

**CURRICULUM VITAE
BIOGRAPHICAL – 5/2016**

Name: Colin E. Champ, M.D.

Business Address: UPMC Cancer Center
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EDUCATION and TRAINING

Undergraduate:

1999-2003 B.S., Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA

Graduate:

8/2004-5/2008 M.D., Jefferson Medical College of Thomas Jefferson University, Philadelphia, PA

Postgraduate Training:

7/2008-6/2009 Intern, Crozer Chester Medical Center, Chester, PA

7/2009-6/2013 Resident Physician, Thomas Jefferson University Hospital, Philadelphia, PA

4/2012-4/2013 Chief Resident, Thomas Jefferson University Hospital, Philadelphia, PA,
Chairman: Adam Dicker, M.D., Ph.D.
Program Director: Maria Werner-Wasik, M.D.

APPOINTMENTS and POSITIONS

Work Experience:

2001 Martial Arts Film Stuntman and Fight Scene Choreographer, Boston, MA

2003 Orthopedic Surgery Externship, Saca Hospital, Kosice, Slovakia

2003-2004 Financial Consultant, Bank One/JP Morgan, Chicago, IL

2013-current Assistant Clinical Professor, University of Pittsburgh Department of Radiation Oncology

2015-current Project advisor for the University of Pittsburgh Department of Chemical Engineering Ph.D. program. The project is developing a nano-sized device that monitors ketosis.
2015-current Medical Project Advisor for Carnegie Mellon University Rapid Prototyping Course. The undergraduate and graduate student class built a “tracking” device that monitored patient activities while at home to help medical personnel care for patients remotely.

CERTIFICATIONS and LICENSURE

2014 Board Certified in Radiation Oncology by the American Board of Radiology
2014 Board Certified in Integrative Medicine by the American Board of Integrative and Holistic Medicine

MEMBERSHIPS in PROFESSIONAL and SCIENTIFIC SOCIETIES

2009- Member, American Society for Radiation Oncology
2009- Member, American Society of Clinical Oncology
2009- Member, Radiological Society of North America
2011- Member, Nutrition and Metabolism Society
2012- Member, American Association for Cancer Research
2012- Member, American Radium Society

HONORS

2003 Sigma Xi Excellence in Research Society
2006 Pharmacology Merit Award, Jefferson Medical College
2011-2012 Invited medical student mentor: American Medical Women’s Association of Jefferson Medical College
2012 2012 AACR/ASCO Workshop on Methods in Clinical Cancer Research
Project: *Phase I study of a low-carbohydrate ketogenic diet combined with stereotactic radiotherapy for the treatment of patients with recurrent glioblastoma multiforme.*
Mentors: *Jeff Volek, Ph.D., R.D., Adam P. Dicker, M.D., Ph.D., Douglas Spitz, Ph.D.*
2012 Invited expert reviewer: *Nutrition and Cancer*
2013 Invited editorial board member: *Journal of Health and Evolution*
2014 Invited editorial board member: *Frontiers in Radiation Oncology*

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| 2014 | Invited board member of Max Love Project, a nonprofit organization for advancing cancer research incorporating diet and comprehensive care |
| 2014 | Invited expert reviewer: <i>Journal of Experimental & Clinical Cancer Research Nutrition & Metabolism</i> |
| 2014 | Compassionate Doctor Recognition Award by Vitals.com physician rating service |
| 2014-2015 | Leo H. Crip, M.D. Excellence in Patient Care Award: Annual honor given to a “UPMC Cancer Center physician who has demonstrated work-related efforts that are truly above and beyond the normal course of duty” |
| 2015 | Invited expert reviewer: <i>Cureus, PLOS One</i> |
| 2015 | UPMC St. Margaret Above and Beyond Recipient: Award given to a staff member at UPMC St. Margaret who “go that extra step and provide service that is above and beyond expectations” |

PUBLICATIONS

Books:

Champ, Colin E. *Misguided Medicine: The truth behind ill-advised recommendations and how to take health back into your hands*. CDR Health and Nutrition. Pittsburgh, PA. 2014.

Champ, Colin E. *Misguided Medicine: Second Edition*. CDR Health and Nutrition. Pittsburgh, PA. 2016. Amazon Bestseller and #1 New Release.

