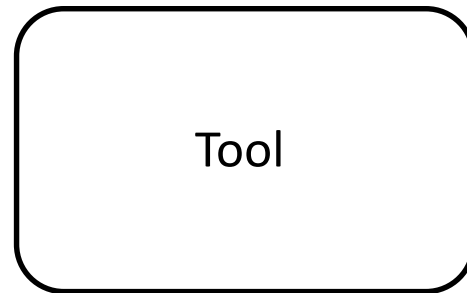
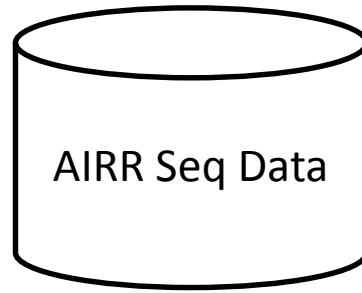


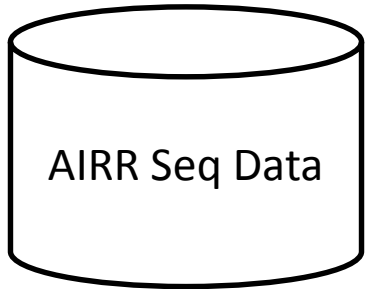
Towards an AIRR Data Commons



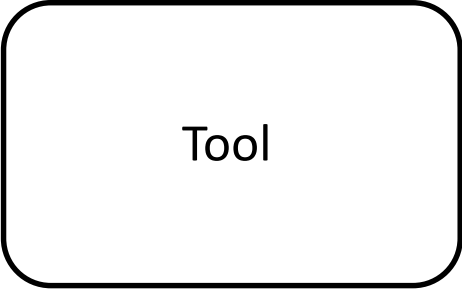
The bad old days...

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



?
Research Questions

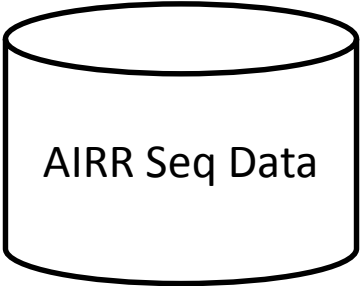


Towards an AIRR Data Commons

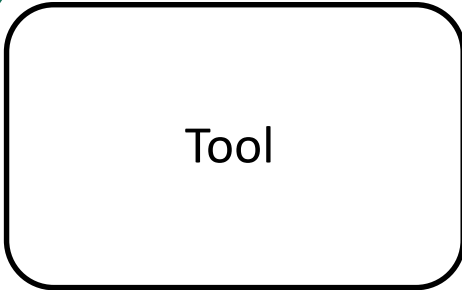
The bad old days...

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



?
Research Questions



Towards an AIRR Data Commons

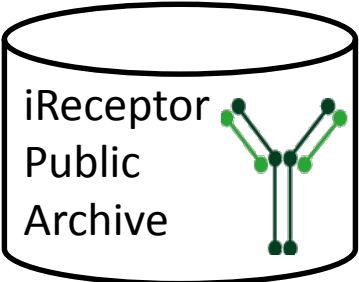
The bad old days...

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

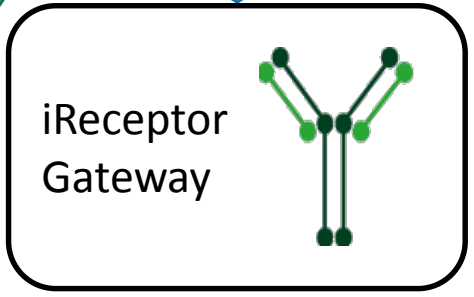
Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



Research Questions



Large community repository

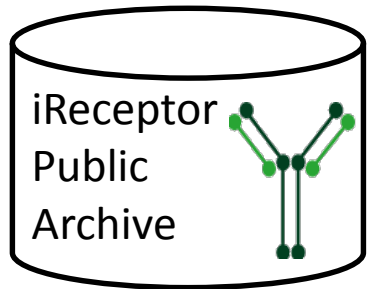


Towards an AIRR Data Commons

Towards an AIRR Data Commons

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

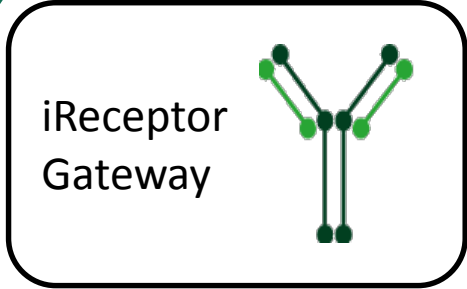
Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



