

CURRICULUM VITAE

Michael James Hitchler Ph.D.
University of Southern California
1450 Biggy St
NRT 6513
Los Angeles, CA 90033

July, 2008

I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. Institutions Attended

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|---------------|--|
| 8/1996-5/2003 | B.S., Agricultural Biochemistry
Iowa State University Ames IA |
| 8/2000-8/2003 | M.S., Biochemistry
Iowa State University Ames IA |
| 8/2003-5/2008 | Ph.D. Free Radical & Radiation Biology Program,
University of Iowa Health Care Iowa City IA |

B. Professional and Academic positions held

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|------------------------|---|
| 8/2000-5/2003 | Graduate Research Assistant, Department of
Biochemistry Biophysics and Molecular biology Iowa
State University, Ames IA |
| 5/2003-8/2003 | Research Scientist, Pioneer Hi-Bred International,
Johnston IA |
| 8/2003-5/2008 | Graduate Research Assistant, Department of Radiation
Oncology University of Iowa, Iowa City IA |
| 6/2008- <i>present</i> | Postdoctoral Research Fellow, Department of
Biochemistry and Molecular Biology, University of
Southern California, Los Angeles CA |

C. Honors and Awards (least to most recent)

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|------|---|
| 2005 | Young Investigator Award, Society for Free Radical
Biology and Medicine 12 th Annual Meeting Austin TX. |
| 2005 | AACR Pathobiology of Cancer: The Edward A.
Smuckler Memorial Workshop Attendee Snowmass CO |
| 2005 | NIH/NRSA Predoctoral Training Grant Recipient,
Free Radical and Radiation Biology Program |

- Department of Radiation Oncology
University of Iowa Health Care Iowa City IA.
- 2006 NIH/NRSA Predoctoral Training Grant Recipient,
Free Radical and Radiation Biology Program
Department of Radiation Oncology
University of Iowa Health Care Iowa City IA.
- 2006 Outstanding Graduate Student as a Mentor, Graduate
College University of Iowa.
- 2006 Center on Aging poster award, Carver College of
Medicine Research week, University of Iowa.
- 2006 Travel award, Society for Free radical Biology and
Medicine 13th Annual meeting Denver CO.
- 2007 National Institutes of Health National Graduate
Research Festival Attendee, Bethesda MD.
- 2007 NIH/NRSA Predoctoral Training Grant Recipient,
Free Radical and Radiation Biology Program
Department of Radiation Oncology
University of Iowa Health Care Iowa City IA.

II. TEACHING

A. Teaching assignments on semester by semester basis (least to most recent)

- 1/2005-5/2005 Lecturer, Radiation Biology for Radiation Therapists
Department of Radiation Oncology
University of Iowa Health Care Iowa City IA
- 9/2005-12/2005 Lecturer, Radiation Biology and Safety
Department of Radiology
University of Iowa Health Care Iowa City IA
- 1/2006-5/2006 Course Director, Radiation Biology for Radiation
Therapists
Department of Radiation Oncology
University of Iowa Health Care Iowa City IA
- 9/2006-12/2006 Lecturer, Radiation Biology and Safety
Department of Radiology
University of Iowa Health Care Iowa City IA

- 1/2007-5/2007 Lecturer, Radiation Biology for Radiation Therapists
Department of Radiation Oncology
University of Iowa Health Care Iowa City IA
- 9/2007-12/2007 Lecturer, Radiation Biology and Safety
Department of Radiology
University of Iowa Health Care Iowa City IA
- 9/2007-12/2007 Lecturer, Radiation Biology for Graduate Students
Department of Radiation Oncology
University of Iowa Health Care Iowa City IA
- 1/2008-5/2008 Lecturer, Radiation Biology for Radiation Therapists
Department of Radiation Oncology
University of Iowa Health Care Iowa City IA

B. Other contributions to institutional programs

- 11/2004-2007 Student Representative, Department of Radiation
Oncology, University of Iowa Health Care

III. SCHOLARSHIP

A. Publications or creative works

1. Hitchler MJ. Characterization of Replication Protein A homologues from *Zea mays*, Masters Thesis Iowa State University 2003.
2. Andringa KK, Coleman MC, Aykin-Burns N, Hitchler MJ, Walsh SA, Domann FE, Spitz DR. Inhibition of glutamate cysteine ligase activity sensitizes human breast cancer cells to the toxicity of 2-deoxy-D-glucose. *Cancer Res.* 2006 Feb 66(3):1605-10.
3. Rose SL, Fitzgerald MP, White NO, Hitchler MJ, Futscher BW, De Geest K, Domann FE. Epigenetic regulation of maspin expression in human ovarian carcinoma cells. *Gynecol Oncol.* 2006 Aug 102(2) 319-24.
4. Hitchler MJ, Wikainapakul K, Yu L, Powers K, Attatippaholkun W, Domann FE. Epigenetic regulation of manganese superoxide

dismutase expression in breast cancer cells. *Epigenetics*. 2006 Aug 1(4) :163-171.

5. Menon SG, Sarsour EH, Kalen AL, Venkataraman S, Hitchler MJ, Domann FE, Oberley LW, Goswami PC. Superoxide signaling mediates N-acetyl-L-cysteine-induced G1 arrest: regulatory role of cyclin D1 and manganese superoxide dismutase. *Cancer Res*. 2007 July 67(13): 6392-9.
6. Provenzano MJ, Yu L, Hitchler MJ, Fitzgerald MP, Robinson RA, Wayne S, Ver Meer M, Domann FE. AP-2 participates in the transcriptional control of the amyloid precursor protein (APP) gene in oral squamous cell carcinoma. *Exp Mol Pathol*. 2007 Oct 83(2): 277-82.
7. Hitchler MJ, Domann FE. An epigenetic perspective on the free radical theory of development. *Free Rad Bio Med*. 2007 Oct 43(7): 1023-36.

B. Presentations at National Conferences

1. Epigenetic silencing of manganese superoxide dismutase in breast cancer. Free radical Biology and Medicine 12th Annual Meeting, 2005 Austin TX.
2. Epigenetic silencing of manganese superoxide dismutase in breast cancer. Midwest Chromatin, Transcription, and Nuclear Dynamics, 2006 Iowa City IA.
3. Histone modifications participate in the transcriptional regulation of manganese superoxide dismutase. Society for Free radical Biology and Medicine 13th Annual Meeting, 2006 Denver CO.
4. An altered epigenetic landscape represses *SOD2* expression in human breast cancer cells. Society for Free Radical Biology and Medicine 14th Annual Meeting 2007 Washington DC.

C. Areas of Research Interest and Current Projects

Epigenetics, DNA methylation, Chromatin biology, Radiation Biology, Cancer Biology

D. Grants received

“Study of Replication Protein A Homologues in *Zea mays*”

Pioneer Hi-Bred International

6/2001-5/2003

P.R. Chitnis, Principle Investigator

M.J. Hitchler, Co-Investigator

\$37,000 direct costs

100% Salary support

“Role of histone H4 methylation in chromatin condensation and DNA repair”

NIH F32 GM085907

8/2008-*current*

M.J. Hitchler Principle Investigator

\$44,846 direct costs

100% Salary support

IV. SERVICE

A. Memberships in Professional Organizations

2005-present Member, Society for Free Radical Biology and Medicine

2005-present Member, Epigenetics Society

2005-present Member, Radiation Research Society