Curriculum Vitae

Christine R. Beck, Ph.D.

Date:	January 3rd, 2021
Address:	Departments of Genetics and Genome Sciences and Molecular Biology and Biochemistry University of Connecticut Health Center & The Jackson Laboratory for Genomic Medicine 10 Discovery Drive Farmington, CT 06032
Telephone:	(860) 837-2173
E-mail:	Christine.Beck@jax.org

Faculty Position

2017-Present	Assistant Professor, Tenure Track University of Connecticut Health and the Jackson Laboratory for Genomic Medicine Department of Genetics and Genome Sciences Department of Molecular Biology and Biophysics Member, Institute for Systems Genomics

Education

1998-2002	B.S., Biochemistry, Iowa State University, Ames, Iowa
2004	Graduate Non-Degree Student, University of Iowa, Iowa City, Iowa
2005-2012	Ph.D., Human Genetics, Laboratory of Dr. John V. Moran, Ph.D., University of Michigan, Ann Arbor, Michigan Thesis Title: LINE-1 Retrotransposition in Human Genomic Variation

Postdoctoral Training

2012-2017	Research Fellow, Laboratory of Dr. James R. Lupski, M.D., Ph.D., Department of Molecular & Human Genetics, Baylor College of Medicine, Houston TX

Other Professional Experience and Activities

2002-2005	Research Assistant, Laboratory of Beverly L. Davidson, Ph.D., University of Iowa, Iowa City, Iowa

2012-Present	Ad hoc manuscript reviewer: Genome Research, Genetics in Medicine, Brain, Neurogenetics, Human Mutation, Human Genetics, HGG, PLOS One, Science Advances, Nature Communications, Mobile DNA, and Bioinformatics.
2008-Present	Society Memberships: American Society of Human Genetics, Parents and Researchers Interested in Smith-Magenis Syndrome (2012-2018), The Jackson Laboratory WISE (2018 – present), GSA (2019-present).
2016	American Society of Human Genetics, Annual Meeting Vancouver, Canada Session co-Organizer and Chair, "The Role of DNA Repair in Genomic Variation, Instability, and Human Disease."
2017	American Society of Human Genetics, Annual Meeting Orlando, Florida Abstract Reviewer and Session Chair, "Genome Structure and Function: The Contribution of Mutations to Human Genetic Diversity, Disease, and Evolution"
2018	American Society of Human Genetics, Annual Meeting San Diego, California Abstract Reviewer and Session Chair, "Emerging Omics Technologies"
2019	ISG seed grant reviewer; University of Connecticut
2019	American Society of Human Genetics, Online Programs & Professional Education Working Group
2019-Present	National Institutes of Health Bethesda, Maryland Grant Reviewer; Pioneer Award Program
2020	Participant in NIH panel on Somatic Structural Variation and Retrotransposition
2020	American Society of Human Genetics, Annual Meeting Virtual Session Chair, "Genome Discoveries from Long Read Sequencing"
2020	American Society for Biochemistry and Molecular Biology Panelist; Career Symposium

Honors and Awards

2007	Anita and Howard Cramer Scholarship Award University of Michigan Department of Human Genetics, Ann Arbor, Michigan

2006-2008	NIH Genetics Training Grant (Pre-doctoral) University of Michigan, Ann Arbor, Michigan
2008-2011	NIH Genome Science Training Program (Pre-doctoral) University of Michigan, Ann Arbor, Michigan
2009	ASHG Trainee Award Semi-Finalist American Society of Human Genetics Annual Meeting, Honolulu, Hawaii
2010	Neel Fellowship University of Michigan Department of Human Genetics, Ann Arbor, Michigan
2012-2013	**NIH Brain Disorders and Development Training Program (Post-doctoral)** Baylor College of Medicine, Houston, Texas
2013-2016	HHMI Fellow of the Damon Runyon Cancer Research Foundation Baylor College of Medicine, Houston, Texas

