

CURRICULUM VITAE
KAREN CEROSALETTI, PhD
Associate Member
Director, Center for Translational Immunology
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, Somatic Cell Genetics, Fred Hutchinson Cancer Research Center, Seattle, WA; Advisor, R. E. Keith Fournier, PhD

Faculty and Academic Appointments

2020-present Associate Member, Center for Translational Immunology, Benaroya Research Institute at Virginia Mason, Seattle, Washington

2019-present Director, Center for Translational Immunology, Benaroya Research Institute at Virginia Mason, Seattle, Washington

2016-2020 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

2022	Review Editor, Frontiers in Immunology
2022	Scientific Mentor, Invent at Seattle Children's Post-Doctoral Scholars Program
2021	Panelist, Targeting the Immune System in Type 1 Diabetes – The Sugar Science State of the Science https://thesugarscience.org/state-of-the-science-2021/
2020	Speaker, Seattle Children's Research Institute Center for Immunity and Immunotherapies Seminar Series, Seattle WA
2019	Speaker, Type 1 Diabetes TrialNet Collaborative Mechanistic Studies Panel Technology Meeting, Reston VA
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-present	Scientific grant review: Juvenile Diabetes Research Foundation, Lupus Research Alliance, Department of Defense – CDMRP Lupus Research Program, National Institutes of Health – Disease Control and Applied Immunology
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: Allergy, Annals of Rheumatic Diseases, Autoimmunity, BioMed Central, Cell Reports, Cellular Immunology, Cellular and Molecular Immunology, Clinical and Experimental Immunology, Clinical Rheumatology, Diabetes, Diabetes Care,

Diabetologia, eLife, Frontiers in Immunology, Genes and Immunity, Genome Medicine, Human Molecular Genetics, Human Mutation, Immunology, International Immunology, Journal Allergy and Clinical Immunology, JCI Insight, Journal of Immunology, Lancet Diabetes, PLOS One, Molecular and Cellular Biology, Proceedings of the National Academy of Sciences, Science Reports, Science Translational Medicine,
 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. Anderson W, Barahmand-Pour-Whitman F, Linsley PS, **Cerosaletti K**, Buckner JH, Rawlings DJ. PTPN22 R620W gene editing in T cells enhances low-avidity TCR responses. *eLife* 2023 Mar 24;12:e81577. doi: 10.7554/eLife.81577. PMID: 36961507.
2. Yang SJ, Singh AK, Drow T, Tappen T, Honaker Y, Barahmand-Pour-Whitman F, Linsley PS, **Cerosaletti K**, Mauk K, Xiang Y, Smith J, Mortensen E, Cook PJ, Sommer K, Khan I, Liggitt D, Rawlings DJ, Buckner JH. Pancreatic islet-specific engineered Tregs exhibit robust antigen-specific and bystander immune suppression in type 1 diabetes models. *Sci Transl Med.* 2022 Oct 5;14(665):eabn1716. PMID: 36197963.
3. Lambert K, Diggins KE, Jones BE, Hundhausen C, Maerz MD, Hocking AM, Sanda S, Greenbaum CJ, Linsley PS, **Cerosaletti K**, Buckner JH. IL-6-Driven pSTAT1 response Is linked to T Cell features implicated in early immune dysregulation. *Front Immunol.* 2022 Jul 13;13:935394. PMID: 35911690.
4. Kanchan K, Grinek S, Bahnson HT, Ruczinski I, Shankar G, Larson D, Du Toit G, Barnes KC, Sampson HA, Suarez-Farinas M, Lack G, Nepom GT, **Cerosaletti K**, Mathias RA. HLA alleles and sustained peanut consumption promote IgG4 responses in subjects protected from peanut allergy. *J Clin Invest.* 2022 Jan 4;132(1):e152070. PMID: 34981778.
5. Mikacenic C, Bhatraju P, Robinson-Cohen C, Kosamo S, Fohner AE, Dmyterko V, Long SA, **Cerosaletti K**, Calfee CS, Matthay MA, Walley KR, Russell JA, Christie JD, Meyer NJ, Christiani DC, Wurfel MM. Single Nucleotide Variant in FAS Associates With Organ Failure and Soluble Fas Cell Surface Death Receptor in Critical Illness. *Crit Care Med.* 2022 Mar 1;50(3):e284-e293. PMID: 34593707.
6. Linsley PS, Barahmand-Pour-Whitman F, Balmas E, DeBerg HA, Flynn KJ, Hu AK, Rosasco MG, Chen J, O'Rourke C, Serti E, Gersuk VH, Motwani K, Seay HR, Brusko TM, Kwok WW, Speake C, Greenbaum CJ, Nepom GT, **Cerosaletti K**. Self-reactive T cell receptors with shared germline-like alpha chains in type 1 diabetes. *JCI Insight.* 2021; Nov 22;6(22):e151349. PMID: 34806648.
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8. Greenbaum CJ, Serti E, Lambert K, Weiner LJ, Kanaparthi S, Lord S, Gitelman SE, Wilson DM, Gaglia JL, Griffin KJ, Russell WE, Raskin P, Moran A, Willi SM, Tsalikian E, DiMeglio LA, Herold KC, Moore WV, Goland R, Harris M, Craig ME, Schatz DA, Baidal DA, Rodriguez H, Utzschneider KM, Nel HJ, Soppe CL, Boyle KD, **Cerosaletti K**, Keyes-Elstein L, Long SA, Thomas R, McNamara JG,

