

**CURRICULUM VITAE**  
**KAREN CEROSALETTI, PHD**  
**Research Assistant Member**  
**Translational Research Program**  
**Benaroya Research Institute**

**Personal Data:**

Place of Birth: Oneonta New York, USA; Citizenship: USA

**Education:**

Undergraduate:

1978-1982 BA Biology, summa cum laude; College of Saint Rose, Albany, New York

Graduate:

1985-1990 MS, PhD Immunology; University of Rochester School of Medicine and Dentistry, Rochester, New York; Advisor, John G. Frelinger, PhD

**Postgraduate Training:**

1990-1995 Molecular Medicine, Fred Hutchinson Cancer Research Center, Seattle, WA; Advisor, R. E. Keith Fournier, PhD

**Faculty and Academic Appointments**

2016-present Research Associate Member, Translational Research Program Benaroya Research Institute at Virginia Mason, Seattle, Washington

2011-present Manager, Genotyping Core Laboratory, Benaroya Research Institute at Virginia Mason, Seattle, Washington

2010-present Research Assistant Member, Translational Research Program, Benaroya Research Institute at Virginia Mason, Seattle, Washington

2002-2005 Affiliate Instructor, Department of Immunology, University of Washington School of Medicine, Seattle, Washington

2000-2009 Staff Scientist, Molecular Genetics, Benaroya Research Institute at Virginia Mason (formerly Virginia Mason Research Center), Seattle, Washington

1995-2002 Research Associate, Department of Immunology, University of Washington School of Medicine, Seattle, Washington

1995-2000 Research Associate, Molecular Genetics, Virginia Mason Research Center, Seattle, Washington

1990-1995 Postdoctoral Research Associate, Molecular Medicine, Fred Hutchinson Cancer Research Center, Seattle, Washington

1986-1990 Predoctoral Trainee, Program in Immunology, University of Rochester School of Medicine and Dentistry, Rochester, New York

1985-1986 Predoctoral Trainee, Department of Microbiology and Immunology, University of North Carolina, Chapel Hill, North Carolina

1982-1985 Research Technician, Infectious Diseases, Monroe Community Hospital and Pediatric Infectious Diseases, Strong Memorial Hospital, Rochester, New York

1981 National Science Foundation Undergraduate Research Fellow, Department of Biology, Vassar College, Poughkeepsie, New York

**Honors and Awards**

1992-1994 American Cancer Society Postdoctoral Fellowship

1991 Melville A. Hare Award for Excellence in Research

1988-1989 George M. and Agnes Messersmith Predoctoral Fellowship

1988 Microbiology and Immunology Alumni Distinguished Teaching Award

1986-1990 National Institutes of Health Predoctoral Trainee in Immunology, 1986-1988, 1989-1990  
 1981 National Science Foundation Undergraduate Research Fellowship

### **Professional Organizations**

American Society of Human Genetics  
 Federation of Clinical Immunology Societies (FOCIS)  
 American Association of Immunologists  
 American Association for the Advancement of Science  
 American Diabetes Association  
 Immunology of Diabetes Society

### **Special National and Local Responsibilities**

2019 Speaker, Lupus Foundation of America Patient Symposium, Seattle WA  
 2017 Speaker, Type 1 Diabetes and Immunology Poll Symposium, University of Washington Diabetes Institute, Seattle WA  
 2017 Speaker, Lupus Foundation of America Patient Symposium, Seattle WA  
 2016 Speaker, Rheumatology Grand Rounds, University of Washington, Seattle WA  
 2015 Speaker, BRI Translational Biorepository Symposium, Research Update: Your Contribution to Scientific Discovery, Seattle WA  
 2015 BRI Research Award Management ad hoc committee  
 2014 Speaker, BRI Translational Research Program, National Purchasing Partners Tour, Seattle WA  
 2014 Speaker, Advances in Lupus Research and Complimentary Therapies, Seattle WA  
 2012-present Judge, American Society of Human Genetics DNA Day Essay Contest  
 2012-present Speaker, BRI Science Friday  
 2012, 2015 Speaker, Seattle Autoimmunity Day, Seattle WA  
 2011-2013 Workshop presenter, Expanding Your Horizons High School Conference for young women in STEM fields, Bellevue WA  
 2010-2013 Established and supervised the BRI electronic journal access program; hired and supervised electronic librarians  
 2010-2011 Speaker, Northwest Association for Biomedical Research, Collaborations to Understand Research and Ethics, Seattle WA  
 2008-present Ad hoc Reviewer: PLOS One, Genome Medicine, Diabetes Care, Journal of Immunology, Annals of Rheumatic Diseases, Diabetes, BioMed Central, Human Molecular Genetics, Clinical and Experimental Immunology, Proceedings of the National Academy of Sciences, Molecular and Cellular Biology, Human Mutation, International Immunology, Clinical Rheumatology  
 2003-2005 Presenter, elementary school science fairs, Seattle WA

