoral Fellow (with Dr. H. Robert Horvitz), Howard Hughes Medical
Institute, Department of Biology, Massachusetts Institute of Technology

Academic appointments

- 1997 Instructor in Pediatrics, Harvard Medical School
2001 Assistant Professor of Pediatrics, Division of Hematology/Oncology
University of Texas Southwestern Medical Center at Dallas
2001 Assistant Professor of Molecular Biology
University of Texas Southwestern Medical Center at Dallas

Hospital appointments

- 1997 Attending Physician, Children's Hospital, Boston, MA
1997 Attending Physician, Dana-Farber Cancer Institute, Boston, MA
2001 Attending Physician, Children's Medical Center, Dallas, TX

Honors and awards

- 1992 Graduated *cum laude* from Harvard Medical School
1992 New England Pediatric Society Award for Harvard graduate with qualities
desired in a pediatrician
1993 Society for Pediatric Research, Pediatric House Officer Research Award
1996 Postdoctoral Fellowship for Physicians, Howard Hughes Medical
Institutes
1996 Physician-Scientist Award, Damon Runyon-Walter Winchell Foundation

- 1999 Postdoctoral Fellowship, Merck/M.I.T. Collaborative Program
- 2001 UT Southwestern, Children's Cancer Fund Endowed Scholar in Biomedical Research
- 2006 Elected to membership, Society for Pediatric Research

Board certification

- 1997 American Board of Pediatrics
- 1998 American Board of Pediatric Subspecialties, Hematology/Oncology
- 2004 Recertification, American Board of Pediatrics
- 2005 Recertification, American Board of Pediatric Subspecialties, Hematology/Oncology

Licensure

- 2002 Texas License number L2165

Professional Societies

- 2001 American Society of Hematology
- 2002 Genetics Society of America
- 2006 Society for Pediatric Research

Administrative Responsibilities, Committees and Service

- 1/03 - 9/03 Division of Pediatric Hematology-Oncology Committee on Fellowship Training
- 9/03 - 1/04 Chair, Department of Pediatrics Study Group on Fellowship Education
- 1/04 – 9/05 Physician and founding member, Chemotherapy Safety Task Force
- 11/04-present Organizer, Medical Scientist Training Program Interviews for Department of Pediatrics
- 2004-present Member, High Risk, High Impact Grant review panel (one of seven members, internal grant program, directed by Dr. Al Gilman, biannual)
- 2004-present Member Children's Clinical Research Advisory Committee (reviews and awards substantial grants for pediatric research supported by Children's Medical Foundation)
- 7/05-present Member, Graduate Steering Committee, Genetics and Development Graduate Program, Division of Biological Sciences (sets requirements and policies for the largest DBS graduate program on campus)
- 6/05-present Member, Cancer Biology Training Track, Division of Biological Sciences
- 7/05-present Affiliated Member, Cancer Cell Signaling Group, Simmons Comprehensive Cancer Center
- 9/05-present Member, Cancer and Development Scientific Program, Simmons Comprehensive Cancer Center
- 4/06-present Member, Clinical Research Advisory Committee Grant Review Committee, Children's Medical Center, Dallas an internal grant review committee for a substantial program supporting basic and clinical research. One of ~15 members, meets twice each year.
- 9/06-present Co-Chair (with Luis Parada), Cancer and Development Scientific Program, Simmons Comprehensive Cancer Center (one of four Scientific Programs in the Cancer Center at UT Southwestern, each with approximately 30 faculty)
- 9/06-8/07 Standing Member (one of three), Scholarship Oversight Committee, Division of Pediatric Hematology-Oncology for First-Year Fellows

- 2007 Member, Simmons Cancer Center/American Cancer Society grants review panel
- 2007 Standing Member (one of four) Scholarship Oversight Committee, Division of Pediatric Hematology-Oncology for all Second-Year and later Fellows
- 2007 Member, Faculty and Student Evaluation Committee, Cancer Biology Training Track, Genetics and Development Program, Division of Biological Sciences
- 2008 Member, Search Committee for new Chairperson, Pediatric Infectious Disease
- 2008 Member, Search Committee for Director, Pediatric Bone Marrow Transplantation, Children's Medical Center
- 2008 Member, NCTCTSI grants review panel (North Central Texas Clinical and Translational Science Initiative), a biannual review panel of research grants
- 2008 Affiliate member, Chemistry and Cancer Scientific Program, Simmons Comprehensive Cancer Center.

