



2017 Galaxy Community Conference

Le Corum
Montpellier, France
26-30 June 2017

Hack the Galaxy: 26-27 June
Training: 27-28 June
Conference: 29-30 June

<https://gcc2017.scienceconf.org/>
<https://gcc2017.sched.com/>



#usegalaxy @galaxyproject

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<https://gcc2017.sciencesconf.org/page/sponsors>

Bienvenue !

Welcome to the 2017 Galaxy Community Conference (GCC2017), the eighth annual gathering of the Galaxy Community. GCC2017 features two days of training, two days of Hack the Galaxy, and a two day meeting with accepted and keynote talks, posters, vendor exhibits, birds-of-a-feather (BoF) gatherings, demos, and lightning talks - all about high-throughput biological research and its supporting compute infrastructure. This event also features plenty of time for networking and impromptu gatherings.



We would like to give an enormous thank you to our sponsors and hosts, our instructors, the Scientific Committee, BoF organisers, speakers, demo and poster presenters, and to everyone who contributed to making this event a success.

Merci beaucoup,

The GCC2017 Organising Committee

Hosts



Institut Français de Bioinformatique



IFB consolidates French National centres, services and bioinformatic resources into one Federation

IFB is accelerating life sciences research by delivering tools, data collection, training and **Cloud** Infrastructure for collaborative and reproducible science

IFB is the French node of the **European research Infrastructure ELIXIR**

IFB contributes to the vibrancy of **Galaxy** community by coordinating the French Galaxy Working Group



Network

Wifi is available throughout all conference facilities.

Wifi-name: GCC2017

Password: galaxy2017

Social Media

Unless requested by the speaker, Tweeting and other social media activity are actively encouraged. Post early, post often.



#usegalaxy

@galaxypoint

Meals

The official conference dinner is Thursday evening. It will be held at Le Château du Pouget. Buses will make the journey from Le Corum.

Coffee, other beverages, and light snacks will be available during breaks. Lunch is provided on the first day of Hack the Galaxy, and during the conference. On Tuesday and Wednesday participants can grab lunch in the city center.



Getting Around

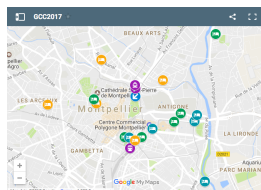


GCC2017 takes place at Le Corum Conference Centre. Le Corum is located in the center of Montpellier, and is easily reached on foot or via public transportation.



See the Conference Centre floor plan on the last page for a map of where events are.

Suggested lodging and several social events are elsewhere around the city centre. A custom Google Map with all conference venues and suggested lodging is also available.



If you are staying in the CROUS student lodging La Colombière, you will want to take the TaM Blue line (#1) from the Hôpital Lapeyronie station to the Corum station. See <http://www.tam-voyages.com/> for information about all TaM lines.

See the map on the second to last page, and <http://bit.ly/gcc2017map>.



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agricultural revolution.

www.inra.fr

GCC2017 Events Overview

Mon 26 June	Tue 27 June	Wed 28 June	Thu 29 June	Fri 30 June
Hack the Galaxy Dev & User Hacks 2 intense days of Galaxy development & data analysis		Training 5 tracks, 15 sessions: covering the full spectrum of Galaxy usage, admin & development	GCC2017 Meeting 2 days of accepted talks, poster sessions, birds-of-a- feather, lightning talks, exhibits, keynotes, and networking.	
	Training Full day, single track, using Galaxy			Gala Dinner

ELIXIR: A DISTRIBUTED INFRASTRUCTURE FOR LIFE-SCIENCE DATA

ELIXIR unites Europe's leading life science organisations in managing and safeguarding the increasing volume of data being generated by publicly funded research. It coordinates and sustains bioinformatics resources across 20 European countries.


[@ELIXIREurope](https://twitter.com/ELIXIREurope)
www.elixir-europe.org

ELIXIR support to Galaxy users and developers

- **ELIXIR Galaxy Working Group:** a network of Galaxy administrators, developers and users
 - **Developing training materials** as part of the Galaxy Training network
 - Collecting training materials through the ELIXIR Training Portal (TeSS)
 - Building a Galaxy ecosystem with **integrated and interconnected resources** for Tools, Workflows and Services
 - Establishing system-agnostic, reproducible and executable environments for bioinformatics software with **BioConda** and **BioContainers**
- Organising training courses and community events for Galaxy users:
- **21 July 2017, Prague, Czech Republic**
Making Galaxy Work for You (ISMB/ECCB tutorial)
 - **8-12 January 2018, Oslo, Norway**
Galaxy Admin Workshop (Registration opens in Autumn 2017)

Visit ELIXIR Galaxy Working Group page to find out more:
www.elixir-europe.org/galaxy-wg



Hack the Galaxy

There are two parallel and co-located *Hack the Galaxy* events at GCC2017. The *Dev Hack* focuses on extending Galaxy code and capabilities, while the *User/Data Hack* focuses on addressing challenging data integration and analysis problems.