### **Scientific Courses**

2011 Summer Institute in Statistical Genetics University of Washington  
 2009 FOCIS Advanced Course in Immunology

### **Bibliography**

1. Wang T, Marken J, Chen J, Tran VB, Li QZ, Li M, **Cerosaletti K**, Elkon KB, Zeng X, Giltiay NV. High TLR7 Expression Drives the Expansion of CD19+CD24hiCD38hi Transitional B Cells and Autoantibody Production in SLE Patients. *Front Immunol.* 2019 Jun 4;10:1243. doi: 10.3389/fimmu.2019.01243. eCollection 2019. PubMed PMID: PMID: 31231380.

2. Ahmed S\*, **Cerosaletti K\***, James E, Long SA, Mannering S, Speake C, Nakayama M, Tree T, Roep BO, Herold KC, Brusko TM. Standardizing T-Cell Biomarkers in Type 1 Diabetes: Challenges and Recent Advances. *Diabetes*. 2019 Jul;68(7):1366-1379. doi: 10.2337/db19-0119. PubMed PMID: 31221801. \*Co-first authors
3. Habib T, Long SA, Samuels PL, Brahmandam A, Tatum M, Funk A, Hocking AM, **Cerosaletti K**, Mason MT, Whalen E, Rawlings DJ, Greenbaum C, Buckner JH; Type 1 Diabetes TrialNet Study Group. Dynamic Immune Phenotypes of B and T Helper Cells Mark Distinct Stages of T1D Progression. *Diabetes*. 2019 Mar 20. pii: db181081. doi: 10.2337/db18-1081. [Epub ahead of print]. PubMed PMID: 30894366.
4. Johnson MB, **Cerosaletti K**, Flanagan SE, Buckner JH. Genetic Mechanisms Highlight Shared Pathways for the Pathogenesis of Polygenic Type 1 Diabetes and Monogenic Autoimmune Diabetes. *Curr Diab Rep*. 2019 Mar 19;19(5):20. doi: 10.1007/s11892-019-1141-1146. PubMed PMID: 30888520.
5. **Cerosaletti K**, Hao W, Greenbaum CJ. Genetics coming of age in type 1 diabetes. *Diabetes Care* 2019;42(2):189-191. PubMed PMID: 30665964. Erratum *Diabetes Care*. 2019 Mar 18. pii: dc19er05. doi: 10.2337/dc19-er05. [Epub ahead of print]. PubMed PMID: 30885949.
6. Winters A, Bahnson HT, Ruczinski I, Boorgula MP, Malley C, Keramati AR, Chavan S, Larson D, **Cerosaletti K**, Sayre PH, Plaut M, Du Toit G, Lack G, Barnes KC, Nepom GT, Mathias RA; Immune Tolerance Network LEAP Study Team. The MALT1 locus and peanut avoidance in the risk for peanut allergy. *J Allergy Clin Immunol*. 2019 Feb 27. pii: S0091-6749(19)30279-9. doi: 10.1016/j.jaci.2019.02.016. [Epub ahead of print]. PubMed PMID: 30825465.
7. Gorman JA, Hundhausen C, Kinsman M, Arkatkar T, Allenspach EJ, Clough C, West SE, Thomas K, Eken A, Khim S, Hale M, Oukka M, Jackson SW, **Cerosaletti K**, Buckner JH, Rawlings DJ. The TYK2-P1104A Autoimmune Protective Variant Limits Coordinate Signals Required to Generate Specialized T Cell Subsets. *Front Immunol*. 2019 Jan 25;10:44. doi: 10.3389/fimmu.2019.00044. eCollection 2019. PubMed PMID: 30740104.
8. Culina S, Lalanne AI, Afonso G, **Cerosaletti K**, Pinto S, Sebastiani G, Kuranda K, Nigi L, Eugster A, Østerbye T, Maugein A, McLaren JE, Ladell K, Larger E, Beressi JP, Lissina A, Appay V, Davidson HW, Buus S, Price DA, Kuhn M, Bonifacio E, Battaglia M, Caillat-Zucman S, Dotta F, Scharfmann R, Kyewski B, Mallone R; ImMaDiab Study Group: Carel JC, Tubiana-Rufi N, Martinerie L, Poidvin A, JacqzAigrain E, Corvez L, Berruer V, Gautier JF, Baz B, Haddadi N, Andreelli F, Amouyal C, Jaqueminet S, Bourron O, Dasque E, Hartemann A, Lemoine-Yazigi A, Dubois-Laforgue D, Travert F, Feron M, Rolland P, Vignali V, Marre M, Chanson P, Briet C, Guillausseau PJ, Ait-Bachir L, Collet C, Beziaud F, Desforgues-Bullet V, Petit-Aubert G, Christin-Maitre S, Fève B, Vatier C, Bourcigaux N, Lautridou C, Lahlou N, Bakouboula P, Elie C, Morel H, Treluyer JM, Gagnerault MC, Maillard C, Jones A. Islet-reactive CD8+ T cell frequencies in the pancreas, but not in blood, distinguish type 1 diabetic patients from healthy donors. *Sci Immunol*. 2018 Feb 2;3(20). pii: eaao4013. doi: 10.1126/sciimmunol.aao4013. PMID: 29429978
9. Schwedhelm K, Thorpe J, Murray SA, Gavin M, Speake C, Greenbaum C, **Cerosaletti K**, Buckner J, Alice Long S. Attenuated IL-2R signaling in CD4 memory T cells of T1D subjects is intrinsic and dependent on activation state. *Clin Immunol*. 2017 Aug; 181:67-74. PMID: 28566371