Clinical Activities

I attend one month each year on the oncology, stem cell transplant, or hematology service at Children's Medical Center. I also attend in the outpatient oncology clinic two days each month.

Major Teaching Responsibilities

- 2001-present Lecturer, UTSW Division of Biological Sciences Core Course. 75-100 Ph.D. students, two to three lectures per year, each with associated problem sets and exam
- 2001-present Discussion group leader, UTSW Division of Biological Sciences Core Course. 10-12 students, seven sessions per year
- 2003-present Lecturer and Discussion Leader, UTSW Genetics and Development Graduate Program, Advanced Genetics course. 30 students, four lectures per year with associated exam
- 8/04-8/06 Organizer, Bedside to Bench Seminar Series, Medical Scientist Training Program. Monthly seminar for MSTP students. Involved arranging meetings with patients and discussions of clinical and basic aspects of medical research
- 2005-present Course Director, Advanced Genetics I. UTSW Genetics and Development Graduate Program. 30 students, four lectures and exams in addition to all course-associated administration
- 2008 Lecturer, Cancer Biology. Approximately 20 students, one lecture with associated reading.

Supervisory Responsibilities

Graduate Student Dissertation Committees
11 students, Committee Chairperson for eight.

Completed Graduate Student Committees
Eight students, committee chairperson for seven.

Completed Individual Pediatric Hematology Oncology Fellows,
Scholarship Oversight Committees

Jennifer Wright

Shelly Crary (Committee Chairperson)

Scientific Trainees

Rebecca Olvera, M.D. Postdoctoral Fellow 2001-2004

Huarui Liu, M.D., Postdoctoral Fellow 2002-2005

Mrudula Ganga, Ph.D., Postdoctoral Fellow 2005-2007

Ozgur Karakuzu, DBS Graduate Student, 2003-2008

Malia Potts, DBS Graduate Student, 2005-2008

Vera Paulson, MSTP graduate student, 2007-present

Robert Pollok DBS Graduate Student, 2008-present

Jennifer Winn DBS Graduate Student, 2008-present

Grants support

NIH/NIGMS/NCI, Children's Cancer Fund, Lauri Strauss Leukemia Fund

Publications:

1. Toda, T., Uno, I., Ishikawa, T., Powers, S., Kataoka, T., Broek, D., **Cameron, S.**, Broach, J., Matsumoto, K. and Wigler, M. (1985). In yeast, RAS proteins are controlling elements of adenylate cyclase. *Cell* **40**:27-36.
2. Kataoka, T., Powers, **S.**, **Cameron, S.**, Fasano, O., Goldfarb, M., Broach, J. and Wigler, M. (1985). Functional homology of mammalian and yeast RAS genes. *Cell* **40**:19-26.
3. Nikawa, J., **Cameron, S.**, Toda, T., Ferguson, K.M. and Wigler, M. (1987). Rigorous feedback control of cAMP levels in the yeast *Saccharomyces cerevisiae*. *Genes and Development* **1**:931-937.
4. Toda, T., **Cameron, S.**, Sass, P., Zoller, M., Scott, J.D., McMullen, B., Hurwitz, M., Krebs, E.G. and Wigler, M. (1987). Cloning and characterization of BCY1, a locus encoding a regulatory subunit of the cyclic AMP-dependent protein kinase in *Saccharomyces cerevisiae*. *Mol. Cell Biol.* **7**:1371-1377.
5. Johnson, K.E., **Cameron, S.**, Toda, T., Wigler, M. and Zoller, M.J. (1987). Expression in *Escherichia coli* of BCY1, the regulatory subunit of cyclic AMP-dependent protein kinase from *Saccharomyces cerevisiae*. Cloning and characterization. *J. Biol. Chem.* **262**:8636-8642.
6. Toda, T., **Cameron, S.**, Sass, P., Zoller, M. and Wigler, M. (1987). Three different genes in *Saccharomyces cerevisiae* encode the catalytic subunits of the cAMP-dependent protein kinase. *Cell* **50**:277-287.
7. Zoller, M.J., Kuret, J., **Cameron, S.**, Levin, L. and Johnson, K.E. (1988). Purification and characterization of C1, the catalytic subunit of *Saccharomyces cerevisiae* cAMP-dependent protein kinase encoded by TPK1. *J. Biol. Chem.* **263**:9142-9148.
8. Toda, T., **Cameron, S.**, Sass, P. and Wigler, M. (1988). SCH9, a gene of *Saccharomyces cerevisiae* that encodes a protein distinct from, but structurally and functionally related to, cAMP-dependent protein kinase catalytic subunits. *Genes and Development* **2**:517-527.

