
PROFESSIONAL EXPERIENCE

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| Assistant Professor , <i>Brigham Young University</i> · Department of Microbiology and Molecular Biology | 2012-present |
| Research Instructor , <i>Washington University Medical School</i> · Department of Pathology and Immunology | 2009-2012 |
| Postdoctoral Research Fellow , <i>Washington University Medical School</i> · Department of Pathology and Immunology | 2005-2009 |

EDUCATION

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|---|------|
| Ph.D. in Cell and Structural Biology , <i>University of Illinois</i> | 2005 |
| M.S. in Zoology , <i>Brigham Young University</i> | 2000 |
| B.S. in Zoology , <i>Brigham Young University</i> | 1998 |

HONORS AND AWARDS

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| Member of the American Association of Cancer Researchers | 2015-present |
| John A. Widtsoe Scholarly Grant | 2015 |
| BYU Mentoring Environment Grant | 2014 & 2015 |
| BYU Teaching Enhancement Grant | 2014, 2015, 2016 |
| Member of the BYU Cancer Research Center | 2014-present |
| NIH Academic Research Enhancement Award (R15) | 2013-2016 |
| MMBIO Research Award – Highest Impact Factor Journal Publication | 2013 |
| MMBIO Research Award – New Grant from the National Institute of Health | 2013 |
| Midwest Regional Center of Excellence Career Development Award | 2009-2012 |
| NIH Ruth L. Kirschstein Postdoctoral Fellow | 2005-2008 |
| Member of the American Association of Immunologists | 2005-present |
| NIH Research Symposium Co-chair | 2004 |
| NIH Cell and Molecular Biology (CMB) training grant | 2002-2004 |
| Neuroscience Deans Fellow Scholarship | 1999-2000 |
| Member of the Golden Key Honor Society | 1998 |
| BYU Dean's List | Winter & Spring 1998 |
| BYU Office of Research and Creative Activities Research Scholarship | 1997 |
| BYU Trustees Scholarship (4 years tuition) | 1992-1993; 1995-1998 |

PUBLICATIONS

1. Johnston JD, Tuttle SC, Nelson MC, Bradshaw RK, Hoybjerg TG, Johnson JB, Kruman BA, Orton TS, Cook RB, Eggett DL, **Weber KS**. (2016) Evaporative Cooler Use Influences Temporal Indoor Relative Humidity but not Dust Mite Allergen Levels in Homes in a Semi-arid Climate *PLOS ONE* 11(1): e0147105. Doi:10.1371/journal.pone.0147105
2. Steck R, Hill S, Weigel E, **Weber KS**, Robison R, O'Neill K. (2015) Pharmacologic immunosuppression of mononuclear phagocyte phagocytosis by caffeine. *Pharmacology Research & Perspectives*. 3(6), e00180, doi: 10.1002/prp2.180
3. **Weber KS**, Jensen JL, Johnson SM (2015) Anticipation of personal genomics data enhances interest and learning environment in Genomics and Molecular Biology undergraduate courses. *PLOS ONE* 10(8) e0133486
4. Olsen DS, Goar WA, Nichols BA, Bailey KT, Christensen SL, Merriam KR, Reynolds PR, Wilson E, **Weber KS**, Bridgewater LC. (2015) Targeted mutation of nuclear bone morphogenetic protein 2 (nBMP2) impairs secondary immune response in a mouse model. *Biomed Research International*. Volume 2015, Article ID 975789, 13 pages. doi:10.1155/2015/975789
5. Persaud SP, Parker CR, **Weber KS**, and Allen PM. (2014) Intrinsic CD4⁺ T cell sensitivity and response to pathogen are set and sustained by avidity for thymic and peripheral self-pMHC. *Nature Immunology*. 15(3):266-274
6. Lynch JN, Donermeyer DL, **Weber KS**, Kranz DM, and Allen PM. (2013) Subtle changes in TCR α CDR1 profoundly increase the sensitivity of CD4 T cells. *Molecular Immunology*. 53(3):283-294.
7. Graw F, **Weber KS**, Allen PM and Perelson AS. (2012) Dynamics of CD4⁺ T cell responses against *Listeria monocytogenes*. *Journal of Immunology*. 189(11):5250-5256
8. **Weber KS**, Li QJ, Persaud SP, Campbell JD, Davis MD, and Allen PM. (2012) Distinct populations of CD4⁺ helper T cells mediate CD4⁺ and CD8⁺ memory responses to infection. *Proceedings of the National Academy of Sciences. U S A*. 109(24):9511-9516 **Faculty of 1000 recommended**
9. **Weber KS**, Hildner K, Murphy KM, and Allen PM. (2010) Trpm4 differentially regulates Th1 and Th2 function by altering calcium signaling and NFAT localization. *Journal of Immunology*. 185(5):2836-46
10. Persaud SP, Donermeyer DL, **Weber KS**, Kranz DM, and Allen PM. (2010) High-affinity T cell receptor differentiates cognate peptide-MHC and altered peptide ligands with distinct kinetics and thermodynamics. *Molecular Immunology*. 47(9):1793-801
11. Morley, SC, **Weber KS**, Kao H, and Allen PM. (2008) Protein kinase C- θ is required for efficient positive selection. *Journal of Immunology*. 181(7):4696-4708.
12. **Weber KS**, Miller MJ, and Allen PM. (2008) Th17 cells exhibit a distinct calcium profile from Th1 and Th2 cells and have Th1-like motility and NFAT nuclear localization. *Journal of Immunology*. 180(3):1442-1450 (Impact factor 5.36)