Large community repository

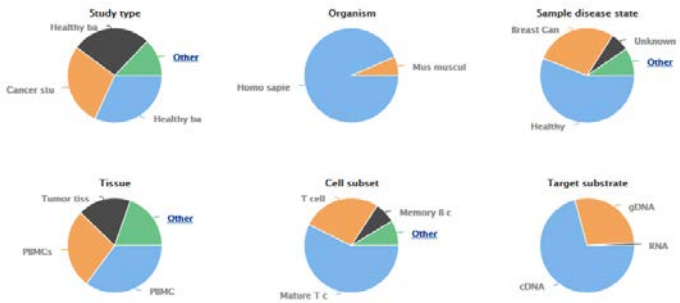


Research Questions



Query Results

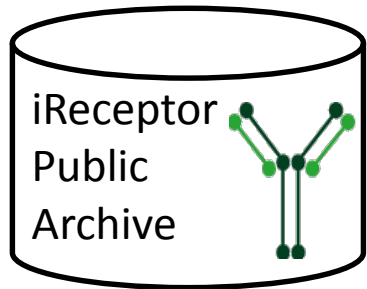
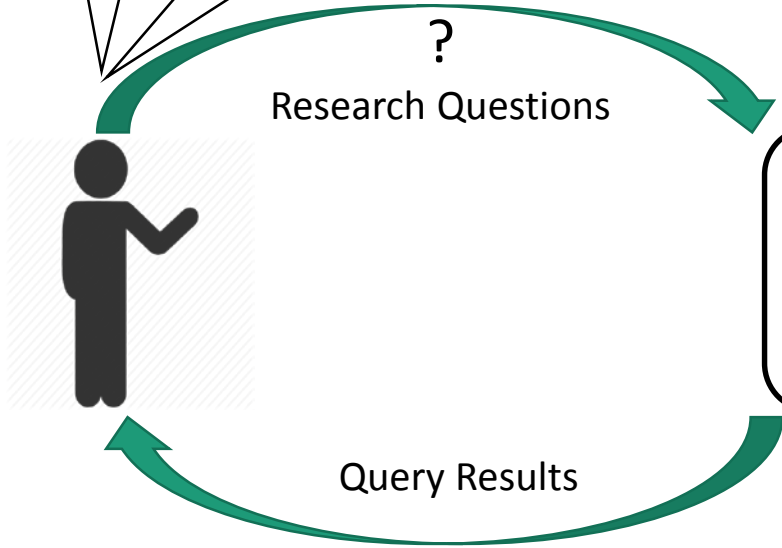
Data download for detailed analysis



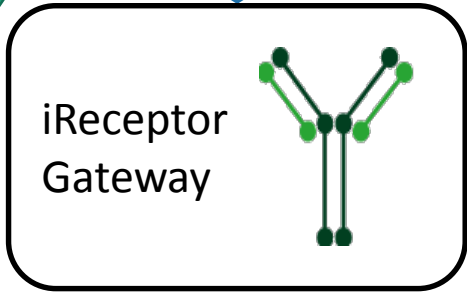
Towards an AIRR Data Commons

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

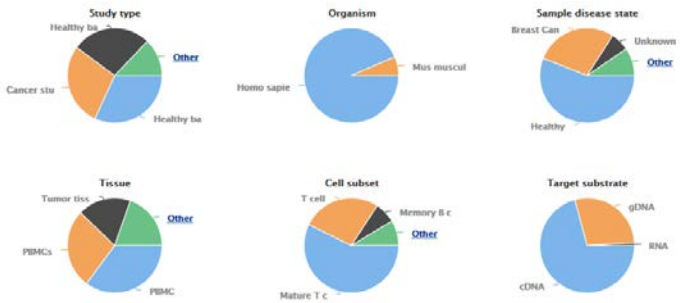
Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



Large community repository



Data download for detailed analysis



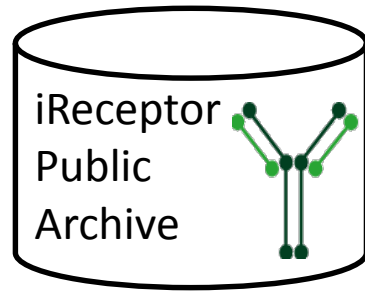
Large community repository

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

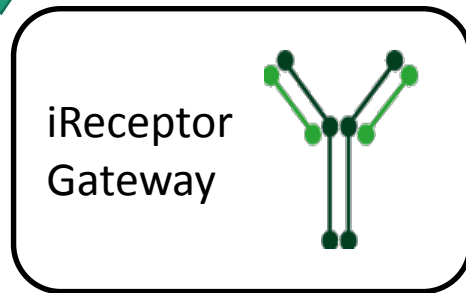
Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



?
Research Questions



Large community repository



Large community repository

Towards an AIRR Data Commons

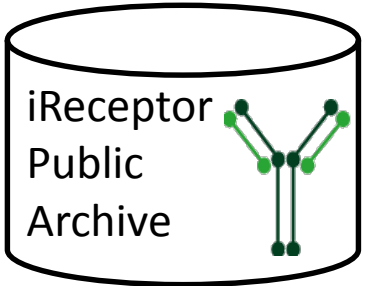
Towards an AIRR Data Commons

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

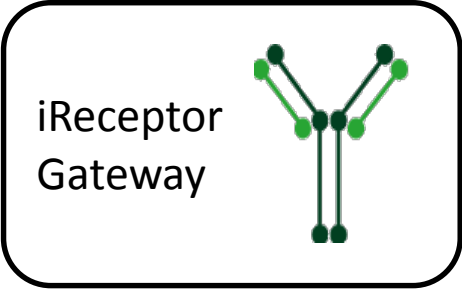
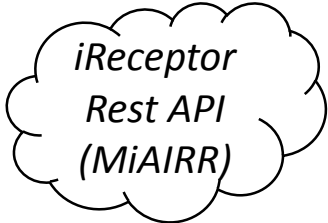
Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