10. **Cerosaletti K**, Barahmand-Pour-Whitman F, Yang J, DeBerg HA, Dufort MJ, Murray SA, Israelsson E, Speake C, Gersuk VH, Eddy JA, Reijonen H, Greenbaum CJ, Kwok WW, Wambre E, Prlic M, Gottardo R, Nepom GT, Linsley PS. Single-Cell RNA Sequencing Reveals Expanded Clones of Islet Antigen-Reactive CD4+ T Cells in Peripheral Blood of Subjects with Type 1 Diabetes. *J Immunol*. 2017 Jul 1;199(1):323-335. PMID: 28566371
11. Gorman JA, Hundhausen C, Errett JS, Stone AE, Allenspach EJ, Ge Y, Arkatkar T, Clough C, Dai X, Khim S, Pestal K, Liggitt D, **Cerosaletti K**, Stetson DB, James RG, Oukka M, Concannon P, Gale M Jr, Buckner JH, Rawlings DJ. The A946T variant of the RNA sensor IFIH1 mediates an interferon program that limits viral infection but increases the risk for autoimmunity. *Nat Immunol*. 2017 Jul; 18(7):744-752. PMID: 28553952
12. Hundhausen C, Roth A, Whalen E, Chen J, Schneider A, Long A, Wei S, Rawlings R, Kinsman M, Evank SP, Wight T, Greenbaum CJ, **Cerosaletti K**, Buckner JH. Enhanced T cell responses to IL-6 in type 1 diabetes are associated with early clinical disease and increased IL-6 receptor expression. *Sci Transl Med*. 2016 Sept 14;8(356):356ra119. PMID: 27629486
13. Dam EM, Habib T, Chen J, Funk A, Glukhova V, Davis-Pickett M, Wei S, James R, Buckner JH, **Cerosaletti K**. The BANK1 SLE-risk variants are associated with alterations in peripheral B cell signaling and development in humans. *Clin Immunol*. 2016 pii: S1521-6616(16)30161-9. PMID: 27816669
14. Kijas AW, Lim YC, Bolderson E, **Cerosaletti K**, Gatei M, Jakob B, Tobias F, Taucher-Scholz G, Gueven N, Oakley G, Concannon P, Wolvetang E, Khanna KK, Wiesmuller L, Lavin MF. ATM-dependent phosphorylation of MRE11 controls extent of resection during homology directed repair by signalling through exonuclease 1. *Nucleic Acids Res*. 2015 Sept;43(17):8352-67. PMID: 26240375.
15. Gupta S, **Cerosaletti K**, Long SA. Renegade homeostatic cytokine responses in T1D: Drivers of regulatory/effector T cell imbalance. *Clin. Immunol*. 2014 Apr;151(2):146-54. No federal support. PMID:24576418.
16. **Cerosaletti K**, Schneider A, Schwedhelm K, Frank I, Tatum M, Wei S, Whalen E, Greenbaum C, Kita M, Buckner JH, Long SA. Multiple autoimmune-associated variants confer decreased IL-2R signaling in CD4+CD25+ T cells of type 1 diabetic and multiple sclerosis patients. *PLOS ONE*. 2013 Dec; 8(12):1-9. PMCID: 3871703.
17. Estorninho M, Gibson VB, Kronenberg-Versteeg D, Liu YF, Ni C, **Cerosaletti K**, Peakman M. A Novel Approach to Tracking Antigen-Experienced CD4 T Cells into Functional Compartments via Tandem Deep and Shallow TCR Clonotyping. *J Immunol*. 2013 Oct 25. No federal support. PMID: 24163407.
18. **Cerosaletti K**, Buckner JH. Protein Tyrosine Phosphatases and Type 1 Diabetes: Genetic and Functional Implications of PTPN2 and PTPN22. *Rev Diabet Stud*. 2012 Winter;9(4):188-200. PMCID: 3740690.
19. Wen J, **Cerosaletti K**, Schultz KJ, Wright JA, Concannon P. NBN Phosphorylation regulates the accumulation of MRN and ATM at sites of DNA double-strand breaks. *Oncogene*. 2013 Sep 12;32(37):4448-56. PMCID: 3951136.