13. Donermeyer DL*, **Weber KS***, Kranz DM, and Allen PM. (2006) The study of high affinity TCRs reveals duality in T cell recognition of antigen: specificity and degeneracy. *Journal of Immunology*. 177(10):6911-6919. (*co-first authorship)
14. Richman SA, Healan SJ, **Weber KS**, Donermeyer DL, Dossett ML, Greenberg PD, Allen PM, and Kranz DM. (2006) Development of a novel strategy for engineering high-affinity proteins by yeast display. *Protein Engineering, Design, and Selection*. 19(6):255-264.
15. **Weber KS**, Donermeyer DL, Allen PM, and Kranz DM. (2005) Class II-restricted T cell receptor engineered in vitro for higher affinity retains peptide specificity and function. *Proceedings of the National Academy of Sciences. U S A*. 102(52):19033-19038.
16. Lephart ED, West TW, **Weber KS**, Rhees RW, Setchell, KD, Adlercreutz H, and Lund TD. (2002) Neurobehavioral effects of dietary soy phytoestrogens. *Neurotoxicology and Teratology* 24, 5-16.
17. Roper RJ, Weis JJ, McCracken BA, Green CB, Ma Y, **Weber KS**, Fairbairn D, Butterfield RJ, Potter MR, Zachary JF, Doerge RW and Teuscher C. (2001) Genetic control of susceptibility to experimental Lyme arthritis is polygenic and exhibits consistent linkage to multiple loci on chromosome 5 in four independent mouse crosses. *Genes and Immunity* 2, 388-397.
18. **Weber KS**, Setchell KD, Stocco DM and Lephart ED. (2001) Dietary soy-phytoestrogens decrease testosterone levels and prostate weight, without altering LH, prostate 5 α -reductase or testicular StAR levels in adult male Sprague-Dawley rats. *Journal of Endocrinology* 170, 591-9.
19. **Weber KS**, Setchell KD and Lephart ED. (2001) Maternal and perinatal brain aromatase: Effects of dietary soy phytoestrogens. *Developmental Brain Research* 126, 217-221.
20. Lephart ED, Call SB, Rhees RW, Jacobson NA, **Weber KS**, Bledsoe J and Teuscher C. (2001) Neuroendocrine regulation of sexually dimorphic brain structure and associated sexual behavior in male rats is genetically controlled. *Biology of Reproduction* 64, 571-578.
21. Lephart ED, Thompson JM, Setchell KD, Adlercreutz H and **Weber KS**. (2000) Phytoestrogens decrease brain calcium-binding proteins but do not alter hypothalamic androgen metabolizing enzymes in adult male rats. *Brain Research* 859, 123-131.
22. **Weber KS**, Jacobson NA, Setchell KD and Lephart ED. (1999) Brain aromatase and 5 alpha-reductase, regulatory behaviors and testosterone levels in adult rats on phytoestrogen diets. *Proceedings of the Society for Experimental Biology and Medicine* 221(2), 131-135.