Teaching Activities

2006	Teaching Assistant, Human Genetics 541 University of Michigan, Ann Arbor, Michigan
2006-2008	Volunteer Instructor, Summer Science Academy University of Michigan, Ann Arbor, Michigan
2018-present	Organizer, Structural Variation Journal Club The Jackson Laboratory, Farmington, Connecticut
2018-present	Lecturer, MEDS 6448; Foundations of Biomedical Sciences University of Connecticut Health Center, Farmington, Connecticut
2020-present	Lecturer, Biological Science Bootcamp one day course Harvard University, Boston, Massachusetts
2020-present	Lecturer, Advanced Topics in Genetics University of Connecticut Health Center, Farmington, Connecticut

Mentoring Activities

2013-2014	Janson White, Molecular and Human Genetics PhD Candidate, BCM
2015-2017	Xiaofei Song, Molecular and Human Genetics PhD Candidate, BCM
2016-2017	Vahid Bharambeigi, Master's Student, MD Anderson

2017-present	Kirby Madden-Hennessey, PhD Candidate; Thesis Committee Member Molecular Biology and Biochemistry program, UCHC
2018	Jacob Dayton, Summer Science Program Mentor, The Jackson Laboratory
2018-present	Alex Nesta, PhD Candidate; Thesis Mentor Genetics and Developmental Biology program, UCHC
2018	Nicholas Jannetty, PhD Candidate; Rotation Mentor, Fall Semester
2019-present	Sarah-Anne Nichols, PhD Candidate; Thesis Committee Member Center for Vascular Biology, UCHC
2019-present	Tara Yankee, PhD Candidate; Thesis Committee Member Genetics and Developmental Biology program, UCHC
2019-present	Jennifer Chung, PhD Candidate; Qualifying Exam Committee Member Genetics and Developmental Biology program, The Jackson Laboratory
2019	Lucas Kim, Summer Science Program Mentor, The Jackson Laboratory
2020-present	Ardian Ferraj, PhD Candidate, T32 Recipient; Thesis Mentor Genetics and Developmental Biology program, UCHC
2020	Jie Zhou, PhD Candidate; Rotation Mentor, Spring Semester
2020	Prakhar Bansal, PhD Candidate; Thesis Committee Member Genetics and Developmental Biology program, UCHC
2020	Rachel Gilmore, PhD Candidate; Thesis Committee Member Genetics and Developmental Biology program, UCHC
2020	Jacob Flores, Post Baccalaureate Trainee; Mentor

Committee Membership (Department and University)

2018-2020	Scientific Advisory Committee The Jackson Laboratory of Genomic Medicine Farmington, CT
2018-2020	Faculty Retreat Planning Committee The Jackson Laboratory of Genomic Medicine Farmington, CT
2019-2020	Faculty Search Committee – Institute for Systems Genomics The University of Connecticut Storrs, CT

2021-2023	Scientific Advisory Committee The Jackson Laboratory of Genomic Medicine Farmington, CT
2021	Library Committee The Jackson Laboratory of Genomic Medicine Farmington, CT

Competitive Funding Secured

2013-2016	HHMI Fellow of the Damon Runyon Cancer Research Foundation Baylor College of Medicine, Houston, Texas PI: Christine R. Beck Title: Mechanisms underlying copy number gain in cancer and genomic disorder-associated complex rearrangements Duration: 3.5 years
2016-2017	K99 GM120453 Pathway to Independence Award NIH / National Institute of General Medical Sciences (NIGMS) Baylor College of Medicine, Houston, Texas PI: Christine R. Beck Title: Mechanisms of Repetitive Element Mediated Genomic Rearrangements
2018-2019	R00 GM120453 Pathway to Independence Award NIH / National Institute of General Medical Sciences (NIGMS) UCONN Health/Jackson Laboratory for Genomic Medicine PI: Christine R. Beck Title: Mechanisms of Repetitive Element Mediated Genomic Rearrangements
2018	Director's Innovation Fund The Jackson Laboratory PI: Christine R. Beck Title: Structural Variation Discovery as a Resource for the Collaborative Cross
2019	R35 GM133600 Maximizing Investigators Research Award NIH / National Institute of General Medical Sciences (NIGMS) UCONN Health/Jackson Laboratory for Genomic Medicine PI: Christine R. Beck Title: Homologous Sequences and Their Effects on Genome Biology