Peer-Reviewed Publications:

1. **Champ CE**, Smith RP. Radiation Recall and Woody Fibrosis. *New England Journal of Medicine*. 372;20. May 14, 2015
2. **Champ CE**, Joshua D. Palmer JD, Volek JS, Werner-Wasik M, Andrews DW, Evans JJ, Glass J, Kim L, Shi W. Targeting metabolism with a ketogenic diet during the treatment of glioblastoma multiforme. *Journal of Neuro-Oncology. J Neurooncol*. 2014 Mar;117(1):125-31.
3. **Champ CE**, Mishra MV, Showalter TN, Ohri N, Dicker AP, Simone NL. Dietary recommendations during cancer treatment: Consistently inconsistent? *Nutrition and Cancer*. 2013;65(3):430-9
4. **Champ CE**, Shen X, Shi W, Mayekar SU, Chapman K, Werner-Wasik, M, Gunn V, Liu H, Farrell C, Evan JJ, Andrews DW. Reduced-Dose Fractionated Stereotactic Radiotherapy for Acoustic Neuromas: Maintenance of Tumor Control with Improved Hearing Preservation. *Neurosurgery*. 2013. Sep;73(3):489-96.
5. **Champ CE**, Volek, JS, Siglin J, Jin L, Simone NS. Weight Gain, Metabolic Syndrome, and Breast Cancer Recurrence: Are Dietary Recommendations Supported by the Data? *International Journal of Breast Cancer* 2012, 2012:9.

6. **Champ CE**, Baserga R, Mishra MV, Lianjin J, Sotgia F, Pestell R, Lisanti MP, Dicker AP, Simone NL. Nutrient Deprivation and Radiation Therapy for Cancer Treatment: When Less is More. *The Oncologist*. 2013;18(1):97-103.
7. **Champ CE**, Francis L, Klement RJ, Dickerman R, Smith RP. Fortifying the Treatment of Prostate Cancer with Physical Activity. *Prostate Cancer*. 2016;2016:9462975.
8. **Champ CE**, Mishra MV, Shi W, Siglin J, Werner-Wasik M, Andrews DW, Evans JJ, Stereotactic Radiotherapy for Trigeminal Schwannomas. *Neurosurgery*. 2012 Aug;71(2):270-7.
9. **Champ CE**, Siglin J, Mishra MV, Mayekar SU, Werner-Wasik M, Andrews DW, Liu H, PhD, Shi W. Delayed planning MRI spares more normal tissue than post-operative MRI without detriment in tumor control: A prospective study. *Radiation Oncology*. 2012, 7:220
10. **Champ CE**, Hegarty SE, Shen X, Mishra MV, Dicker AP, Trabulsi EJ, Lallas CD, Gomella LG, Hyslop T, Showalter TN. Prognostic factors and outcomes after definitive treatment of female urethral cancer: A population-based analysis. *Urology*. 2012 Aug;80(2):374-82.
11. **Champ CE**, Showalter TN. Editorial Reply: Prognostic factors and outcomes after definitive treatment of female urethral cancer: A population-based analysis. *Urology*. 2012 Aug;80(2):381-2.
12. **Champ CE**, Klement RJ. Commentary on "Strong adverse prognostic impact of hyperglycemic episodes during adjuvant chemoradiotherapy of glioblastoma multiforme." *Strahlenther Onkol*. 2014. [epub ahead of print].
13. Klement RJ, **Champ CE**. Calories, carbohydrates, and cancer therapy with radiation: exploiting the five R's through dietary manipulation. *Cancer Metastasis Rev*. 2014:1-13.
14. Klement RJ, **Champ CE**, Otto C, Kämmerer U. Anti-tumor effects of ketogenic diets in mice: A meta-analysis. *PLOS One*. PLoS One 11, e0155050 (2016)
15. Nowak K, Eldredge-Hindy H, **Champ CE**. Metformin: The sweet link between tumor genetics and metabolism? *OA Cancer*. 2014 Apr 09;2(1):7.
16. Siglin J, **Champ CE**, Vakhnenko Y, Anne PR, Simone NL: Radiation Therapy for Locally Recurrent Breast Cancer. *International Journal of Breast Cancer*. 2012, 2012:7.
17. Simone BA, **Champ CE**, Rosenberg AL, Dicker AP, Foster GD, Simone NL. Selectively starving cancer cells through dietary manipulation: Methods and clinical implications. *Future Oncology*. 2013/07/01 2013;9(7):959-976.
18. Mishra MV, **Champ CE**, Keith SW, Showalter TN, Anne PR, Bar-Ad V. Conditional survival probabilities in patients with resected pancreatic carcinoma: A population-based analysis. *Am J Clin Oncol*. 2014 Apr;37(2):107-11.
19. Kubicek GJ, **Champ CE**, Fogh S, Wang F, Reddy E, Intenzo C, Dusing RW, Machtay M. FDG-PET Staging and Importance of Lymph Node SUV in Head and Neck Cancer. *Head and Neck Oncology* 2:19, 2010.
20. Mishra MV, **Champ CE**, Den R, Scher E, Shen X, Trabulsi E, Dicker AP, Showalter TN. Post-Prostatectomy Radiation Therapy: An Evidence-Based Review. *Future Oncology*. 2011;7:1429-1440.