BOOK CHAPTERS

1. Stone JD, Yin Y, Mo M, **Weber KS**, Donermeyer DL, Allen PM, Mariuzza RA, and Kranz DM. (2012). Engineering High-Affinity T Cell Receptor/ Cytokine Fusions for Therapeutic Targeting, Protein Engineering, Prof. Pravin Kaumaya (Ed.), ISBN: 978-953-51-0037-9, InTech,

MANUSCRIPTS SUBMITTED OR IN PREPARATION

1. In preparation: Johnston JD, Kruman BA, Nelson MC, Hoyberg TG, Meyers S, Cook RA, **Weber KS**. Association between temporal variation in indoor humidity and endotoxin prevalence in a semi arid climate.
2. In preparation: Kempton CE, **Weber KS**, and Johnson SM. Transforming undergraduate laboratory students into independent researchers.

COMMENTARIES ABOUT MY WORK (2012 – PRESENT)

1. Nature Immunology News and Views feature on my recent publication March 2014
http://www.nature.com/ni/journal/v15/n3/full/ni.2832.html?WT.ec_id=NI-201403
2. BYU Home page feature on my recent publication and work. February 13th 2014
<http://news.byu.edu/archive14-feb-helpercells.aspx>
3. KSL News Radio story about my recent publication and work. February 18th 2014
http://img.ksl.com/audio/2014_02_14_scott_and_maria3.mp3 Starts at minute 34:14
4. BYU ElevenNews at Noon feature on my lab and work. February 20th 2014
<http://elevennews.byu.edu/2014/02/helper-t-cells/>

GRANT FUNDING (2012 – PRESENT)

External grant funding

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| 1R15AI107753-01 | |
| NIH/NIAID | 6/1/13-5/31/16 |
| NIH Academic Research Enhancement Award (R15) | \$449,087 |
| The role of antigenic strength in the primary and memory responses of pathogen specific CD4 ⁺ T cells | |
| U54 AI057160 | 8/1/09-2/28/12 |
| NIH/MRCE | \$350,617 |
| MRCE Career Development Award in Biodefense and Emerging Infectious Diseases Research | |
| Determining optimal ligand affinity for generating protective CD4 ⁺ T cell responses to <i>Listeria monocytogenes</i> . | |

Internal grant funding

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| BYU College of Life Sciences Teaching Enhancement Grant | 2016 |
| Integrating microbiome metagenomic analysis into Immunology, Molecular Biology, and Genomics courses to improve student learning | \$8,700 |
| John A. Widtsoe Scholarly Grant | 2015 |
| Engineering chimeric antigen receptors to combat infectious disease. | \$25,000 |
| BYU Mentoring Environment Grant | 2015 |
| Combating infectious disease with enhanced T cell memory. | \$20,000 |

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| BYU College of Life Sciences Teaching Enhancement Grant | 2015 |
| Printing and integrating novel 3D molecular models to enhance learning in Molecular Biology courses. | \$2,000 |
| BYU Mentoring Environment Grant | 2014 |
| Improving the memory response of pathogen specific helper T cells. | \$20,000 |
| BYU College of Life Sciences Teaching Enhancement Grant | 2014 |
| Integrating personal genome testing into genomics courses to improve student learning | \$8,500 |