Hack the Galaxy runs for two days. **Preregistration is required to attend.**

Monday 26 June: Hack the Galaxy

Time	Sully 1 & Sully 2 (Level 1)
08:00	Conference Desk Open (until 22:00)
09:00	Introductions, Project Ideas, Brownian Motion, Coalescing
10:00	Hack the Galaxy (Dev or Data)
12:30	Catered lunch
13:30	Hack the Galaxy
17:30	Dinner on your own
Continued hacking at Le Corum or the venue of your choice	
22:00	Le Corum Closes

Tuesday 27 June: Hack the Galaxy

Time	Sully 1 & Sully 2 (Level 1)
08:00	Conference Desk Open (until 18:00)
09:00	Group Reports
09:40	Hack the Galaxy (Dev or Data)
12:30	Lunch on your own
13:30	Hack the Galaxy
18:00	Le Corum Closes
18:30	Dinner on your own Continued hacking at venue of your choice

Training

Two full days of training are offered. The first day offers a single track focusing on how to use Galaxy to address biological questions. The second day offers five tracks and 15 topics covering Galaxy usage, development, administration and tool packaging.

Training is hands-on. **Please bring an Ethernet-capable laptop. Ethernet cables and power are provided at each desk. (Wi-fi will be available, but discouraged.)**

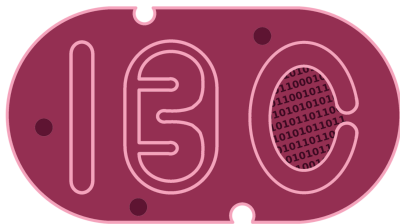
Tuesday 27 June: Using Galaxy Training

Time	Barthez (Level 2)
08:00	Conference Desk Open (until 18:00)
09:00	Galaxy 101: A Gentle Introduction to Galaxy Mallory Freeberg, Mo Heydarian
11:30	Lunch on your own
12:30	RNA-Seq Analysis in Galaxy Mo Heydarian, Mallory Freeberg
15:00	Break
15:30	Visualisation of BIG DATA in Galaxy Aysam Guerler, Saskia Hiltermann, Jeremy Goecks
18:00	Done
18:30	Dinner on your own



Wednesday 28 June: Galaxy Training

Time	Barthez (Level 2)	Rondolet (Level 2)	Sully 1 (Level 1)	Sully 2 (Level 1)	Sully 3 (Level 1)
08:00	Conference Desk Open (until 18:00)				
09:00	Galaxy Architecture John Chilton, Nate Coraor	Writing & Publishing Galaxy Tools M van den Beek, D Blankenberg, D Bouvier, M Čech, G Le Corguillé, N Soranzo, N Stoler	RNA-Seq Analysis in Galaxy Mo Heydarian, Mallory Freeberg	Small Genome de novo Assembly Using Galaxy Simon Gladman	Introduction to Galaxy Admin: Setting up Galaxy as a Service Jochen Bich, Trond Thorbjørnsen, Nikolay Aleksandrov Vzov
11:30	Lunch on your own				
12:30	Advanced Customisation of a Galaxy Instance Björn Grünig, Erick Rasche, Martin Čech	Conda & Containers for Tool Dependencies – a Developer's Perspective Abdulrahman Azab, Marius van den Beek, John Chilton, Nicola Soranzo	Visualisation of BIG DATA in Galaxy Aysam Guerler, Jeremy Goecks	How to Analyze Metagenomics & Amplicon in Galaxy Bérénice Batut, Saskia Hiltmann	Galaxy for Proteomics Clemens Blank, Timothy Griffin, Pratik Jagtap, James Johnson
15:00	Break				
15:30	Advanced Accelerated Galaxy Admin Enis Afgan, Dan Blankenberg, Martin Čech, John Chilton, Nate Coraor, Simon Gladman	Galaxy for Training & Education Bérénice Batut, Björn Grünig	ChIPseq Analysis Using DeepTools & Macs Devon Ryan	Visualization Development in Galaxy Jeremy Goecks, Aysam Guerler, Saskia Hiltmann	SNP Analysis & GWAS Using SNIPlay Alexis Dereeper, Yann Hueber



Institut de biologie computionnelle

IBC is a multidisciplinary research institute focused on Computational Biology, gathers circa 100 researchers from several disciplines: life sciences, computer science and math. It was launched in 2012 for promoting interdisciplinary thinking to address critical biological questions.