Publications

1. Harper SQ, Staber PD, Beck CR, Fineberg SK, Stein C, Ochoa D, Davidson BL. (2006). Optimization of feline immunodeficiency virus vectors for RNA interference. J Virol. 80, 9371-80. PMCID: PMC1617215

2. Beck CR, Collier P, Macfarlane C, Malig M, Kidd JM, Eichler EE, Badge RM, Moran JV. (2010) LINE-1 Activity in Human Genomes. Cell. 14, 1159-1170. PMCID: PMC3013285

3. Beck CR, Garcia-Perez JL, Badge RM, Moran, JV. (2011). LINE-1 Elements in Structural Variation and Disease. Annu Rev Genomics Hum Genet. 12, 187-215. PMCID: PMC4124830

4. Bank LM, Bianchi LM, Ebisu F, Lerman-Sinkoff D, Smiley EC, Shen YC, Ramamurthy P, Thompson DL, Roth TM, Beck CR, Flynn M, Teller RS, Feng L, Llewellyn GN, Holmes B, Sharples C, Coutinho-Budd J, Linn SA, Chervenak AP, Dolan DF, Benson J, Kanicki A, Martin CA, Altschuler R, Koch AE, Jewett EM, Germiller JA, Barald KF. (2012). Macrophage Migration Inhibitory Factor Acts as a Neurotrophin in the Developing Inner Ear. Development. 139, 4666-74. PMCID: PMC3509728

5. Macfarlane CM, Collier P, Rahbari R, Beck CR, Igoe S, Moran JV, Badge RM. (2013). Transduction-Specific ATLAS Reveals a Cohort of Highly Active L1 Retrotransposons in Human Populations. Hum Mutat. 34, 974-85. PMCID: PMC3880804

6. Shuvarikov A, Campbell IM, Dittwald P, Neill NJ, Bialer MG, Moore C, Wheeler PG, Wallace SE, Hannibal MC, Murray MF, Giovanni MA, Terespolski D, Sodhi S, Cassina M, Viskochil D, Moghaddam B, Herman K, Brown CW, Beck CR, Gambin A, Cheung SW, Patel A, Lamb AN, Shaffer LG, Ellison JW, Ravnan JB, Stankiewicz P, Rosenfeld JA (2013). Recurrent HERV-H-mediated 3q13.2-q13.31 deletions cause a syndrome of hypotonia and motor, language, and cognitive delays. Hum Mutat. 34, 1415-1423. PMCID: PMC4599348.

7. Okamoto Y, Pehlivan D, Wiszniewski W, Beck CR, Snipes GJ, Lupski JR, and Khajavi M (2013). Curcumin facilitates a transitory cellular stress response in Trembler-J mice. Hum Mol Genet. 22, 4698-4705. PMCID: PMC3820132

8. Okamoto Y, Goksungur MT, Pehlivan D, Beck CR, Gonzaga-Jauregui C, Muzny DM, Atik MM, Carvalho CM, Matur Z, Bayraktar S, et al. (2013). Exonic duplication CNV of NDRG1 associated with autosomal-recessive HMSN-Lom/CMT4D. Genet Med. 16, 386-94. PMCID: PMC4224029