TEACHING EXPERIENCE

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|-----------------|---|
| MMBIO 441 | Advanced Molecular Biology – Winter 2013, Winter 2014, Winter 2015 |
| MMBIO 442 | Advanced Molecular Biology lab – Winter 2014, Winter 2015, Winter 2016 |
| MMBIO 463/551R | Immunology – Winter 2016 |
| MMBIO 494R/694R | Mentored Research – Taught each semester from 2012 - present |
| MMBIO 522 | Flow Cytometry - Fall 2014, Fall 2015, Fall 2016 |
| MMBIO 514 | Advanced Immunology – Fall 2016 |

GUEST LECTURES / TEACHING SERVICE (2012 – PRESENT)

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| Winter 2016 | MMBIO 121 – General Biology; health and disease | Taught 2 lectures |
| Fall 2015 | MMBIO 425 – Diagnostic techniques | Taught 1 lecture |
| Fall 2015 | MMBIO 661 – Molecular Genetics | Taught 1 lecture |
| Fall 2015 | MMBIO 390R – Cell cycle | Taught 1 lecture |
| Fall 2014 | MMBIO 624 – Microbial Pathogenesis | Taught 3 lectures |
| Fall 2014 | LFSCI 101 – Freshmen Life Sciences Seminar | Guest lecture |
| Win 2014 | MMBIO 463 – Immunology. | Taught 2 lectures |
| Fall 2013 | MMBIO 463 – Immunology. | Evaluated scientific presentations |
| Fall 2013 | MMBIO 441 – Advanced Molecular Biology | Guest lecture |
| Sum 2013 | MMBIO New Student Orientation | Taught new MMBIO student lecture |
| Win 2013 | MMBIO 463 – Immunology. | Taught 3 lectures |
| Fall 2012 | MMBIO 463 – Immunology. | Evaluated scientific presentations |
| Fall 2012 | MMBIO 624 – Microbial Pathogenesis | Taught 3 lectures |
| Fall 2012 | LFSCI 101 – Freshmen Life Sciences Seminar | Guest lecture |

CITIZENSHIP / SERVICE (2012 – PRESENT)

- 2016 – Taught class on unlocking the secrets of DNA at UVU Empowering your Future conference
- 2015 – Member of the College Curriculum Committee (2015-present)
- 2015 – Member of the MMBIO executive committee (2015-present)
- 2015 – Chair of the MMBIO Undergraduate Committee (2015-present)

2015 – Reviewed BYU Graduate Studies Fellowship Proposals
 2014 – Reviewed ORCA grant submissions for the BYU College of Life Sciences
 2014 – Helped organize the MMBIO 494R class trip to Yellowstone
 2014 – Member of Research Instrument Core committee
 2014 – Helped the MMBIO club and Chemical engineering at Provo Kids Science Palooza
 2013 - Initiated and organized the MMBIO Research Lab Lunch (8 week annual event)
 2013 – Reviewed ORCA grant submissions for the BYU College of Life Sciences
 2012 - Member of the MMBIO Undergraduate Committee (2012-2015)