Research Questions



Large community repository



Large community repository

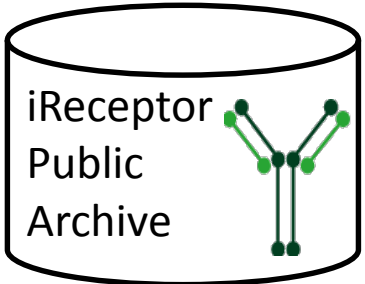
Towards an AIRR Data Commons

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

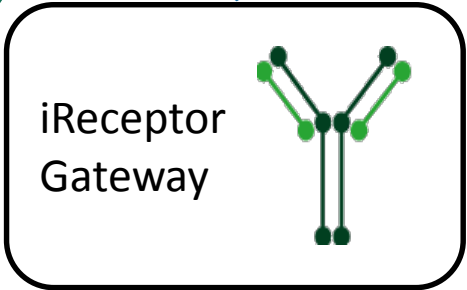
Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



Research Questions



Large community repository



Large community repository

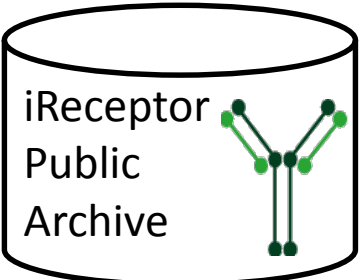
Towards an AIRR Data Commons

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

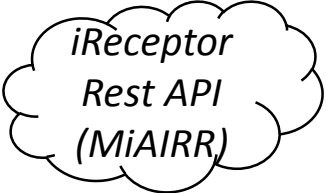
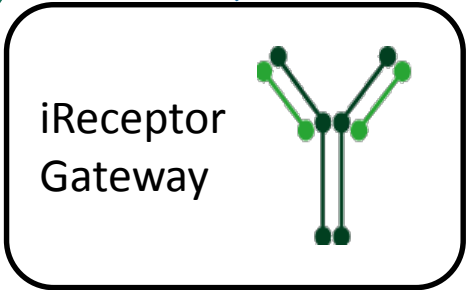
Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