9. Pehlivan D, Karaca E, Aydin H, Beck CR, Gambin T, Muzny DM, Bilge Geckinli B, Karaman A, Jhangiani SN, Centers for Mendelian Genomics, et al. (2014). Whole-exome sequencing links TMCO1 defect syndrome with cerebro-facio-thoracic dysplasia. Eur J Hum Genet. 22, 1145-8. PMCID: PMC4135405

10. Stray-Pedersen A, Backe PH, Sorte HS, Mørkrid L, Chokshi NY, Erichsen HC, Gambin T, Elgstøen KB, Bjørås M, Wlodarski MW, Krüger M, Jhangiani SN, Muzny DM, Patel A, Raymond KM, Sasa GS, Krance RA, Martinez CA, Abraham SM, Speckmann C, Ehl S, Hall P, Forbes LR, Merckoll E, Westvik J, Nishimura G, Rustad CF, Abrahamsen TG, Rønnestad A, Osnes LT, Egeland T, Rødningen OK, Beck CR, et al. (2014). PGM3 mutations cause a congenital disorder of glycosylation with severe immunodeficiency and skeletal dysplasia. Am J Hum Genet. 95, 96-107. PMCID: PMC4085583

11. Boone PM, Yuan B, Campbell IM, Scull JC, Withers MA, Baggett BC, Beck CR, Shaw CJ, Stankiewicz P, Moretti P, Goodwin WE, Hein N, Fink JK, Seong MW, Seo SH, Park SS, Karbassi ID, Batish SD, Ordóñez-Ugalde A, Quintáns B, Sobrido MJ, Stemmler S, and Lupski JR. (2014). The Alu-rich genomic architecture of SPAST predisposes to diverse and functionally distinct disease-associated CNV alleles. Am J Hum Genet. 95, 143-61. PMCID: PMC4129405

12. Campbell IM, Gambin T, Dittwald P, Beck CR, Shuvarikov A, Hixson P, Patel A, Gambin A, Shaw CA, Rosenfeld JA, and Stankiewicz P. (2014). Human endogenous retroviral elements promote genome instability via non-allelic homologous recombination. BMC Biol. 12, 74. PMCID: PMC4195946

13. Yuan B, Pehlivan D, Karaca E, Patel N, Charng WL, Gambin T, Gonzaga-Jauregui C, Sutton VR, Yesil G, Bozdogan ST, Tos T, Koparir A, Koparir E, Beck CR, Gu S, Aslan H, Yuregir OO, Al Rubeaan K, Alnaqeb D, Alshammari MJ, Bayram Y, Atik MM, Aydin H, Geckinli BB, Seven M, Ulucan H, Fenercioglu E, Ozen M, Jhangiani S, Muzny DM, Boerwinkle E, Tuysuz B, Alkuraya FS, Gibbs RA, and Lupski JR. (2014). Global transcriptional disturbances underlie Cornelia de Lange syndrome and related phenotypes. J Clin Invest. 125, 636-51. PMCID: PMC4319410

14. Beck CR, Carvalho CMB, Banser L, Gambin T, Stubbolo D, Yuan B, Sperle K, McCahan SM, Henneke M, Seeman P, Garbern JY, Hobson GM, and Lupski JR. (2015). Complex genomic rearrangements at the PLP1 locus include triplication and quadruplication. PLoS Genet. 11, e1005050. PMCID: PMC4352052

15. English AC, Salerno WJ, Hampton OA, Gonzaga-Jauregui C, Ambreth S, Ritter, DI, Beck CR, Davis CF, Dahdouli M, Ma S, Carroll A, Veeraraghavan N, Bruestle J, Drees B, Hastie A, Lam ET, White S, Mishra P, Wang M, Han Y, Zhang F, Stankiewicz P, Wheeler DA, Reid JG, Muzny DM, Rogers J, Sabo A, Worley KC, Lupski JR, Boerwinkle E, and Gibbs RA. (2015). Assesing structural variation in a personal genome-towards a human reference diploid genome. BMC Genomics. 11, 286. PMCID: PMC4490614