21. Fogh S, Kubicek G, **Champ CE**, Intenzo C, Axelrod R, Keane W, Machtay M. Value of FDG PET for Detecting Metastatic Lesions in Head and Neck Cancer. *American Journal of Clinical Oncology*. 2012 Aug;35(4):311-5.
22. Siglin J, **Champ CE**, Zaorsky N, Vakhnenko Y, Witek ME, Harrison A, Shi W. Optimizing Patient Positioning for Intensity Modulated Radiation Therapy in Hippocampal-Sparing Whole Brain Radiation Therapy. *Practical Radiation Oncology*. 2014 January 14 [Epub ahead of print]
23. Saleh A, Simone BA, Palazzo J, Savage JE, Sano Y, Dan T, Jin L, **Champ CE**, Zhao S, Lim M, Sotgia F, Camphausen K, Pestell RP, Mitchell JB, Lisanti MP, Simone NL. Caloric Restriction Augments Radiation Efficacy in Breast Cancer. *Cell Cycle*. 2013 Jun 15;12(12):1955-63.
24. Palmer JD, Siglin J, Yamaoah K, **Champ CE**, Bar-Ad V, Werner-Wasik M, Evans JJ, Kim L, Glass J, Farrell C, Andrews DW, Shi W. Re-resection for recurrent high-grade glioma in the setting of re-irradiation: more is not always better. *J Neurooncol*. 2015 May 30. [Epub ahead of print]
25. Fogh SE, Andrews DW, Glass J, Curran W, Glass C, **Champ CE**, Evans JJ, Hyslop T, Pequignot E, Downes B, Comber E, Maltenfort M, Dicker AP, Werner-Wasik M. Hypofractionated Stereotactic Radiation Therapy: An Effective Therapy For Recurrent High-Grade Gliomas. *Journal of Clinical Oncology*. 2010 Jun 20;28(18):3048-53.
26. Cao J, Cui Y, **Champ CE**, Liu H, Xiao Y, Werner-Wasik W, Yu Yan. Determination of internal target volume using selective phases of a 4-dimensional computed tomography scan. *Practical Radiation Oncology* (2012) 2, 186–192.
27. Mishra MV, Shen X, Den RB, **Champ CE**, Trabulsi EJ, Lallas C, Gomella LG, Dicker AP, Showalter TN. Patterns of care for elderly men with low-risk prostate cancer: A population-based analysis. *American Journal of Clinical Oncology*. 2013 Dec;36(6):606-11.
28. Mishra MV, Keith SW, Shen X, Bar Ad V, **Champ CE**, Biswas T. Primary Pancreatic Lymphoma: A Population-based Analysis Using the SEER Program. *Am J Clin Oncol*. 2013 Feb;36(1):38-43.
29. Shen X, Andrews DW, Sergott RC, Evans JJ, Curran WJ, Machtay M, Maltenfort MG, Fragoso R, Eldredge H, **Champ CE**, Witek M, Mishra MV, Dicker AP, Werner-Wasik M. Symptom Outcomes Following Fractionated Stereotactic Radiation Therapy of Skull Base Meningiomas. *Radiation Oncology*. 2012, 7:225.
30. Shi W, Jain V, Kim H, **Champ CE**, Jain G, Farrell C, Andrew DW, Judy K, Liu H, Artz G, Werner-Wasik M, Evans JJ. Fractionated Stereotactic Radiotherapy for Facial Nerve Schwannomas. *J Neurol Surg B Skull Base*. 2016 Feb;77(1):75-80.

Invited Lectures/Presentations

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| 10/29/2012 | 2012 American Society for Radiation Oncology Annual Meeting: <i>Long-Term Results of Reduced-Dose Fractionated Stereotactic Radiotherapy for Acoustic Neuromas: Maintenance of Tumor Control with Improved Hearing Preservation.</i> |
| 2/22/2013 | Grand Rounds Visiting Professor Lecture Montefiore Medical Center: <i>Enhancing Radiation Therapy through Dietary Manipulation</i> , Bronx, NY |
| 3/29/2013 | Paleo FX Panel Discussion, Austin Texas: <i>The Future of American Healthcare</i> |