20. Schneider A, Long SA, **Cerosaletti K**, Ni CT, Samuels P, Kita M, Buckner JH. In active relapsing-remitting multiple sclerosis, effector T cell resistance to adaptive T(regs) involves IL-6-mediated signaling. *Sci Transl Med*. 2013 Jan 30;5(170):170ra15. No federal support. PMID: 23363979.
21. Robins H, Desmarais C, Matthis J, Livingston R, Andriesen J, Reijonen H, Carlson C, Nepom G, Yee C, **Cerosaletti K**. Ultra-sensitive detection of rare T cell clones. *J Immunol Methods*. 2012 Jan 31;375(1-2):14-9. PMID: 3721519.
22. Long SA, **Cerosaletti K (co-first author)**, Wan JY, Ho JC, Tatum M, Wei S, Shilling HG, Buckner JH. An autoimmune-associated variant in PTPN2 reveals an impairment of IL-2R signaling in CD4(+) T cells. *Genes Immun*. 2011 Mar;12(2):116-25. PMID: 3058680.
23. Long SA, **Cerosaletti K**, Bollyky PL, Tatum M, Shilling H, Zhang S, Zhang ZY, Pihoker C, Sanda S, Greenbaum C, Buckner JH. Defects in IL-2R signaling contribute to diminished maintenance of FOXP3 expression in CD4(+)CD25(+) regulatory T-cells of type 1 diabetic subjects. *Diabetes*. 2010 Feb;59(2):407-15. PMID: 2809970.
24. Vissinga CS, Yeo TC, Warren S, Brawley JV, Phillips J, **Cerosaletti K**, Concannon P. Nuclear export of NBN is required for normal cellular responses to radiation. *Mol Cell Biol*. 2009 Feb;29(4):1000-6. PMID: 2643806.
25. Unal S, **Cerosaletti K**, Uckan-Cetinkaya D, Cetin M, Gumruk F. A novel mutation in a family with DNA ligase IV deficiency syndrome. *Pediatr Blood Cancer*. 2009 Sep;53(3):482-4. No federal support. PMID: 19418549.
26. Stiff T, **Cerosaletti K**, Concannon P, O'Driscoll M, Jeggo PA. Replication independent ATR signalling leads to G2/M arrest requiring Nbs1, 53BP1 and MDC1. *Hum Mol Genet*. 2008 Oct 15;17(20):3247-53. PMID: 18664457.
27. Stiff T, Walker SA, **Cerosaletti K**, Goodarzi AA, Petermann E, Concannon P, O'Driscoll M, Jeggo PA. ATR-dependent phosphorylation and activation of ATM in response to UV treatment or replication fork stalling. *EMBO J*. 2006 Dec 13;25(24):5775-82. PMID: 1698893.
28. **Cerosaletti K**, Wright J, Concannon P. Active role for nibrin in the kinetics of atm activation. *Mol Cell Biol*. 2006 Mar;26(5):1691-9. PMID: 16478990, PMID: PMC1430256.
29. Ben-Omran TI, **Cerosaletti K**, Concannon P, Weitzman S, Nezarati MM. A patient with mutations in DNA Ligase IV: clinical features and overlap with Nijmegen breakage syndrome. *Am J Med Genet A*. 2005 Sep 1;137A(3):283-7. PMID: 16088910.
30. **Cerosaletti K**, Concannon P. Independent roles for nibrin and Mre11-Rad50 in the activation and function of Atm. *J Biol Chem*. 2004 Sep 10;279(37):38813-9. PMID: 15234984.
31. White RE, Wade-Martins R, Hart SL, Frampton J, Huey B, Desai-Mehta A, **Cerosaletti KM**, Concannon P, James MR. Functional delivery of large genomic DNA to human cells with a peptide-lipid vector. *J Gene Med*. 2003 Oct;5(10):883-92. PMID: 14533197.
32. **Cerosaletti KM**, Concannon P. Nibrin forkhead-associated domain and breast cancer C-terminal domain are both required for nuclear focus formation and phosphorylation. *J Biol Chem*. 2003 Jun 13;278(24):21944-51. PMID: 12679336.