16. Wang M*, Beck CR*, English AC, Meng Q, Buhay C, Han Y, Doddapaneni HV, Yu F, Boerwinkle E, Lupski JR, Muzny DM, and Gibbs RA. (2015). PacBio-LITS: A large-insert targeted sequencing method for characterization of human disease-associated chromosomal structural variations. BMC Genomics. 16, 214. (*co-first author). PMCID: PMC4376517

17. Gu S, Yuan B, Campbell IM, Beck CR, Carvalho CM, Nagamani SC, Erez A, Patea A, Bacino CA, Shaw CA, Stankiewicz P, Cheung SW, Bi W, Lupski JR. (2015). Alu-mediated diverse and complex pathogenic copy-number variants within human chromosome 17 at p13.3. Hum Mol Genet. 24, 4061-77. PMCID: PMC4476451

18. Mayle R, Campbell IM, Beck CR, Yu Y, Wilson M, Shaw CA, Bjergbaek L, Lupski JR, Ira G. (2015). Mus81 and converging forks limit the mutagenicity of replication fork breakage. Science. 349, 742-7. PMCID: PMC4782627

19. Pehlivan D*, Beck CR*, Okamoto Y, Harel T, Akdemir ZHC, Jhangiani SN, Withers MA, Goksungur MT, Carvalho CMB, Czesnik D, Gonzaga-Jauregui C, Wiszniewski W, Muzny DM, Baylor-Hopkins Center for Mendelian Genomics, Gibbs RA, Rautenstrauss B, Sereda MW, Lupski JR. (2015). The role of combined SNV and CNV burden in patients with distal symmetric polyneuropathy. Genet In Med. 18, 443-51. (*co-first author) PMCID: PMC5322766

20. Yuan B, Harel T, Gu S, Liu P, Burglen L, Chantot-Bastaraud S, Gelowani V, Beck CR, Carvalho CM, Cheung SW, et al. (2015). Nonrecurrent 17p11.2p12 Rearrangement Events that Result in Two Concomitant Genomic Disorders: The PMP22-RAI1 Contiguous Gene Duplication Syndrome. Am J Hum Genet. 97, 691-707. PMCID: PMC4667131

21. Yuan B, Liu P, Gupta A, Beck CR, Tejomurtula A, Campbell IM, Gambin T, Simmons AD, Withers MA, Harris RA, et al. (2015). Comparative Genomic Analyses of the Human NPHP1 Locus Reveal

Complex Genomic Architecture and Its Regional Evolution in Primates. PLoS Genet. 11, e1005686. PMCID: PMC4671654

22. White J*, Beck CR*, Harel T, Posey JE, Jhangiani SN, Tang S, Farwell KD, Powis Z, Mendelsohn NJ, Baker JA, et al. (2016). POGZ truncating alleles cause syndromic intellectual disability. Genome Med. 8, 3. (*co-first author). PMCID: PMC4702300

23. Stray-Pedersen A, Sorte HS, Samarakoon P, Gambin T, Chinn IK, Coban-Akdemir ZH, Erichsen HC, Forbes LR, Gu S, Yuan B, Jhangiani SN, Muzny DM, Rodningen OK, Sheng Y, Nicholas SK, Noroski LM, Seeborg FO, Davis CM, Canter DL, Mace EM, Vece TJ, Allen CE, Abhyankar HA, Boone PM, Beck CR, et al. (2016). Primary immunodeficiency diseases: Genomic approaches delineate heterogeneous Mendelian disorders. J Allergy Clin Immunol. 139, 232-245. PMCID: PMC5222743

24. Loviglio MN*, Beck CR*, White JJ, Leleu M, Harel T, Guex N, Niknejad A, Bi W, Chen ES, Crespo I, Yan J, Charng WL, Gu S, Fang P, Coban-Akdemir Z, Shaw CS, Jhangiani SN, Muzny DM, Gibbs RA, Rougemont J, Xenarios I, Lupski JR, Reymond A. (2016). Identification of a RAI1-associated disease network through integration of exome sequencing, transcriptomics, and 3D genomics. Genome Med. 8, 105. (*co-first author) PMCID: PMC5088687