Research Questions

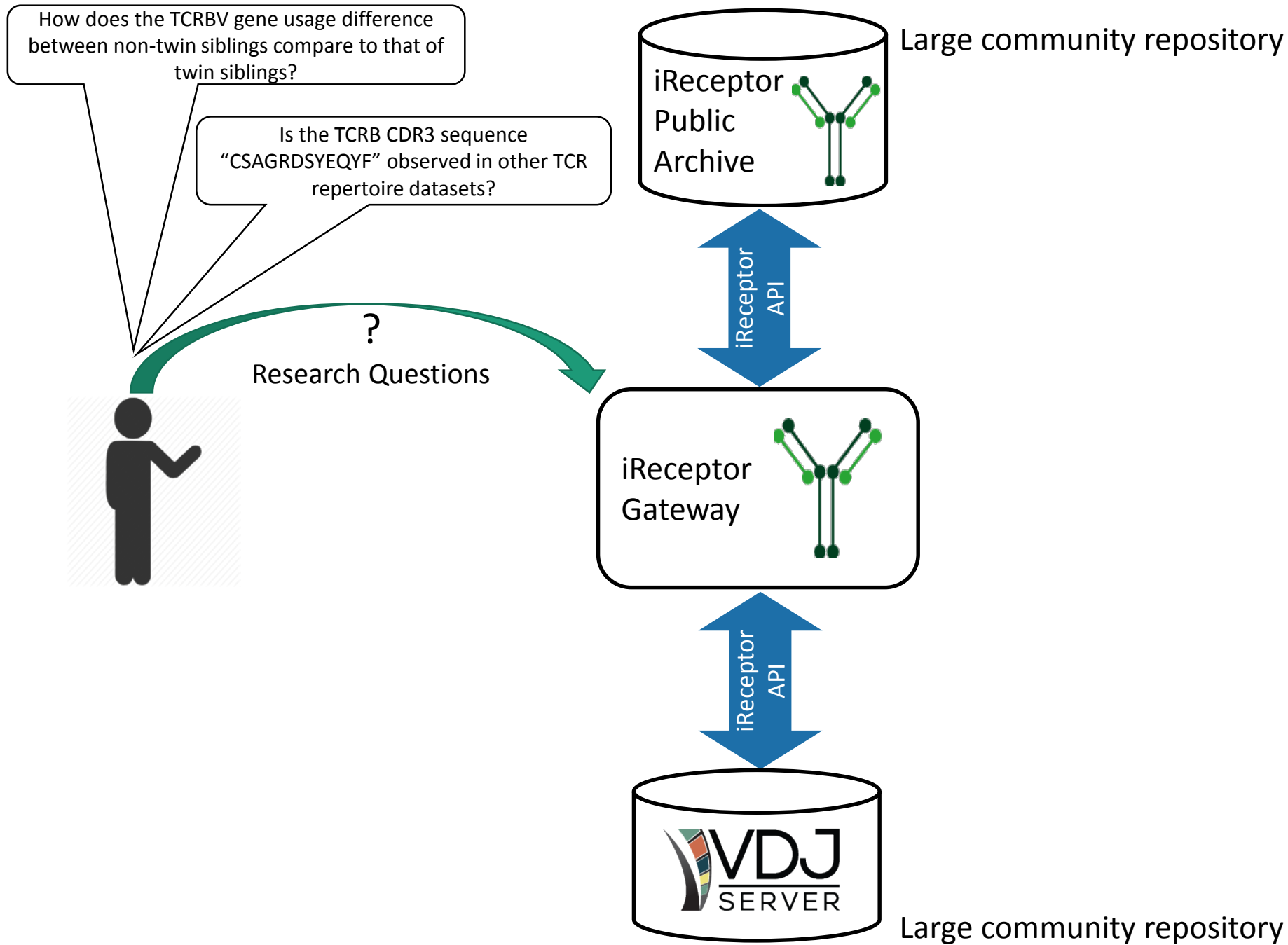


Large community repository



Large community repository

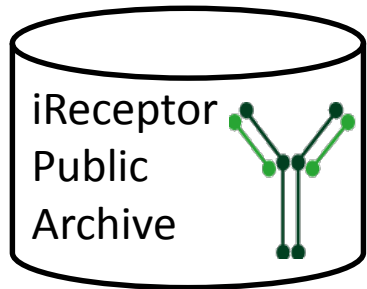
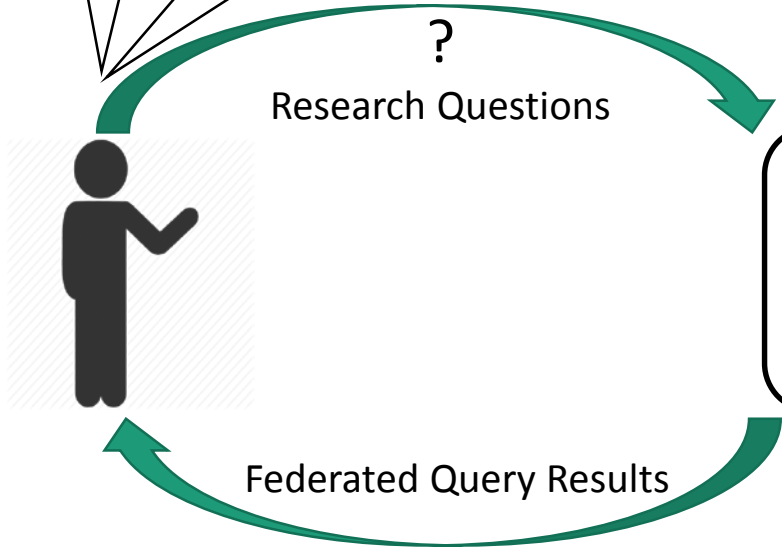
Towards an AIRR Data Commons



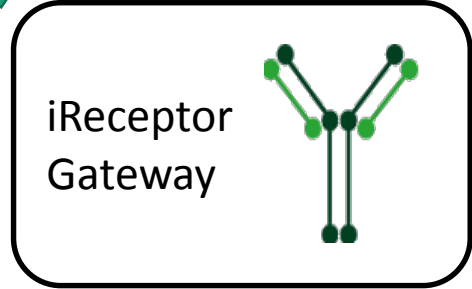
Towards an AIRR Data Commons

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?

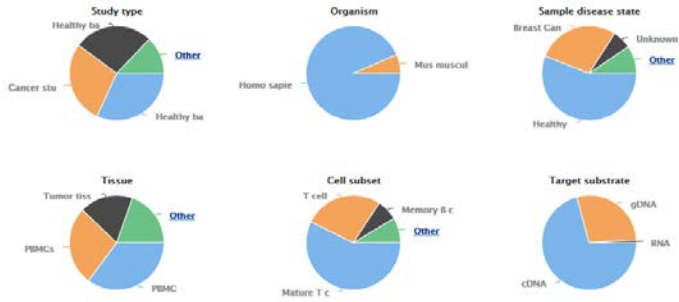


Large community repository



Large community repository

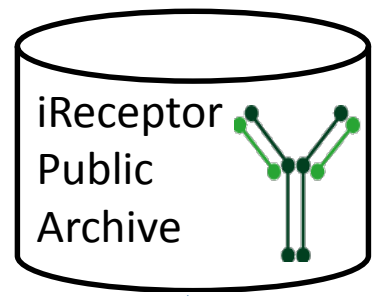
Federated data download for detailed analysis