33. Bakhshi S, **Cerosaletti KM**, Concannon P, Bawle EV, Fontanesi J, Gatti RA, Bhambhani K. Medulloblastoma with adverse reaction to radiation therapy in nijmegen breakage syndrome. *J Pediatr Hematol Oncol*. 2003 Mar;25(3):248-51. PMID: 12621246.
34. Resnick IB, Kondratenko I, Togoiev O, Vasserman N, Shagina I, Evgrafov O, Tverskaya S, **Cerosaletti KM**, Gatti RA, Concannon P. Nijmegen breakage syndrome: clinical characteristics and mutation analysis in eight unrelated Russian families. *J Pediatr*. 2002 Mar;140(3):355-61. PMID: 11953735.
35. **Cerosaletti KM**, Morrison VA, Sabath DE, Willerford DM, Concannon P. Mutations and molecular variants of the NBS1 gene in non-Hodgkin lymphoma. *Genes Chromosomes Cancer*. 2002 Nov;35(3):282-6. PMID: 12353271
36. O'Driscoll M, **Cerosaletti KM (co-first author)**, Girard PM, Dai Y, Stumm M, Kysela B, Hirsch B, Gennery A, Palmer SE, Seidel J, Gatti RA, Varon R, Oettinger MA, Neitzel H, Jeggo PA, Concannon P. DNA ligase IV mutations identified in patients exhibiting developmental delay and immunodeficiency. *Mol Cell*. 2001 Dec;8(6):1175-85. PMID: 11779494.
37. Hiel JA, Weemaes CM, van Engelen BG, Smeets D, Ligtenberg M, van Der Burgt I, van Den Heuvel LP, **Cerosaletti KM**, Gabreels FJ, Concannon P. Nijmegen breakage syndrome in a Dutch patient not resulting from a defect in NBS1. *J Med Genet*. 2001 Jun;38(6):E19. PMID: 11389166, PMCID: 1734895.
38. Desai-Mehta A, **Cerosaletti KM**, Concannon P. Distinct functional domains of nibrin mediate Mre11 binding, focus formation, and nuclear localization. *Mol Cell Biol*. 2001 Mar;21(6):2184-91. PMID: 11238951, PMCID: 86852.
39. Gatei M, Young D, **Cerosaletti KM**, Desai-Mehta A, Spring K, Kozlov S, Lavin MF, Gatti RA, Concannon P, Khanna K. ATM-dependent phosphorylation of nibrin in response to radiation exposure. *Nat Genet*. 2000 May;25(1):115-9. PMID: 10802669.
40. **Cerosaletti KM**, Desai-Mehta A, Yeo TC, Kraakman-Van Der Zwet M, Zdzienicka MZ, Concannon P. Retroviral expression of the NBS1 gene in cultured Nijmegen breakage syndrome cells restores normal radiation sensitivity and nuclear focus formation. *Mutagenesis*. 2000 May;15(3):281-6. PMID: 10792024.
41. **Cerosaletti KM**, Lange E, Stringham HM, Weemaes CM, Smeets D, Sölder B, Belohradsky BH, Taylor AM, Karnes P, Elliott A, Komatsu K, Gatti RA, Boehnke M, Concannon P. Fine localization of the Nijmegen breakage syndrome gene to 8q21: evidence for a common founder haplotype. *Am J Hum Genet*. 1998 Jul;63(1):125-34. PMCID:1377248.
42. Varon R, Vissinga C, Platzer M, **Cerosaletti KM**, Chrzanowska KH, Saar K, Beckmann G, Seemanová E, Cooper PR, Nowak NJ, Stumm M, Weemaes CM, Gatti RA, Wilson RK, Digweed M, Rosenthal A, Sperling K, Concannon P, Reis A. Nibrin, a novel DNA double-strand break repair protein, is mutated in Nijmegen breakage syndrome. *Cell*. 1998 May 1;93(3):467-76. PMID: 9590180.
43. **Cerosaletti KM**, Fournier RE. Extinction of albumin gene expression in a panel of human chromosome 2 microcell hybrids. *Genomics*. 1996 Feb 1;31(3):348-58. PMID: 8838317.