25. Larson P, Moldovan JB, Jasti N, Kidd JM, Beck CR, Moran JV. (2018). Spliced integrated retrotransposed element (SpIRE) formation in the human genome. PLoS Biology. 16, e2003067. PMCID: PMC5860796

26. Song X, Beck CR, Du R, Campbell IM, Coban-Akdemir Z, Gu S, Breman AM, Stankiewicz P, Ira G, Shaw CA, et al. (2018). Predicting human genes susceptible to genomic instability associated with Alu/Alu-mediated rearrangements. Genome Res. 28, 1228-1242. PMCID: PMC6071635

27. Beck CR, Carvalho CMB, Coban-Akdemir Z, Sedlazeck FJ, Song X, Meng Q, Hu J, Doddapanenei H, Chong Z, Chen ES, Thornton PC, et al. (2019). Megabase Length Hypermutation Accompanies Human Structural Variation at 17p11.2. Cell 176(6) 1310-1324. PMCID: PMC6438178

28. Bahrambeigi V, Song X, Sperle K, Beck CR, Hijazi H, Grochowski CM, Gu S, Seeman P, Woodward KJ, Carvalho CMB, Hobson GM, Lupski JR. (2019). Distinct patterns of complex rearrangements and a mutational signature of microhomeology are frequently observed in PLP1 copy number gain structural variants. Genome Med. 11(1):80. PMCID: PMC6902434.

29. Balachandran P, Beck CR. (2020). Structural Variant Identification and Characterization. Chromosome Res. 28(1):31-47. PMCID: PMC7131885.

30. Rebollo R, Galvão-Ferrarini M, Gagnier L, Zhang Y, Ferraj A, Beck CR, Lorincz MC, Mager DL. (2020). Inter-Strain Epigenomic Profiling Reveals a Candidate IAP Master Copy in C3H Mice. Viruses 12(7), 783. PMCID: PMC32708087.

31. Kim H, Nguyen NP, Turner K, Wu S, Gujar AD, Luebeck J, Liu J, Deshpande V, Rajkumar U, Namburi S, Amin SB, Yi E, Menghi F, Schulte JH, Henssen AG, Chang HY, Beck CR, Mischel PS, Bafna V, Verhaak RGW. (2020). Extrachromosomal DNA is associated with oncogene amplification and poor outcome across multiple cancers. Nat. Genet. 52(9):891-897. PMCID: PMC7484012.

32. Nesta AV, Tafur D, Beck CR. (2020). Hotspots of Human Mutation. Trends in Genetics. (20)30276-6. PMID: 33199048.

33. Veiga DFT, Nesta AV, Zhao Y, Mays AD, Huynh R, Rossi R, Wu TC, Palucka K, Anczukow O, Beck CR, Banchereau J. (2020). Long-read isoform sequencing reveals survival-associated splicing in breast cancer. bioRxiv. 2020.11.10.376996.

Selected Oral Presentations at Scientific Meetings and Invited Speaking Engagements

October 2009- Beck CR, Collier P, Macfarlane C, Malig M, Kidd JM, Eichler EE, Badge RM, Moran JV. LINE-1 variation in human genomes. American Society of Human Genetics, Honolulu, Hawaii.