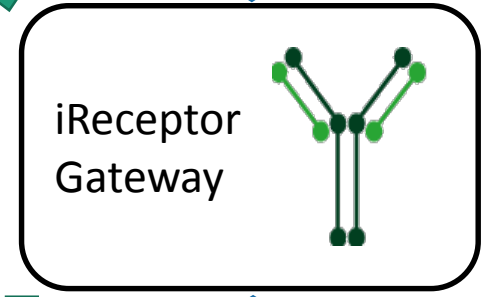
Towards an AIRR Data Commons

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



Large community repository

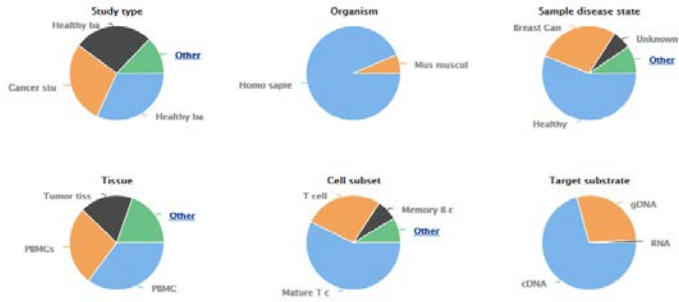


Large community repository

Research Questions

Federated Query Results

Federated data download for detailed analysis

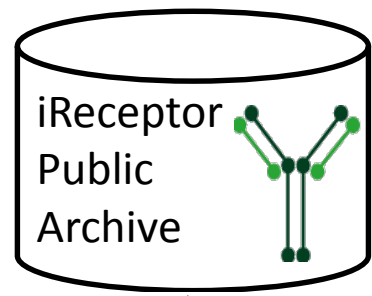
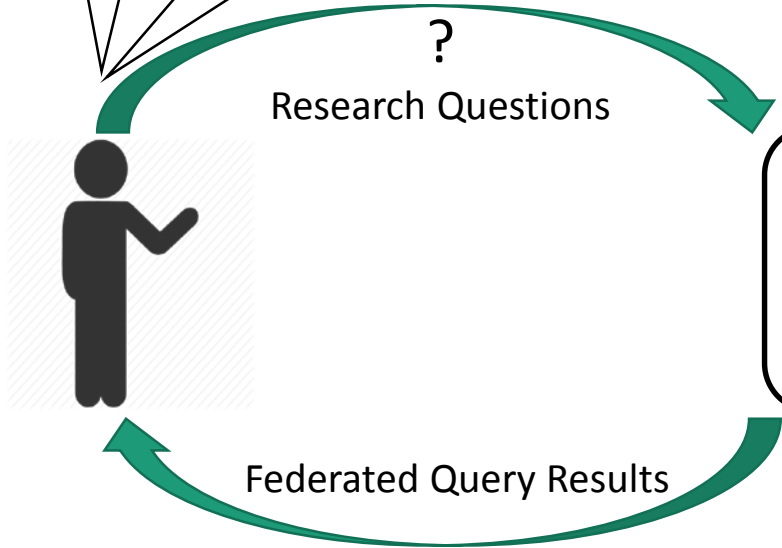


Goal: Distributed network of AIRR repositories

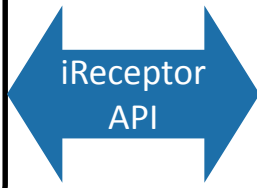
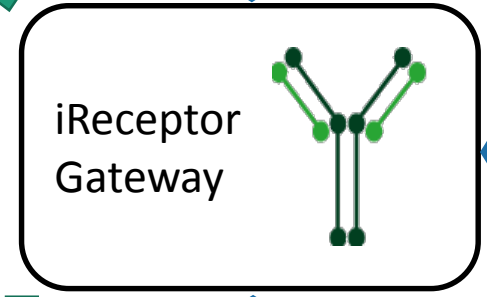
Towards an AIRR Data Commons

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?



Large community repository



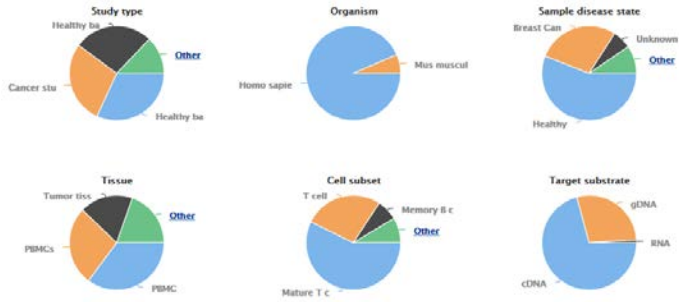
Lab scale repository



Large community repository

Goal: Distributed network of AIRR repositories

Federated data download for detailed analysis



Towards an AIRR Data Commons

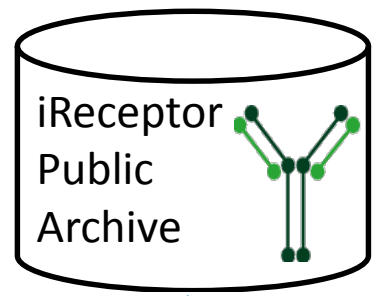
How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?

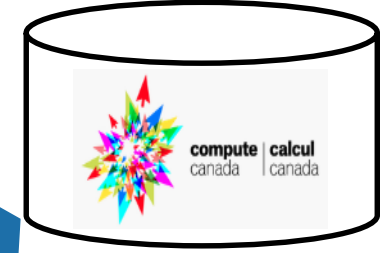
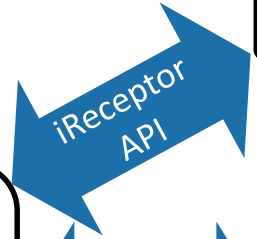
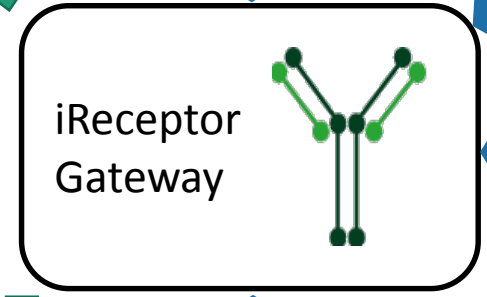
Research Questions



Federated Query Results



Large community repository



Repository close to computation



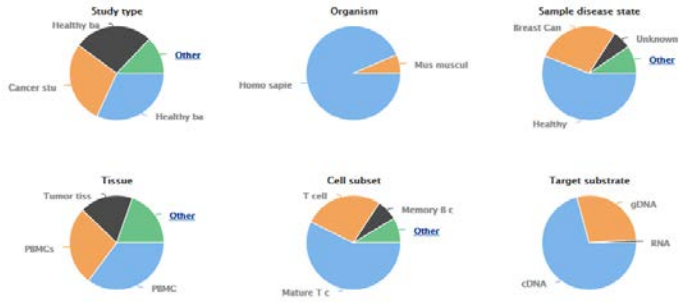
Lab scale repository



Large community repository

Goal: Distributed network of AIRR repositories

Federated data download for detailed analysis



Towards an AIRR Data Commons

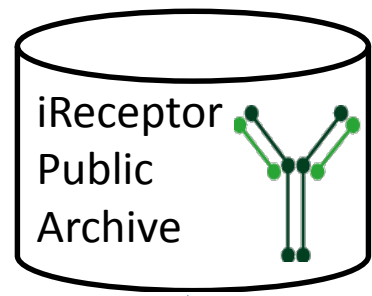
How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?

