Guillaume Chanfreau

Specific and timely regulation of gene expression is essential to the processes of cell differentiation, development and is often perturbed during pathological processes. A precise regulation of gene expression requires the integrated coordination of transcription and post-transcriptional processes to ensure that genes are properly expressed in time and space. Our research group focuses on using systems-wide approaches to understand how transcription and post-transcriptional processes are integrated to tightly control the expression of eukaryotic genes. By analyzing gene expression using a combination of original genome-wide approaches, we have discovered novel pathways that ensure the quality control of gene expression and uncovered how RNA degradation eliminate aberrant RNA species that are generated by errors made by the gene expression machinery.

Todd Yeates

Our research covers the areas of molecular, structural and computational biology. Our recent work focuses on large protein assemblies, including (1) giant protein capsids that serve as metabolic organelles in bacteria and (2) designed proteins that self-assemble into cages and other novel nanomaterials.

Friday, October 13, 2017
3440 Molecular Sciences
3:30 pm

Please contact Marla Gonzalez, marla@chem.ucla.edu, x57071 for additional information.