PRESENTATIONS AT LOCAL, REGIONAL, AND NATIONAL MEETINGS

1. Vaden K and **Weber KS**. Determining the optimal TCR:pMHC avidity for CD4⁺ T cell memory generation. Midwinter Conference of Immunologists. January 23-26, 2016. *Asilomar California*.
2. Crandall J, Vaden K, O'Neill K, and **Weber KS**. Sequencing an antibody specific for an epitope overexpressed on cancer cells. 10th Annual Utah Conference on Undergraduate Research. February 19th 2016. *Salt Lake City. Utah*
3. Hamblin G, Freitas C, Steadman N, Williams K, and **Weber KS**. Calcium Signaling in Primary and Secondary Responses of Listeria specific T helper cells. 10th Annual Utah Conference on Undergraduate Research. February 19th 2016. *Salt Lake City. Utah*
4. Myers S, Johnson D, Anderson B, Ehlers K, Orton T, Ballard B, Persuad S, **Weber KS**. Engineering High Affinity Class II TCRs Specific for Listeria monocytogenes. 10th Annual Utah Conference on Undergraduate Research. February 19th 2016. *Salt Lake City. Utah*
5. Hancock J, Cook M, Grose JH, Laura Bridgewater LC, and **Weber KS**. Role of PAS kinase and metabolism on immune cells. Autumn Immunology Conference 44th Annual Meeting. November 20-23rd 2015. *Chicago Illinois* Winner of an AAI Undergraduate Award and a case prize because John's abstract was scored as one of the best of undergraduates presenting.
6. Myers S Johnson D, Anderson B, Ehlers K, Orton T, Ballard B, Persuad S, **Weber KS**. Engineering High Affinity Class II TCRs Specific for Listeria monocytogenes. Autumn Immunology Conference 44th Annual Meeting. November 20-23rd 2015. *Chicago Illinois*
7. Hamblin G, Freitas C, Steadman N, Williams K, and **Weber KS**. Calcium Signaling in Primary and Secondary Responses of Listeria specific T helper cells. Autumn Immunology Conference 44th Annual Meeting. November 20-23rd 2015. *Chicago Illinois* Winner of an AAI Undergraduate Award and a cash prize because Garrett's abstract was scored as one of the best of undergraduates presenting.
8. **Weber KS**. Relationship of T cell receptor affinity and T cell function. BYU Microbiology and Molecular Biology Faculty Research Lunch Seminar. June 17th 2015 *Provo Utah*
9. **Weber KS**. Engineering the Immune System to Target Cancer Cells. BYU Cancer Research Seminar. May 21st 2015 *Provo Utah*

10. Johnson DK, Persaud SP, **Weber KS**. Determining optimal TCR:pMHC avidity for CD4⁺ T cell memory generation. 2015 Keystone Symposia on T cell regulation and effector function. March 29th - April 3rd 2015 *Snowbird Utah*
11. Anderson BE, Ehlers KB, Johnson DK, Persaud SP, and **Weber KS**. Engineering High Affinity T-Cell Receptors Specific for *Listeria monocytogenes*. 9th Annual Utah Conference on Undergraduate Research. February 27th 2015. *St. George Utah*
12. Hoybjerg T, Christiansen M, Myers S, Kruman B, Johnston JD, and **Weber KS**. Development of sensitive Limulus Amebocyte Lysate assay to quantify endotoxin levels in Utah homes with and without swamp coolers. 9th Annual Utah Conference on Undergraduate Research. February 27th 2015. *St. George Utah*
13. Christiansen M, Hoybjerg T, Cook R, Johnston JD, and **Weber KS**. Comparison of dust mite antigen levels in Utah homes with swamp coolers versus homes with air conditioning. 9th Annual Utah Conference on Undergraduate Research. February 27th 2015. *St. George Utah*
14. **Weber KS**. Helper T cell role in immunity to infection. BYU Microbiology and Molecular Chemistry and Biochemistry Department Seminar. February 19th 2015 *Provo Utah*
15. Freitas CT[†], Williams KR, and **Weber KS**. Calcium Signaling in T helper cell Primary and Secondary Responses. Midwinter Conference of Immunologists. January 24-27 2015. *Asilomar California*.
16. Johnson D[†], Anderson BE, Ehlers K, and **Weber KS**. Engineering High Affinity T-Cell Receptors Specific for *Listeria monocytogenes*. Midwinter Conference of Immunologists. January 24-27 2015. *Asilomar California*.
17. **Weber KS**. Helper T cell role in immunity to infection. BYU Microbiology and Molecular Biology Department Seminar. January 22nd 2015 *Provo Utah*
18. **Weber KS**. Helper T cell role in immunity to infection. BYU speed networking Seminar. August 13th 2014 *Provo Utah*
19. **Weber KS**. Relationship of T cell receptor affinity and T cell function. BYU Microbiology and Molecular Biology Faculty Research Lunch Seminar. June 23rd 2014 *Provo Utah*
20. Hancock J, Ehlers KB, Orton T, Persaud SP, and **Weber KS**. Engineering a Pathogen Specific Single Chain T-Cell Receptor for *Listeria monocytogenes*. American Society for Microbiology Intermountain Branch Meeting. March 8th 2014. *Provo Utah*
21. Tellez CM, Williams KR, Weigel E, O'Neill KL, and **Weber KS**. Macrophage polarization by necrotic and apoptotic cancer cells. ASM Branch Meeting. March 8th 2014. *Provo Utah*
22. Barker B, Anderson BE, Orton T, Persaud SP, and **Weber KS**. Engineering a Stabilized Single Chain T-Cell Receptor called LLO118 for use in Generating High Affinity T cell Receptors. American Society for Microbiology Intermountain Branch Meeting. March 8 2014. *Provo Utah*
23. Campbell E, Johnson J, Christiansen M, Johnston JD, and **Weber KS**. Development of sensitive ELISA and qPCR assays to quantitate levels of dust mite antigens in homes in Utah with and without swamp coolers. ASM Intermountain Branch Meeting. March 8th 2014. *Provo Utah*