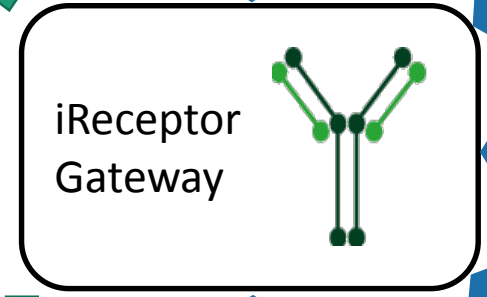
Research Questions



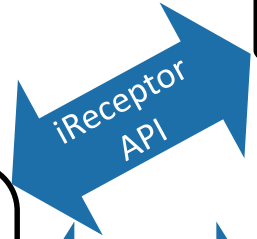
Federated Query Results



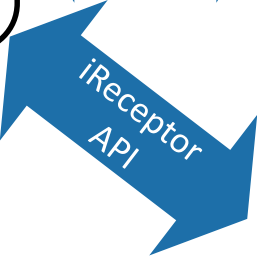
Large community repository



Repository close to computation

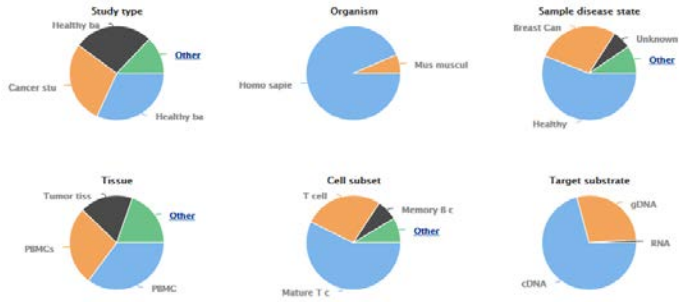


Lab scale repository



Large community repository

Federated data download for detailed analysis



Towards an AIRR Data Commons

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

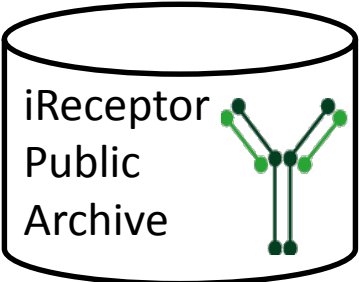
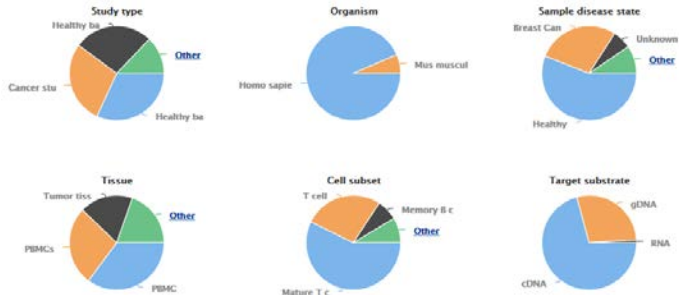
Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?

Research Questions

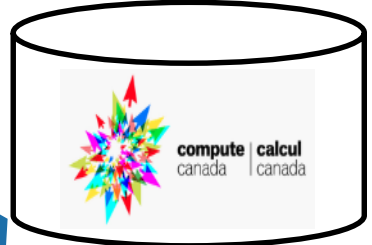
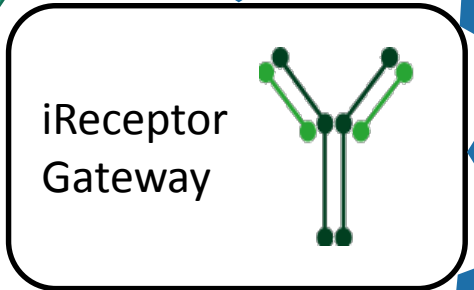


Federated Query Results

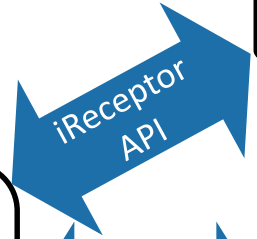
Federated data download for detailed analysis



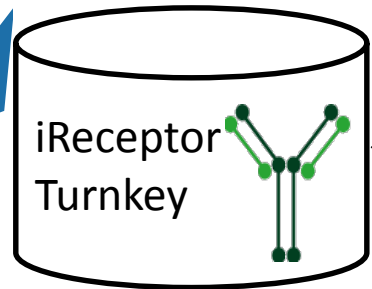
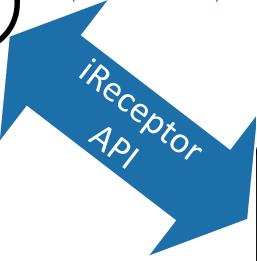
Large community repository



Repository close to computation



Lab scale repository



Your data goes here



Large community repository



Towards an AIRR Data Commons

How does the TCRBV gene usage difference between non-twin siblings compare to that of twin siblings?