- 3/30/2013 Paleo FX Panel Discussion, Austin, Texas: *Circadian Rhythms and Cancer*
- 3/30/2013 Paleo FX Panel Discussion, Austin, Texas: *The Ketogenic Diet and Cancer*
- 8/17/2013 Ancestral Health Symposium 2013, Capitol Ballroom Presentation: *Intermittent Fasting and Carbohydrate Restriction in Cancer Management*
- 2/21/2014 Invited panel discussion at the Integrative Healthcare Symposium on the optimal diet for patients, New York, NY
- 3/26/2014 Clinical Oncology Grand Rounds University of Pittsburgh Medical Center Hillman Cancer Center: *Augmenting Cancer Therapy through Diet*
- 7/24/2014 Cancer Grand Rounds UPMC St. Margaret: *Diet and Breast Cancer – Sorting through the Fat*, Pittsburgh, PA
- 9/13/2014 Children's Hospital of Orange County's Patient-Family Neuro-Oncology Day: *Diet and the Treatment of Cancer: Have We Found a Sweet Spot?* Orange County, CA
- 10/21/2014 Florida Institute for Human and Machine Cognition Evening Lecture Series: *Augmenting Cancer Therapy with Diet*, Ocala, FL
- 2/20/2015 Integrative Oncology Wellness Symposium: Invited to speak to a large group of women regarding diet, nutrition, and lifestyle for the prevention of cancer, Fairmont Hotel, Pittsburgh, PA
- 6/5/2015 University of Pittsburgh Hillman Cancer Center Clinical Staff Integrative Oncology Series: *Diet during Cancer Treatment*, Pittsburgh, PA
- 6/20/2015 Us TOO International Prostate Cancer Education and Support Network 25th Anniversary Educational Symposium Invited Lecture: *Fortifying the Treatment of Prostate Cancer with Lifestyle*, Chicago, IL
- 8/28/2015 University of Pittsburgh Hillman Cancer Center Research Coordinator Lecture Series Clinical Staff Integrative Oncology Series: *Fortifying the Treatment of Prostate Cancer with Lifestyle*, Pittsburgh, PA
- 10/9/2015 University of Cincinnati Cancer Center Grand Rounds: *Augmenting Cancer Therapy with Diet & the Metabolic Management of Glioblastoma*, Cincinnati, OH
- 10/9/2015 3rd International Conference on Integrative Medicine: *The Ketogenic Diet and Cancer: Teaching an Old Dog New Tricks*, Fulda, Germany
- 1/21/2016 Us TOO International Prostate Cancer Education and Support Network Pittsburgh Chapter Invited Lecture: *Fortifying the Treatment of Prostate Cancer with Lifestyle*, Pittsburgh, PA
- 1/29/2016 1st Annual Conference on Nutritional Ketosis and Metabolic Therapeutics Cancer Keynote: *The Ketogenic Diet and Cancer: Teaching an Old Dog New Tricks*, Tampa, FL
- 5/7/2016 9th Annual Technical and Clinical Advances in Radiation Oncology: Improving Patient Safety and Quality of Care Through Risk-Based Approaches to Quality Management in

Abstract Presentations:

