

JP Cartailier, Ph.D., Director, Creative Data Solutions
Leesa Sampson, Ph.D., Senior Staff Scientist, VGER

Keywords: [SPRING<](#) [VCSCB](#) [seminars](#)

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Meeting Details

Start Date / Time	February 12, 2020 at 9:00 AM
End Date / Time	February 12, 2020 at 10:00 AM
Duration	1 hour(s)
Location	9455 MRB IV
Presenter Name	JP Cartailier, Ph.D. and Leesa Sampson , Ph.D.
Presentation Title	See below
Status	This meeting has already occurred

Meeting Agenda/Notes

Creative Data Solutions

The overall mission of Creative Data Solutions (CDS) is to provide bioinformatics and informatics services, and to increase the ability of investigators to both publish their work and acquire funding. Dr. Cartailier will provide an overview of the services CDS provides that are relevant to investigations in stem and progenitor cell biology. This includes the analysis of single cell and bulk RNA sequencing data, ChIP sequencing data, and general bioinformatics.

Vanderbilt Genome Editing Resource

Cre-lox is widely used to perform conditional gene deletions in mice but it has limitations. Dr. Sampson will describe progress to use dCas9-KRAB to conditionally suppress gene expression in mice. By using sgRNA expressing mice, made using piggyBac, with established dCas9-KRAB repressor mice, it may be possible to achieve single and multigene knock-downs in a manner that is faster and less costly than Cre-lox.

Attachment

 [Spring_2020_Email_Notice_Cartailier_Sampson.pdf](#) - Added on February 11, 2020 at 12:10 PM by Pam Utz