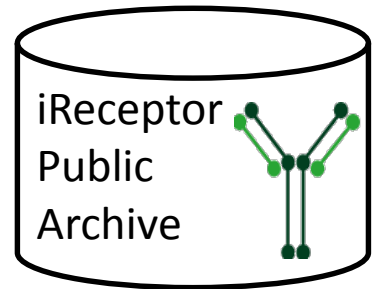
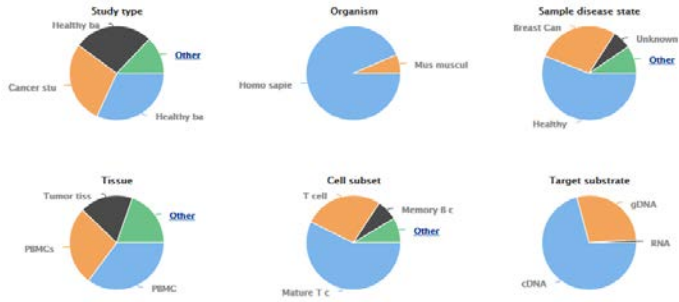
Is the TCRB CDR3 sequence "CSAGRDSYEQYF" observed in other TCR repertoire datasets?

Research Questions

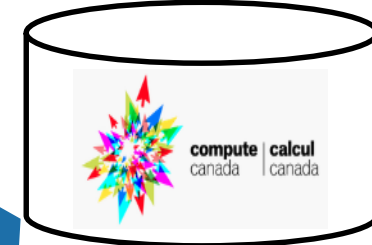
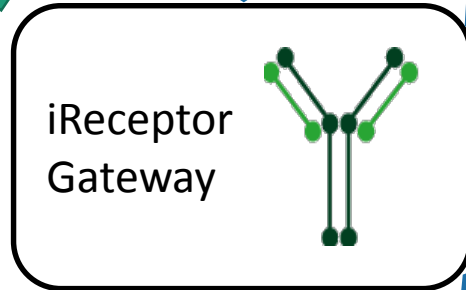


Federated Query Results

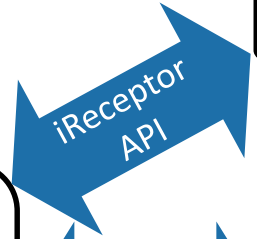
Federated data download for detailed analysis



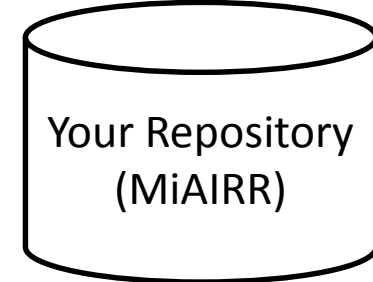
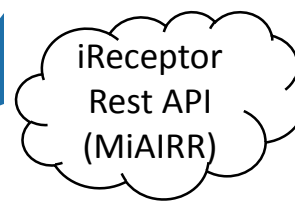
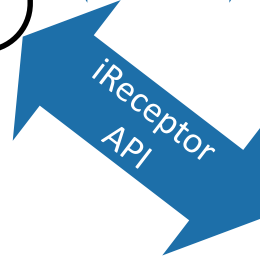
Large community repository