24. Mayo, JL, Nichols BA, Olson DS, Corder RD, Hancock CR, Weber KS, Wilson E, Edwards JG, Barrow JR, and Bridgewater LC. The nBMP2 mutant mouse shows defects in intracellular calcium transport-regulated pathways. Southwest Regional Meeting of the Society for Developmental Biology. March 7th-8th 2014 Aurora Colorado
25. Hancock J, Ehlers KB, Orton T, Persaud SP, and **Weber KS**. Engineering a Pathogen Specific Single Chain T-Cell Receptor for *Listeria monocytogenes*. 8th Annual Utah Conference on Undergraduate Research. February 28th 2014. *Provo Utah*
26. Wahlquist B, Kesler D, **Weber KS**, and Johnston JD. The effect of evaporative coolers on indoor relative humidity and dust mite allergens in Utah homes. 8th Annual Utah Conference on Undergraduate Research. February 28th 2014. *Provo Utah*
27. Williams KR, Tellez CM, Lee EJ, Weagel E⁺, O'Neill KL, and **Weber KS**. Macrophage polarization by necrotic and apoptotic cancer cells. BYU Presidential Leadership Council Meeting. February 27th 2014. *Provo Utah*
28. **Weber KS**. Helper T cell role in immunity to infection. BYU speed networking Seminar. Dec 6th 2013 *Provo Utah*
29. Anderson BE, Ehlers KB, Persaud SP, and **Weber KS**. Engineering Pathogen Specific Single Chain T Cell Receptors. Autumn Immunology Conference. Nov 22-25th 2013. *Chicago Illinois*
30. **Weber KS**. Helper T Cell Role in Immunity to Infection. Microbiology and Molecular Biology Graduate Student Orientation. Brigham Young University. September 5th 2013. *Provo Utah*
31. **Weber KS**. The Role of Antigenic Strength in the Primary and Memory Responses of Pathogen Specific CD4⁺ T Cells. LDS Life Science Research Symposium. July 19th 2013. *SLC Utah*
32. **Weber KS**. Relationship of T cell receptor affinity and T cell function. BYU Microbiology and Molecular Biology Faculty Research Lunch Seminar. August 14th 2013 *Provo Utah*
33. Persaud SP, **Weber KS**, and Allen PM. TCR avidity for thymic and peripheral self peptide-MHC sets and sustains intrinsic CD4⁺ T cell sensitivity. The American Association of Immunologists 100th Annual Meeting. May 3-7 2013. *Honolulu Hawaii*
34. Anderson BE, Barker B, Persaud SP, and **Weber KS**. Engineering Pathogen Specific High Affinity TCRs. BYU Presidential Leadership Council Meeting. Feb 28th 2013. *Provo Utah*
35. Anderson BE, Barker B, Persaud SP, and **Weber KS**. Engineering Pathogen Specific High Affinity T-cell Receptors. 7th Annual Utah Conference on Undergraduate Research. February 22nd 2013. *Logan Utah*
36. **Weber KS**. Helper T Cell Role in Immunity to Infection. Microbiology and Molecular Biology Graduate Student Retreat. Brigham Young University. August 23rd 2012 *Provo Utah*
37. Marshall E, **Weber KS**, Donermeyer D, Allen PM, and Kranz DM. Examining the role of T cell co-receptors CD4 and CD8 in T cell activation by using high-affinity T cell receptors. The American Association of Immunologists 99th Annual Meeting. May 4-8 2012 *Boston Mass*