November 2013- Wang M, English A, Beck CR, Buhay C, Han Y, Kovar C, Santibanez J, Doddapanen HV, Yu F, Reid J, Boerwinkle E, Lupski JR, Muzny DM, Gibbs RA. PacBio Long-Read-Length Sequencing for Structural Variation Analysis of the Human Genome. Personal Genomes Meeting, Cold Spring Harbor Labs, New York. (co-first author)

November 2014- Beck CR, Carvalho CMB, Banser L, Gambin T, Stubbolo D, Yuan B, Sperle K, McCahan SM, Henneke M, Seeman P, Hobson GM, and Lupski JR. Complex Genomic Rearrangements at the PLP1 Locus Include Triplication and Quadruplication. Personal Genomes: Discovery, Treatment & Outcomes Meeting, Cold Spring Harbor Labs, New York.

May 2016- Beck CR, Carvalho CMB, Wang M, Meng Q, English AC, Bainbridge MN, Salerno WJ, Muzny DM, Lupski JR, Gibbs RA. The use of capture and long-read PacBio sequencing for clinically relevant loci. Invited Speaker. European Society of Human Genetics PacBio Satellite Meeting, Barcelona, Spain.

September 2016- Beck CR, Carvalho CMB, Wang M, Meng Q, Chen ES, Chong Z, English AC, Salerno WJ, Muzny DM, Shaw CA, Chen K, Gibbs RA, Lupski JR. Targeted Capture and SMRT sequencing for Complex Genomic Loci. Invited Speaker. PacBio Users Group Meeting, Stanford, California.

October 2016- Beck CR. Mechanisms for DNA Rearrangements in Genomic Disorders- From the Bedside to the Bench Side. Invited Speaker. American Society of Human Genetics Meeting; Vancouver, Canada.

April 2018- Beck CR. Repetitive sequences and genomic plasticity. Invited Speaker. The University of Connecticut, MCB Spring Seminar Series; Storrs, Connecticut.

May 2018- Beck CR. Repetitive sequences and genomic plasticity. Invited Speaker. Annual New England Genome Instability and Cancer Conference; Worcester, Massachusetts.

May 2018- Beck CR. Repetitive elements and genomic change. Keynote Speaker. Big Data for Genomics Professors Course; The Jackson Laboratory for Genomic Medicine, Farmington, Connecticut.

October 2018- Beck CR. Human genomic rearrangements and homologous sequences. Invited Speaker. Memorial Sloane Kettering Cancer Center Think Tank on Understanding Sequence-Specific Mutations in Cancer; New York, New York.

November 2018- Beck CR. Structural variation and processes of genomic mutation. Scientific Director's Forum. Jackson Laboratory for Genomic Medicine; Farmington, Connecticut.

November 2018- Beck CR. Structural variation and homologous sequences. Institute for Systems Genomics Networking Workshop. University of Connecticut; Storrs, Connecticut.

September 2019- Beck CR. Mechanisms of Structural Variation. Invited Speaker. Workshop on Long-Read Sequencing. The Jackson Laboratory for Genomic Medicine; Farmington, Connecticut.

October 2019- Balachandran P, Dayton JN, Tafur DC, Walawalkar I, Ananda G, Beck CR. Transposable Element Mediated Rearrangements are Prevalent in Human Genomes. American Society of Human Genetics, Annual Meeting; Houston, Texas.

October 2019- Beck CR. Mechanisms and impact of structural variation. Invited Speaker. The University of Connecticut, MCB Fall Seminar Series; Storrs, Connecticut.

February 2020- Beck CR. Funding for UCHC drives genomic research at the Jackson Laboratory and in Connecticut. Testimony for state of CT budget hearing, Hartford, Connecticut.

March 2020- Beck CR. Structural Variation and Mechanisms of Genomic Change. Keynote Speaker-CANCELLED. Duke University Department of Molecular Genetics and Microbiology Annual Retreat. Raleigh, North Carolina.

August 2020- Beck CR. Repeats and Genomic Instability- From Retrotransposition to Recombination. 29th Annual Short Course on Experimental Models of Human Cancer. Jackson Laboratories, Bar Harbor Maine.

December 2020- Beck CR. Mechanisms and Impact of Structural Variation. MD/PhD Research Club. University of Connecticut Health Center.