1. **Champ CE**, Shen X, Shi W, Mayekar SU, Chapman K, Werner-Wasik, M, Gunn V, Liu H, Farrell C, Evan JJ, Andrews DW. Long-Term Results of Reduced-Dose Fractionated Stereotactic Radiotherapy for Acoustic Neuromas: Maintenance of Tumor Control with Improved Hearing Preservation. Oral Presentation. 2012 American Society for Radiation Oncology Annual Meeting.
2. **Champ CE**, Ohri N, Mishra MV, Showalter TN, Dicker AP, Simone NL. Dietary Recommendations during Cancer Treatment: Consistently Inconsistent? *Nutrition and Cancer*. Poster Presentation. 2012 American Society for Radiation Oncology Annual Meeting.
3. **Champ CE**. The Impact of a Low-Carbohydrate Diet on Breast and Prostate Cancer Incidence, Treatment, and Outcome. Poster Presentation. 2012 Harvard Ancestral Health Symposium.
4. **Champ CE**, Mishra MV, Shi W, Siglin J, Werner-Wasik M, Andrews DW, Evans JJ. Flare Phenomenon in Trigeminal Schwannomas Treated with Fractionated Stereotactic Radiotherapy. Poster Presentation. 2012 Multidisciplinary Head and Neck Cancer Symposium.
5. **Champ CE**, Duffey KE, Anne R, Showalter TN, Heersink M, Iacono R, Mishra MV, Dicker AP, Rosenberg A, Simone NL. Feasibility of dietary intervention in a breast cancer population. Poster Presentation. 2012 National Interdisciplinary Breast Center Conference.
6. **Champ CE**, Hegarty SE, Shen X, Mishra MV, Dicker AP, Trabulsi EJ, Lallas CD, Gomella LG, Hyslop T, Showalter TN. Prognostic factors and outcomes after definitive treatment of female urethral cancer: A population-based analysis. Poster Presentation. 2012 American Radium Society Annual Meeting.
7. **Champ CE**, Siglin J, Shen X, Mishra MV, Andrews DW, Werner-Wasik M, Shi W. Can the Volume of Irradiated Normal Tissue Be Decreased in Patients with High Grade Gliomas? A Prospective Study Evaluating Changes in Radiation Treatment Volumes from Post-Operative to Same-Day Planning MRI. Poster Presentation. 2011 American Society for Radiation Oncology Annual Meeting.
8. **Champ CE**, Ohri N, Werner-Wasik M. Decrease of Morbidity and Cost of Care with Prophylactic Cranial Irradiation for Non-small Cell Lung Cancer. Poster Presentation. Poster Presentation. 2010 American Society for Radiation Oncology Annual Meeting.
9. Mishra MV, **Champ CE**, Keith SW, Showalter TN, Anne PR, Bar-Ad V. Conditional survival probabilities in patients with resected pancreatic carcinoma: A population-based analysis. Poster Presentation. 2012 ASCO Gastrointestinal Cancers Symposium.
10. Mishra MV, Shen X, Den RB, **Champ CE**, Dicker AP, Showalter TN. Patterns of aggressive therapy in elderly men with low-risk prostate cancer: A population-based analysis. Poster Presentation. 2012 American College of Radiation Oncology Annual Meeting.

11. Farach AM, **Champ CE**, Buzurovic I, Harrison AS, Keane WM, Machtay M. Chronic Dysphagia after IMRT/chemotherapy is Associated with Higher Mean Pharyngeal Constrictor Dose. Poster Presentation. 2009 American Society for Radiation Oncology Annual Meeting.
12. Whiton M, **Champ CE**, Kenyon L, Hyslop T, Perry A, Andrews D, Curran W, Dicker A, Wernicke A. Expression of Epidermal Growth Factor Receptor (EGFR) in Human Meningioma and Preliminary Clinical Results. Poster Presentation. 2008 American Society for Radiation Oncology Annual Meeting.
13. Fogh SE, **Champ CE**, Kubicek G, Intenzo C, Axelrod R, Keane W, Machtay M. Value of FDG-PET for detecting metastatic lesions in head and neck cancer. Poster Presentation. 2008 American Society for Clinical Oncology Annual Meeting.
14. Kubicek GJ, **Champ CE**, Wang F, Kimler BF, Girod D, Reddy E, Keane W, Intenzo C, Dusing RW, Machtay M. Role of FDG-PET for Staging In Head And Neck Cancer. Poster Presentation. 2008 American Society for Radiation Oncology Annual Meeting.
15. Shen X, Andrews DW, Evans JJ, Maltenfort MG, Fragoso R, **Champ CE**, Eldredge H, Witek M, Dicker AP, Werner-Wasik M. Fractionated Stereotactic Radiation Therapy Improves Symptoms from Cranial Neuropathies in Base of Skull Meningiomas: the Jefferson Experience. Poster Presentation. 2011 American Society for Radiation Oncology Annual Meeting.

SERVICE

Community Outreach

- 2011- CavemanDoctor.com website founder and editor, with weekly podcast ranked in the top 20 health shows in the US by iTunes, and top 3 in the UK and Australia
It covers complicated topics in health, nutrition, exercise, and cancer to over 4,000 daily readers worldwide, and as of May, 2016, the site had over 5.3 million visitors.
- 6/27/2012, 7/26/2012 Invited interview on *Get Better Wellness Talk Radio*
- 8/19/2012 Invited talk radio interview on *KTSE Sacramento: The Wide World of Health*
- 8/28/2012 Invited interview on the *Underground Wellness Show*
- 10/18/2012 Invited interview on *Ask the Low Carb Experts* for a listener QA on the ketogenic diet for cancer treatment
- 8/3/2013 Invited interview on *Fat2Fit Radio Show*
- 7/9/2014 Invited interview on *The KDKA Morning News* regarding diet and cancer
- 5/13/2015 Invited interview on *One Life Radio KFHR Talk Radio Dallas/Fort Worth*
- 10/21/2015 Invited interview on *One Life Radio KFHR Talk Radio Dallas/Fort Worth*