

Rancho BioSciences tranSMART Services

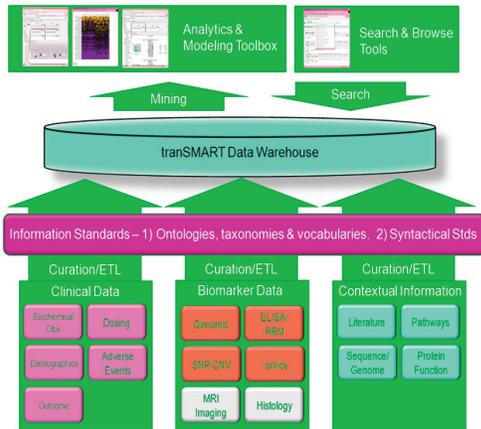
Rancho BioSciences is a Scientific Data Consulting Company that provides support services for tranSMART as well as tranSMART hosting services on either a dedicated server or Amazon Cloud. Rancho BioSciences works with most of the major Pharma, institutions and academics globally. Our team members have years of hands-on experience with tranSMART: we worked with Johnson & Johnson on the initial tranSMART development and were included in a tranSMART publication. Subsequently, we have worked on multiple tranSMART projects including installations, data integration and new tool development. Rancho BioSciences participates in the eTRIKS development meetings, have represented tranSMART at the TM Forum for Disruptive Innovation and have presented at tranSMART Foundation meetings.

About tranSMART

tranSMART was originally developed at Johnson & Johnson and then released to the public domain for anyone to download and use. It is primarily used to bring multiple data types such as OMICS, clinical data, patient history or demographic data, and image data together for analysis that can then be used to find various biomarkers and help with patient stratification in order to improve clinical trial success.

Rancho tranSMART Hosted Services

Rancho provides a hosted Oracle instance of tranSMART for customers that do not want to bring tranSMART in house, and instead want Rancho to support and maintain tranSMART versions and systems for them. We update our instance with new releases and new functionalities available in the public domain plus we conduct our own development such as ETL loaders and improved workflow performance.



Rancho tranSMART Collaborative Environment

Rancho BioSciences has developed collaborative environments for Pharma, institutes and academics to share information and analyzed results via tranSMART. Rancho provides hosted services with Amazon Web Services Cloud offering which includes Oracle licenses. Rancho helps curate data to go in to tranSMART so it can be analyzed and shared within the organization as well as with the external collaborators.

Rancho tranSMART Training

Rancho BioSciences provides online and onsite training for tranSMART using real life case studies. Our on-site training sessions are designed to teach your team how to use tranSMART and then we incorporate real data analyses from your organization into the one-on-one sessions. Each person will leave training seminar knowing how to use tranSMART and will have some analyzed results. We provide training manuals, reference sheets, on-line training sessions and videos to keep everyone up to speed on how to use tranSMART.

Free Trial or Questions?

Call Julie Bryant, **760-717-7881**
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Data Curation Services for tranSMART

At Rancho BioSciences we really emphasize the manual, personalized approach to data curation with attention to detail. Some of the components for our data curation services are listed below:

Data stewardship: We coordinate the timely release of data to the curators.

Semantic alignment and data curation: Inspection of the data variables from each study and semantic alignment for those terms that are overlapping. Data curation involves, for example, unifying and cleaning gene IDs, assigning universal IDs to genes/proteins/SNPs, correction of misspellings in categorical data, classification of the categorical data, as well as application of standard terminology (such as MeSH, MedDRA, CDISC, etc) to applicable terms and checking for data to be in correct range.

Ontology building: Often we will create an ontology for the data to be curated. The ontology has to be convenient for researchers and lend itself to the intended analyses. We are also proficient in the applications of existing ontologies to data, both internal and public.

Data formatting: Curated and cleaned data is then exported in a format that is compatible with the tranSMART database.

Data loading: Rancho Biosciences can assist customers with data loading. We have a team of software engineers who can load the data themselves or assist customers with their ETL needs.

Data quality control: We inspect new datasets and check for data integrity and for performance of all workflows. We will solicit input from the scientists and/or project managers on the loaded studies.

Supporting documentation for the project: data curation rules, data acquisition guidelines, and a project summary are delivered to customer to ensure the reproducibility of the results.

*University of Michigan, Athey and Omenn, 2009

REFERENCES:

Effective knowledge management in translational medicine | Journal of Translational Medicine 2010, 8:68 doi: 10.1186/1479-5876-8-68 | Khasanova, Eric D Perakslis Sandor Szalma, Venkata Koka, Tatiana



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