38. **Weber KS**, Li QJ, Persuad SP, Campbell JD, Davis MM, and Allen PM. Distinct populations of CD4⁺ helper T cells generate CD4 and CD8 memory responses to infection. The American Association of Immunologists 98th Annual Meeting. May 13-17 2011. *San Francisco California*
39. Lynch JN, Donermeyer D, **Weber KS** and Allen PM. Increased K_{on} of TCR-pMHC interaction influences activation and development of CD4⁺ T cells. The American Association of Immunologists 98th Annual Meeting. May 13-17 2011. *San Francisco California*
40. **Weber KS**, Li QJ, Persuad SP, Campbell JD, Davis MM, and Allen PM. Distinct populations of CD4⁺ helper T cells generate CD4 and CD8 memory responses to infection. 7th Annual National Regional Center of Excellence Meeting. April 3-5 2011. *Denver Colorado*
41. **Weber KS**, Li QJ, Persuad SP, Campbell JD, Davis MM, and Allen PM. Distinct populations of CD4⁺ helper T cells generate CD4 and CD8 memory responses to infection. Immunology Program Retreat. September 16 & 17 2011. *Potosi Missouri*
42. Lynch JN, Donermeyer D, **Weber KS** and Allen PM. Increased K_{on} of TCR-pMHC interaction influences activation and development of CD4⁺ T cells. Immunology Program Retreat. September 16 & 17 2011. *Potosi Missouri*
43. Persuad SP, **Weber KS** and Allen PM. Functional Consequences of CD4⁺ T Cell Receptor Ligation in the Immune Response to *Listeria monocytogenes*. Immunology Program Retreat. September 16 & 17 2011. *Potosi Missouri*
44. **Weber KS**, Racz JL, and Allen PM. Determining Optimal Ligand Affinity for Generating Protective CD4 T Cell Responses to *Listeria Monocytogenes*. 6th Annual National Regional Center of Excellence Meeting. April 11-13 2010. *Las Vegas Nevada*
45. Lynch JN, Donermeyer D, **Weber KS** and Allen PM. Increased K_{on} of TCR-pMHC interaction influences activation and development of CD4⁺ T cells. Immunology Program Retreat. September 24 & 25 2010. *Potosi Missouri*
46. Persuad SP, **Weber KS** and Allen PM. Functional Consequences of CD4⁺ T Cell Receptor Ligation in the Immune Response to *Listeria monocytogenes*. Immunology Program Retreat. September 24 & 25 2010. *Potosi Missouri*
47. **Weber KS**, Racz JL, and Allen PM. CD4⁺ T Cell Response to Low Affinity Antigen is Sufficient for Protective Response to *Listeria Monocytogenes*. Immunology Program Retreat. September 25 & 26 2009. *Potosi Missouri*
48. **Weber KS**, Persuad SP, Kranz DM, and Allen PM. Autoreactivity of high affinity TCR dramatically influenced by APC density. Immune Response Consortium meeting July 2008 *Boston Massachusetts*.
49. **Weber KS**, Miller MJ, and Allen PM. Th17 cells exhibit a distinct calcium profile from Th1 and Th2 cells and have Th1-like motility. 2008 Keystone Symposia on Lymphocyte Activation and Signaling. *Snowbird Utah*
50. **Weber KS**, Miller MJ, and Allen PM. Th17 cells exhibit a distinct calcium profile from Th1 and Th2 cells and have Th1-like motility. Immunology Program Retreat. September 28 & 29 2007. *Potosi Missouri*