One industrial member and 8 national trustees

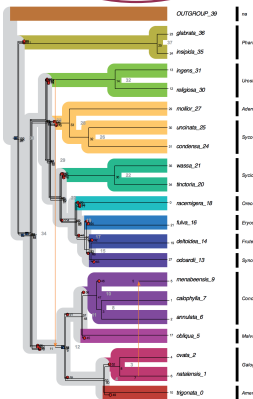
Scientific domains: bioinformatics, molecular biology, medecine, agronomy, evolutionary biology, plant & animal biology, math & computer science.

Overarching aim: Designing computational methods for analysing and modelling massive data in biology, health, agronomy and environment.

Biological applications

- genomics (eg. vertebrate, rice, cancer)
- transcriptomics
- virus and pathogens (HIV, malaria, etc.)
- embryonic development and stem cells
- population genetics
- Next Generation Sequencing analysis tools
- ontologies for agronomy & medecine
 - phylogenetic inference
 - protein structure

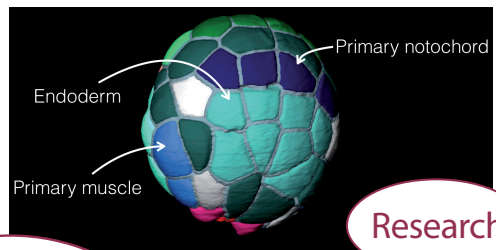
Education



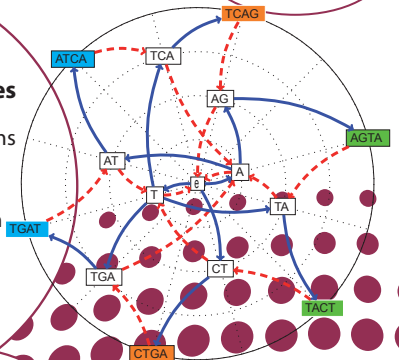
Computational techniques

- algorithms on sequences & graphs
- statistical inference
- machine learning
- modelling for biology & evolution
- image processing
- heterogeneous databases
 - information retrieval
 - big data

Animation



Research



Contacts: Eric Rivals
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 04 67 41 86 64

Conference: Thursday 29 June

Time	Einstein Auditorium (Level 0)
08:00	Conference Desk Open (until 19:00)
09:00	Opening and Welcome Olivier Inizan, INRA; Marilynne Summo, CIRAD
09:15	Session 1: Galaxy Framework Moderator: Jeremy Goecks, OHSU
09:15	Keynote: The Galaxy Project: from the Planck Epoch to Montpellier Anton Nekrutenko, Penn State University; James Taylor, Johns Hopkins University
10:00	Bioconda and BioContainers - Enabling Universal Reproducibility in Galaxy John Chilton, Penn State University
10:20	Building an open, collaborative, online infrastructure for bioinformatics training Bérénice Batut, University of Freiburg
10:40	Break
11:10	Session 2: Galaxy Framework (continued) Moderator: Dave Clements, Johns Hopkins University
11:10	An Educational Framework for Galaxy Administration Nate Coraor, Penn State University; Simon Gladman, Melbourne Bioinformatics / University of Melbourne
11:30	Integrative analysis of hundreds of datasets in Galaxy Geir Kjetil Sandve, University of Oslo
11:50	Galaxy Genome Annotation Project: Galaxy and GMOD for Annotation, Teaching, and Genomic Databases Eric Rasche, Texas A&M University
12:10	Apollo in Galaxy: Increasing Opportunities for Collaborative Genome Annotation Nathan Dunn, Lawrence Berkeley National Lab (LBNL)
12:30	Galaxy at the IFB: From computing to training Victoria Dominguez del Angel, Institut Français de Bioinformatique; Christophe Caron, INRA

Conference: Thursday 29 June (continued)