- Buckner JH, Sanda S; ITN058AI EXTEND Study Team. IL-6 receptor blockade does not slow β cell loss in new-onset type 1 diabetes. *JCI Insight*. 2021 Nov 8;6(21):e150074. PMID: 34747368
9. Soveg FW, Schwerk J, Gokhale NS, **Cerosaletti K**, Smith JR, Pairo-Castineira E, Kell AM, Forero A, Zaver SA, Esser-Nobis K, Roby J, Hsiang TY, Ozarkar S, Clingan JM, McAnarney ET, Stone AEL, Malhotra U, Speake C, Perez J, Balu C, Allenspach EJ, Hyde JL, Menachery VD, Sarkar SN, Woodward JJ, Stetson DB, Baillie JK, Buckner JH, Gale M Jr, Savan R. Endomembrane targeting of human OAS1 p46 augments antiviral activity. *Elife*. 2021 Aug 3;10:e71047. PMID: 34342578.
 10. Ruffner MA, Hu A, Dilollo J, Benocsek K, Shows D, Gluck M, Spergel JM, Ziegler SF, Hill DA, **Cerosaletti K**. Conserved IFN Signature between Adult and Pediatric Eosinophilic Esophagitis. *J Immunol*. 2021 Mar 15;206(6):1361-1371. PMID: 33558373.
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- in CD4+CD25+ T cells of type 1 diabetic and multiple sclerosis patients. *PLOS ONE*. 2013 Dec; 8(12):1-9. PMID: 3871703.
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Scientific Presentations

Ruffner MA, Hu A, Dilollo J, Benoczek K, Shows D, Gluck M, Spergel JM, Ziegler SF, Hill DA, **Cerosaletti K**. Children and Adults with Eosinophilic Esophagitis Share a Conserved Interferon Signature. FOCIS Virtual Annual Meeting 2021, 6/8/21-6/11/21. Oral presentation.

Cerosaletti K, Chen J, Shah E, Garabatos-Leiton N, Calise J, Robinson D, Jeong D, Farrington M, Kanchan K, Mathias R, Lim N, Nepom G, Londei M, Wambre E, Ziegler SF. Development of peanut allergy is associated with coding SNPs in the C-terminus of the IL-33 receptor. American Academy of Allergy Asthma and Immunology Annual Meeting 2020, 3/13/20-3/16/20, Philadelphia PA. Oral Presentation.

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.

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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.

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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.

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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.