51. Cemerski, S, **Weber KS**, Allen PM, and Shaw AS. Is ligand quality encoded in calcium oscillations? Immunology Program Retreat. September 15 & 16 2006. *Potosi Missouri*
52. Jones LL, Brophy SE, **Weber KS**, Holler PD, Bankovich AJ, Colf LA, Garcia KC, Kranz DM. Studies of antigen cross-reactivity by high-affinity T cell receptors. The 93rd American Association of Immunologists annual meeting. May 12-16 2006 *Boston Massachusetts*
53. Donermeyer DL, **KS Weber**, TJ Brett, DM Kranz, DH Fremont, PM Allen (2005) Functional and structural studies of a high affinity TCR reveal a signaling threshold for T cells and a mechanism for broadened peptide fine specificity. The 92nd American Association of Immunologists annual meeting. March 31-April 5 2005 *San Diego California*
54. Richman SA, Donermeyer DL, **Weber KS**, Fleischauer J, Allen PM, and Kranz DM. In Vitro Engineering of TCRs with Higher Affinity for a Tumor-Associated pepMHC. Cell and Molecular Biology and Molecular Biophysics Research Symposium. November 4th, 2004. *Champaign-Urbana Illinois*
55. **Weber KS**, Donermeyer DL, Allen PM, and Kranz DM. Engineering stabilized and higher affinity mutants of the Class II restricted TCR 3.L2 by yeast display. International Congress of Immunology 12th annual meeting. July 18-23, 2004. *Montreal Canada*
56. Richman SA, **Weber KS**, Donermeyer DL, Allen PM, and Kranz DM. In Vitro Engineering of TCRs with higher affinity for a tumor-associated pepMHC. International Congress of Immunology 12th annual meeting. July 18-23, 2004. *Montreal Canada*
57. **Weber KS**, Donermeyer DL, Allen PM, and Kranz DM. Engineering stabilized and higher affinity mutants of the Class II restricted TCR 3.L2 by yeast display. The American Association of Immunologists annual meeting. May 6-10, 2003. *Denver Colorado*
58. **Weber KS**, Donermeyer DL, Allen PM, and Kranz DM. Engineering stabilized and higher affinity mutants of the Class II restricted TCR 3.L2 by yeast display. Autumn Immunology Conference November, 2003. *Chicago Illinois*
59. **Weber KS**, Donermeyer DL, Allen PM, and Kranz DM. Engineering stabilized and affinity mutants of a T cell receptor for structure and function studies. Cell and Molecular Biology and Molecular Biophysics Research Symposium. October 24th, 2003. *Champaign-Urbana Illinois*
60. **Weber KS**, Donermeyer DL, Allen PM, and Kranz DM. Engineering stabilized and higher affinity mutants of the Class II restricted TCR 3.L2 by yeast display. Autumn Immunology Conference November 23-25, 2002. *Chicago Illinois*
61. **Weber KS**, Donermeyer DL, Allen PM, and Kranz DM. Engineering stabilized mutants of a T cell receptor for structure and function studies. Cell and Molecular Biology and Molecular Biophysics Research Symposium. October 25th, 2002. *Champaign-Urbana Illinois*
62. **Weber KS**, Setchell, KD, and Lephart ED. Maternal and perinatal brain aromatase: Effects of dietary soy phytoestrogens. Endocrine Society's 82 meeting. June 21-24, 2000. *Toronto Canada*
63. **Weber KS**, Setchell, KD, and Lephart ED. Phytoestrogens alter reproductive function in adult male Sprague-Dawley rats. Endocrine Society's 81st annual meeting. June 12-15, 1999 *San Diego California*