Time	Einstein Auditorium (Level 0)
12:45	Lunch (and Birds-of-a-Feather)
13:45	Session 3: Tools & Workflows Moderator: Nicola Soranzo, Earlham Institute
13:45	Galaxy Community Update Jeremy Goecks, Oregon Health & Science University; Dan Blankenberg, Penn State University
14:25	The Year of IUC Björn Grüning, University of Freiburg
14:40	Workflow4Metabolomics: Towards an international computing infrastructure and a tools showcase for Metabolomics Gildas Le Corguillé, ABiMS; Franck Giacomoni, PFEM
15:00	South Green Galaxy: a suite of tools for plant genomics Jean-François Dufayard, CIRAD UMR AGAP
15:20	Performing Next Generation Phylogenetic Analyses with NGPhylogeny.fr Damien Correia, Institut Français de Bioinformatique
15:40	Sponsor, Poster and Demo Session

framer



Conference: Thursday 29 June (continued)

Time	Einstein Auditorium (Level 0)
17:00	Session 4 Moderator: Bérénice Batut, University of Freiburg
17:00	The Institute of Computational Biology: an overview Eric Rivals, The Institute of Computational Biology
17:30	Lightning Talks Improving Your Text Life James Johnson, University of Minnesota Supercomputing Institute (MSI) Galaxy-E : Towards an accessible, reproducible and transparent data analysis and management universe dedicated to Ecology Valentin Chambon, Thimothée Virgoulay, MNHN CESCO & Staiton de Biologie Marine de Concarneau The Galaxy Gateway on F1000Research Holly Murray, F1000, Science Navigation Group GalaxyCat - The online catalog of Galaxy tools across instances Julien Seiler, Stéphanie Le Gras, Institut de Génétique et de Biologie Moléculaire et Cellulaire, CNRS Galaxy at scale: Analyzing thousands of single cell transcriptomes Mo Heydarian, Johns Hopkins University
18:00	Done (and Birds-of-a-Feather)
19:00	Gala Dinner @ Chateau du Pouget



Conference: Friday 30 June

Time	Einstein Auditorium (Level 0)
08:00	Conference Desk Open (until 18:00)
09:00	Session 5: Galaxy for Life Science and Medicine Moderator: Christophe Antoniewski, Institut de Biologie Paris-Seine
09:10	Keynote: Personalized Analysis of Cancer Data: From Genes to Pathways (and Back) Eytan Domany, Weizmann Institute of Science
10:00	Comparing hundreds of RNA-seq libraries using Galaxy and SeqResults Brad Langhorst, New England Biolabs
10:20	Approaches for small RNA-seq analysis in Galaxy Mallory Freeberg, Johns Hopkins University
10:40	Break
11:10	Session 6: Galaxy for Life Science and Medicine Moderator: Thérèse Commes, INSERM
11:10	COMBAT TB: an integrated environment for Tuberculosis data analysis and surveillance Peter Van Heusden, South African National Bioinformatics Institute (SANBI)
11:30	The RNA Workbench - reproducible, transparent, and accessible RNA research Florian Eggenhofer, University of Freiburg
11:50	Interaction Hub: a comprehensive Galaxy-based chromatin folding database, browser, and analysis platform Michael Sauria, Johns Hopkins University
12:10	Mechanizing our biologists with Galaxy and IRIDA platforms Philip Mabon, Public Health Agency of Canada
12:40	Lunch (and Birds-of-a-Feather)

Conference: Friday 30 June (continued)

Time	Einstein Auditorium (Level 0)
13:45	Session 7: Galaxy in today's infrastructures Moderator: Björn Grüning, University of Freiburg
13:45	ELIXIR supports Galaxy users and developers Frederik Coppens, ELIXIR Belgium & VIB
14:00	Advancing metaproteomics research via community-based informatics development and dissemination Pratik Jagtap, University of Minnesota
14:20	Making Galaxy User Interface Pluggable with Webhooks Martin Čech, Penn State University; Björn Grüning, University of Freiburg
14:40	A reproducible data analysis environment for next-generation sequencing on public cloud computer Manabu Ishii, RIKEN ACCC Bioinformatics Research Unit
15:00	Developing analytical workflows for plant genomics through the integration of Galaxy and Tripal Sean Buehler, University of Connecticut
15:20	Sponsor, Poster and Demo Session

Looking for something?
<https://galaxyproject.org/search>

 Use ~ Community ~ Education ~ Deploy & Develop ~ Support ~

Searching the Galaxy

Welcome to the comprehensive Galaxy search interface. This is a Google Custom Search Engine that will search all things Galaxy. This includes all the pages on the Hub, the codebase (Galaxy and related projects), the mailing lists, biostars, and more.