9. **Cameron, S.**, Levin, L., Zoller, M.J. and Wigler, M. (1988). cAMP-independent control of sporulation, glycogen metabolism and heat shock resistance in *S. cerevisiae*. *Cell* **53**:555-566.
10. Levin, L.R., Kuret, J., Johnson, K.E., Powers, S., **Cameron, S.**, Michaeli, T., Wigler, M. and Zoller, M.J. (1988). A mutation in the catalytic subunit of cAMP-dependent protein kinase that disrupts regulation. *Science* **240**:68-70.
11. Wigler, M., Field, J., Powers, S., Broek, D., Toda, T., **Cameron, S.**, Nikawa, J., Michaeli, T., Colicelli, J. and Ferguson, K. (1988). Studies of RAS function in the yeast *Saccharomyces cerevisiae*. *Cold Spring Harbor Symposia on Quantitative Biology* **53**:649-655.
12. **Cameron, S.**, Taylor, D.S., TePas, E.C., Speck, N.A. and Mathey-Prevot, B. (1994) Identification of a critical regulatory site in the human IL-3 promoter by *in vivo* footprinting. *Blood* **83**:2851-2859.
13. Reddien, P.W., **Cameron, S.** and Horvitz, H.R. (2001). Phagocytosis promotes programmed cell death in *C. elegans*. *Nature* **412**:198-202.
14. Saleque, S., **Cameron, S.** and Orkin, S.H. (2002). The zinc-finger protooncogene Gfi-1b is essential for development of the erythroid and megakaryocytic lineages. *Genes and Development* **16**:301-306.
15. **Cameron, S.**, Clark, S., McDermott, J.B., Aamodt, E. and Horvitz, H.R. (2002). PAG-3, a Zn finger transcription factor, determines neuroblast fate in *C. elegans*. *Development* **129**:1763-1774.
16. Hock, H., Hamblen, M.J., Rooke, H.M., Traver, D., Bronson, R.T., **Cameron, S.**, and Orkin, S.H. (2003). The zinc finger transcription factor Gfi-1 is required for neutrophil differentiation and refines the identity of the myeloid lineages. *Immunity* **18**:109-120.
17. McLaughlin, M., Robson, C.D., Kieran, M.W., Jacks, T., Pomeroy, S.L., and **Cameron, S.** (2003). Marked regression of metastatic pilocytic astrocytoma during treatment with imatinib mesylate (STI-571, Gleevec): A case report and laboratory investigation. *J. Pedi. Hem.-Oncol.* **25**:644-648.
18. Liu, H., Strauss, T.J., Potts, M.B. and **Cameron, S.** (2006). Direct regulation of *egl-1* and programmed cell death by the Hox protein MAB-5 and by CEH-20, a *C. elegans* homolog of Pbx1. *Development* **133**:641-650. Featured article.
19. Prasad, B., Karakuzu, O., Reed, R.R. and **Cameron, S.** (2008). *unc-3*-dependent repression of specific motor neuron fates in *Caenorhabditis elegans*. *Developmental Biology* **323**:207-215.
20. Neunert, C.E., Parajape, G.S., **Cameron, S.** and Rogers, Z.R. (2008). Intravascular Hemolysis Following Low Dose Daily Rifampin. *Pediatric Blood and Cancer* **51**:821-823.
21. Karakuzu, O., Wang, D.P., and **Cameron, S.** (2009). MIG-32 and SPAT-3A are PRC1 homologs that control neuronal migration in *Caenorhabditis elegans*. *Development*, **136**:943-953.
22. Potts, M.B., Wang, D.P., and Cameron, S. (2009). Trithorax, Hox and TALE-class homeodomain proteins ensure cell survival through repression of the BH3-only gene *egl-1*. *Developmental Biology*, in press.