44. **Cerosaletti KM**, Fournier REK. Cloning Expressed cDNAs from Defined Chromosomal Regions Using Interspecific Microcell Hybrids and Subtractive Hybridization. *Methods*. 1996 Feb;9(1):47-55. PMID: 9245342.
45. Hulsebos TJ, **Cerosaletti KM**, Fournier RE, Sinke RJ, Rocchi M, Marzella R, Jenkins NA, Gilbert DJ, Copeland NG. Identification of the human beta A2 crystallin gene (CRYBA2): localization of the gene on human chromosome 2 and of the homologous gene on mouse chromosome 1. *Genomics*. 1995 Aug 10;28(3):543-8. PMID: 7490092.
46. Carter RE, **Cerosaletti KM**, Burkin DJ, Fournier RE, Jones C, Greenberg BD, Citron BA, Festoff BW. The gene for the serpin thrombin inhibitor (PI7), protease nexin I, is located on human chromosome 2q33-q35 and on syntenic regions in the mouse and sheep genomes. *Genomics*. 1995 May 1;27(1):196-9. PMID: 7665170.
47. **Cerosaletti KM**, Shapero MH, Fournier RE. Cloning mammary cell cDNAs from 17q12-q23 using interspecific somatic cell hybrids and subtractive hybridization. *Genomics*. 1995 Jan 1;25(1):226-37. PMID: 7774923
48. Leach FS, Nicolaidis NC, Papadopoulos N, Liu B, Jen J, Parsons R, Peltomaki P, Sistonen P, Aaltonen LA, Nystrom-Lahti M, Guan X-Y, Meltzer PS, Yu J-W, Kao F-T, Chen DJ, **Cerosaletti KM**, Fournier REK, Todd S, Lewis T, Leach RJ, Naylor SL, Weissenbach J, Mecklin J-P, Jarvinen H, Peterson GM, Hamilton SR, Green J, Jass J, Watson P, Lynch HT, Trent JM, de la Chapelle A, Kinzler KW, Vogelstein B. Mutation of a *mutS* homolog in hereditary nonpolyposis colorectal cancer. *Cell* 1993 Dec;75(6):1215-25. PMID: 8261515.
49. **Cerosaletti KM**, Woodward JG, Lord EM, Frelinger JG. Two regions of the H-2 Dd promoter are responsive to dimethylsulfoxide in line 1 cells by a mechanism distinct from IFN-gamma. *J Immunol*. 1992 Feb 15;148(4):1212-21. PMID: 1737936.
50. Blieden TM, McAdam AJ, Foresman MD, **Cerosaletti KM**, Frelinger JG, Lord EM. Class-I MHC expression in the mouse lung carcinoma, line 1: a model for class-I inducible tumors. *Int J Cancer Suppl*. 1991;6:82-9. PMID: 1906056.
51. **Cerosaletti KM**, Blieden TM, Harwell LW, Welsh KM, Frelinger JG, Lord EM. Alteration of the metastatic potential of line 1 lung carcinoma cells: opposite effects of class I antigen induction by interferons versus DMSO or gene transfection. *Cell Immunol*. 1990 May;127(2):299-310. PMID: 1691690.
52. Bahler DW, **Cerosaletti KM**, Lord EM, Frelinger JG. Molecular analysis of deficient class I H-2 antigen expression by mouse lung carcinoma cells. *J Immunol*. 1988 Jun 1;140(11):4003-12. PMID: 2453562
53. **Cerosaletti KM**, Roghmann MC, Bentley DW. Comparison of latex agglutination and counterimmunoelectrophoresis for the detection of pneumococcal antigen in elderly pneumonia patients. *J Clin Microbiol*. 1985 Oct;22(4):553-7. PMID: 4077966, PMCID: PMC268466.

### **Scientific Presentations**

Balmas E, Muir V, Diggins K, Speake C, Linsley PS, Buckner J, **Cerosaletti, K**. The PTPN22 R620W SNP is associated with alterations in the frequency and phenotypes of islet antigen-reactive CD4 T cells in T1D. FOCIS Annual Meeting 2019, 6/18/19-6/21/19, Boston MA. Poster presentation.