Repository close to computation

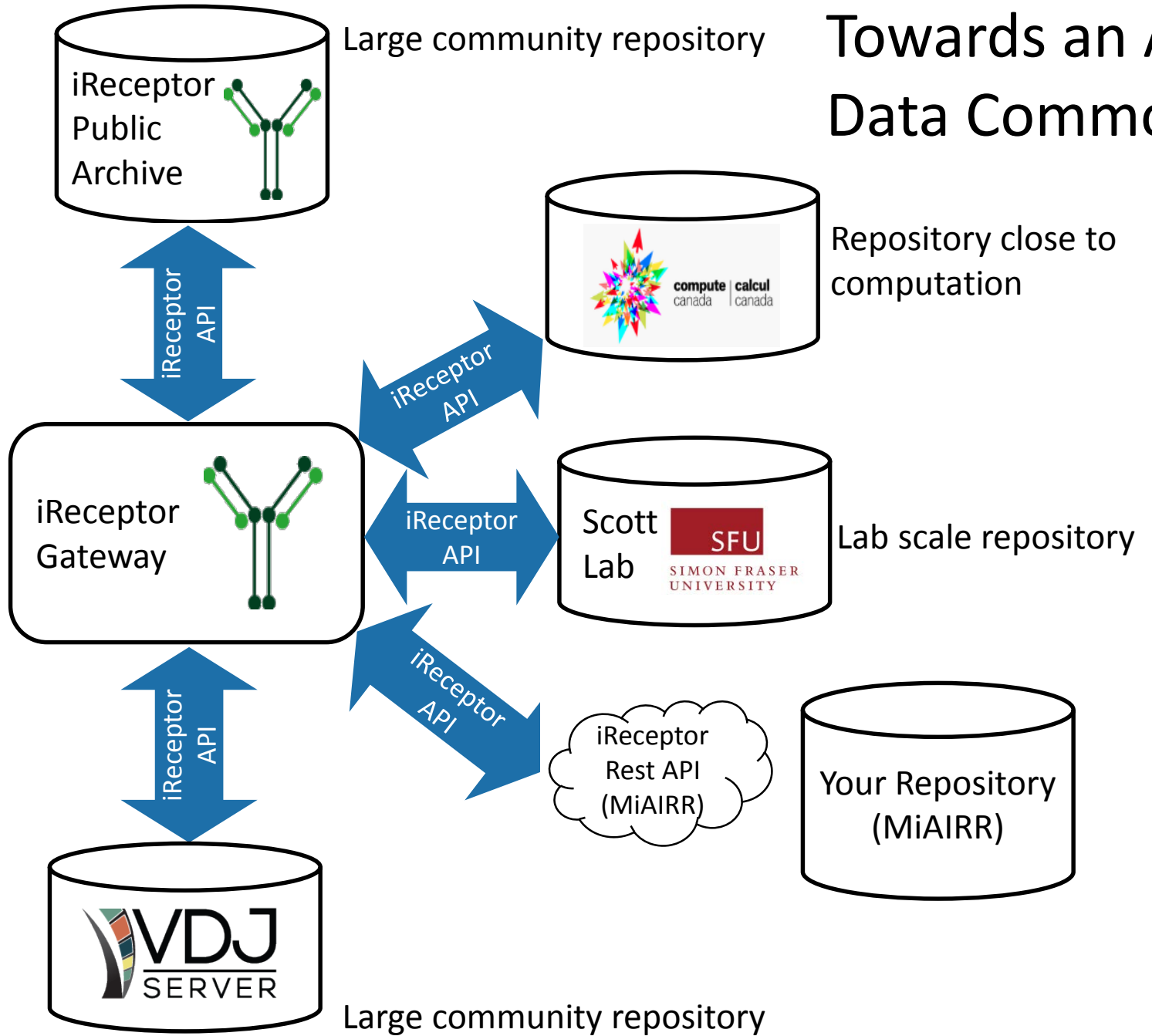


Lab scale repository



Large community repository

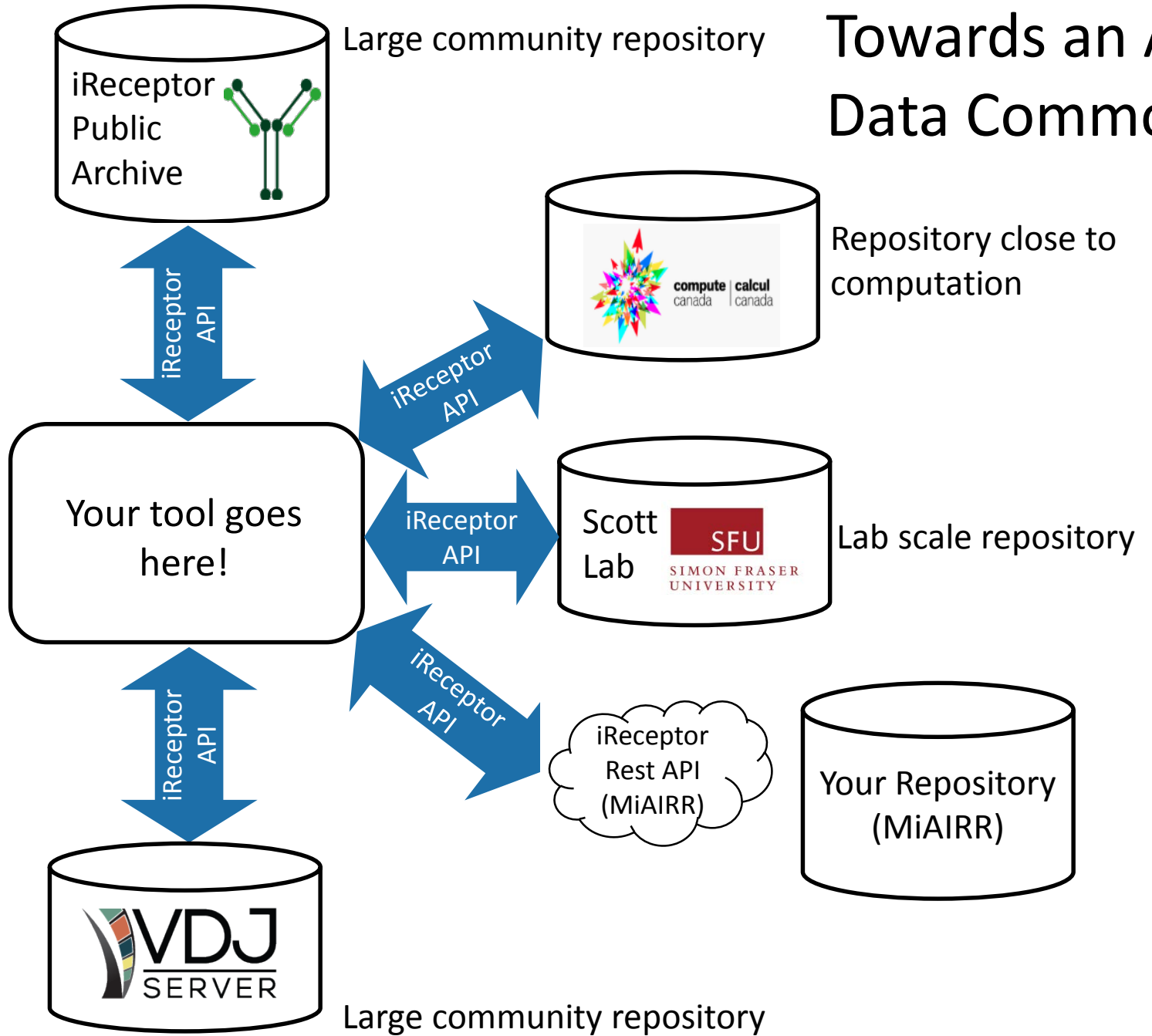
Towards an AIRR Data Commons



Towards an AIRR Data Commons



?



Questions?