**Cerosaletti K**, DeBerg H, Balmas E, Chen J, Whitman F, Flynn K, Speake C, Greenbaum C, Serti E, Nepom G, Linsley PS. Expansion of islet reactive memory CD4 T cells in different stages of T1D and after therapy. Brehm Coalition Meeting 2019, 0/3/19-3/4/19, Ann Arbor MI. Poster Presentation.

**Cerosaletti K**, DeBerg H, Balmas E, Chen J, Whitman F, Speake C, Greenbaum C, Serti E, Nepom G, Linsley PS. Expansion of islet reactive memory CD4 T cells in different stages of T1D and after therapy. Immunology of Diabetes Meeting 2018, 10/24/18-10/30/18, London UK. Poster presentation.

Balmas E, DeBerg H, Whitman F, Chen J, Gersuk VH, Speake C, Greenbaum C, Nepom G, Linsley PS, **Cerosaletti K**. Single-cell RNAseq Identifies Expanded Clones and Specific Characteristics of Islet Antigen-Reactive Memory T Cells in Peripheral Blood of T1D. FOCIS Annual Meeting 2018, 6/20/18-6/23/18, San Francisco CA. Poster presentation.

James RG, Suchland E, Dam EM, Meitlis I, Buckner JH, Rawlings DJ, **Cerosaletti K**. The SLE-associated gene BANK1 inhibits macroautophagy and restricts plasma cell differentiation and immunoglobulin production by human B cells. FOCIS Annual Meeting 2018, 6/20/18-6/23/18, San Francisco CA. Poster presentation.

DeBerg H, Chen J, DuFort M, Whitman F, Gersuk VH, **Cerosaletti K**, Linsley PS. Single-cell RNA-seq reveals expanded clones of islet antigen-reactive CD4+ T cells in peripheral blood of subjects with type 1 diabetes. Cold Spring Harbor Single Cell Analyses Meeting 2017, 11/8/17-11/11/17, Cold Spring Harbor NY. Poster presentation.

**Cerosaletti K**, Whitman F, Yang J, Kwok W, Linsley PS. Islet antigen specific CD4 memory T cells express expanded TCR pairs and unique transcriptional profiles in type 1 diabetes. Immunology of Diabetes Meeting 2017, 1/19/17-1/23/17, San Francisco CA. Oral presentation.

**Cerosaletti K**, Yang J, Whitman F, Kwok W, Linsley PS. Detection of islet antigen expanded CD4 T cell TCR pairs and transcriptomes by single cell RNAseq. FOCIS Annual Meeting 2016, 6/22/16-6/25/16, Boston MA. Oral presentation.

**Cerosaletti K**, James R. The Impact of SLE variants in BANK1 on BAFF pathway function. CSGADP Investigators Meeting 10/15/15, NAIAD, Bethesda MD. Oral presentation.

**Cerosaletti K**, Yang J, Kwok W, Linsley PS. Detection of islet antigen expanded CD4 T cell TCR pairs and transcriptomes by single cell RNAseq. Immune Profiling in Health and Disease, 9/9/15-9/11/15, Seattle WA. Poster presentation.

**Cerosaletti K**, Ni C, Chen J, Gersuk V, Greenbaum C, Chaussabel D. Validation of Shared T-cell Receptor Beta Chain Clonotypes in Type 1 Diabetes. FOCIS Annual Meeting 2015, 6/24/15-6/27/15, San Diego CA. Poster presentation, designated *Poster of Merit*.

Samuelson E\*, Habib T\*, Funk A, Chen J, Wei S, Buckner J, **Cerosaletti K**. Autoimmune disease susceptibility alleles in the BANK1 gene are associated with altered B cell signaling and development in primary human B cells. Keystone meeting: The Golden Anniversary of B cell Discovery, 3/22/15-3/27/15, Banf, Alberta Canada. Poster presentation.

**Cerosaletti K**, Habib T, Funk A, Pickett M, Chen J, Wei S, Samuelson E, Peng S, Buckner JH. SLE-risk variants in the BANK1 gene are associated with altered B Cell development and signaling in primary human B cells. FOCIS Annual Meeting 2014, 6/25/14-6/28/14, Chicago IL. Poster presentation.



Habib T, Funk A, Chen J, Wei S, Samuelson E, Peng S, Buckner J, **Cerosaletti K**. SLE-susceptibility alleles in the BANK1 and BLK genes are associated with altered gene expression and B cell development/function in primary human B cells. Novo Nordisk Autoimmunity Symposium, 11/1/13, Seattle WA. Oral presentation.

Habib T, Funk A, Chen J, Wei S, Samuelson E, Peng S, Buckner J, **Cerosaletti K**. SLE-susceptibility alleles in the BANK1 and BLK genes are associated with altered gene expression and B cell development/function in primary human B cells. Keystone B cell development and function (XI), 2/10/13-2/15/13, Keystone CO. Poster presentation.

Habib T, Funk A, Chen J, Samuelson E, Wei S, Peng S, Buckner JH, **Cerosaletti K**. SLE-susceptibility alleles in the BANK1 and BLK genes are associated with altered gene expression and B cell development/function in primary human B cells. ALR Investigators Meeting, May 2013, New York City, NY. Poster presentation.

**Cerosaletti K**, Ni C, Matthis J, Estorninho M, Marthandan N, Livingston R, Robins H, Carlson C, Desmarais C, Sanda S, Greenbaum C, Gersuk V, Peakman M, Chaussabel D, Nepom J, JDRF HTS Consortium. Identification and validation of CD4 and CD8 T-cell receptor beta chain clonotypes expanded in type 1 diabetes. FOCIS Annual Meeting 2013, 6/27/13-6/30/13, Boston MA. Poster presentation, designated *Poster of Merit*.

**Cerosaletti K** on behalf of the JDRF Autoimmunity Centers Consortium. Analysis of the T cell receptor beta chain peripheral repertoire in type 1 diabetes by high throughput sequencing reveals CD4 and CD8 expanded clonotypes. FOCIS Annual Meeting 2012, 6/20/12-6/23/12, Vancouver BC, Canada. Oral presentation.

**Cerosaletti K**. Association of non-coding SNPs in the autoimmune susceptibility gene PTPN2 with diminished PTPN2 expression and altered IL-2 signaling. Northwest Institute for Genetic Medicine Annual Meeting, 5/13/11, Seattle WA. Oral presentation

**Cerosaletti K**, Long SA, Ho JC, Wan JY, Buckner JH. Association of non-coding SNPs in the autoimmune susceptibility gene PTPN2 with diminished PTPN2 expression. FOCIS Annual Meeting 2010, 6/23/10-6/28/10, Boston MA. Oral presentation.

**Cerosaletti K**, Wright J, Concannon P. An active role for nibrin in the kinetics of ATM activation following irradiation. Benzon Symposium No. 52: Cellular responses to DNA Damage, 8/20/05-8/26/05, Copenhagen, Denmark. Oral presentation.

**Cerosaletti K**, Concannon P. A differential role for Mre11/Rad50 in the activation and function of Atm following irradiation. AACR, Radiation Biology and Cancer: From Molecular Responses to the Clinic, 2/18/04-2/22/04, Dana Point CA. Poster presentation.

**Cerosaletti K**, O'Driscoll M, Girard PM, Palmer S, Gatti R, Jeggo P, Concannon P. Mutations in DNA ligase IV define a new radiation sensitivity disorder. ASHG Annual Meeting 2001, 10/12/01-10/16/01 San Diego CA. Oral presentation.

**Cerosaletti KM**, Morrison, A, Willeford D, Concannon P. Screening B cell lymphomas for mutations in the Nijmegen breakage syndrome gene (NBS1). ASHG Annual Meeting 2000, 10/3/00-10/7/00, Philadelphia PA. Poster presentation.

**Cerosaletti, K**, Lange E, Strigham HM, Taylor AMR, Weemas CMR, Gatti R, Boehnke M, Concannon

P. Mapping Nijmegen breakage syndrome to 8q21 and construction of a radiation hybrid map of the D8S1757-D8S506 region. ASHG Annual Meeting 1997, 10/28/97-11/1/97, Bethesda MD. Oral presentation.

**Cerosaletti KM**, Shaper MH, Fournier REK. Cloning cDNAs from 17q12-23 using interspecific somatic cell hybrids and subtractive hybridization. Keystone Meeting: Molecular Biology of Human Genetic Disease, 1/15/94-1/22/94, Copper Mountain CO. Poster presentation.

Frelinger JG, **Cerosaletti KM**. Mapping of the DMSO responsive region in the D<sup>d</sup> promoter. 7th International Congress of Immunology, 7/31/89-8/5/89, Berlin, West Germany. Poster presentation.

**Cerosaletti KM**, Blieden TM, Harwell LW, Frelinger JG, Lord EM. Effects of increased class I antigen expression on metastasis of line 1 lung carcinoma cells. 7th International Congress of Immunology, 7/31/89-8/5/89, Berlin, West Germany. Poster presentation.