If you haven't already, enter your query into the box in the masthead, and results will appear below.

All results Use Hub Corpus Code Admin/Dev Discussion Shared Tools Requests

About 8,910 results (0.42 seconds)

Did you mean: [gcc 2017](#)



Galaxy Community Conference 2017 - Sciencesconf.org
GCC2017 will include keynote talks and exhibitors, and plenty of networking opportunities. There are also three days of pre-conference activities, including ...
<https://gcc2017.sciencesconf.org/>
Labeled [Admin/Dev](#) [Use](#)



GCC2017 Call for Host Proposals
Sep 14, 2015 ... Galaxy's informal policy of rotating between North America and elsewhere every other year is now a formal policy: Hosts for GCC2017 need to ...
<https://galaxyproject.org/news/gcc2017-call-for-host/>
Labeled [Admin/Dev](#) [Hub](#) [Use](#)



2017 Galaxy Community Conference (GCC2017)
GCC2017 is the 8th annual gathering of the Galaxy community. The conference will include keynotes and accepted talks, poster sessions, demos, ...
<https://galaxyproject.org/events/2017-gcc/>
Labeled [Admin/Dev](#) [Hub](#) [Use](#)

Conference: Friday 30 June (continued)

Time	Einstein Auditorium (Level 0)
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16:35

Session 8

Moderator: Virginie Rossard, INRA

16:35 Lightning Talks

Using visual programming in Cervical cancer data of The Cancer Genome Atlas

Thais Hosokawa, Barretos Cancer Hospital

Analyzing Relationships among Clinical Factors of Cancer Patients by Regression Analysis

Sugandima Vidanagamachchi, Tamara Waidyarathna,
University of Ruhuna

ToolDog - generating tool descriptors from the ELIXIR tool registry

Kenzo-Hugo Hillion, Center of Bioinformatics, Biostatistics
and Integrative Biology (C3BI), Institut Pasteur de Paris

Pushing the limits of job flexibility on HPC

Carrie Ganote, Indiana University

Pulling the Galaxy's Strings

Jeffrey Miller, University of Iowa

Using Galaxy as a platform for continuous software development

Geir Kjetil Sandve, Boris Simovski, University of Oslo

Automated Generation of Complex Toolkits for Galaxy

Daniel Blankenberg, Penn State / Galaxy Team

Hack the Galaxy: Data Report

Organizers

Hack the Galaxy: Dev Report

Organizers

JBrowse & Circos Tool Updates

Eric Rasche, Texas A&M University

Parsec: Intergalactic DevOps and Analysis Automation

Eric Rasche, Texas A&M University

17:42 GCC2018 Launch

Dave Clements, Johns Hopkins University

17:50 GCC2017 Closing

GCC2017 Organisers

18:00

Fini

Lightning Talks

Topics for lightning talks were solicited before the meeting. They will be presented during Session 4, on Thursday and Session 8 on Friday. There may also be last minute openings, and if you wish to give a lightning talk, please send a proposal to the GCC2017-Scientific Program Committee <gcc_2017_scientific@groupe.fr> before the start of Session 2 (Thursday) or the start of Session 6 (Friday). The slides for all lightning talks will be made available on the conference web site, and the talks may be videotaped and also posted on the conference web site.

Goals

This is your opportunity to give an impassioned and enthralling talk about something that you care about - but you only have 300 seconds. Make every one count, because your audience may include people suffering from limited attention spans this late in the proceedings.

Timing

Lightning talks are *short*.

- We will tell you when there are 2 minutes left.
- At 1 minute left we will take over the presentation laptop and start switching to the next set of slides.
- At 0 minutes left the next talk will start, no matter what.

Slides

- Your slides (as PDF or PowerPoint or ...) should be on the presentation computer before the session starts (talk to Dave Clements)

INTEGRATING WORKFLOWS WITH PAPERS

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See <http://bit.ly/gcc2017lightning> for the current list of lightning talks.

Birds of a Feather Meetups

There is no better place than a Galaxy Community Conference to meet and learn from others doing high-throughput biology. GCC2017 includes *Birds of a Feather* (BoF) meetups that are informal gatherings based on participants' shared interests. BoFs are encouraged throughout GCC2017, particularly during the *flocking* sessions each day. These sessions are time set aside specifically for Birds of a Feather gatherings.

If you are interested in a BoF then *just show up*. If you want to organize a BoF, see <http://bit.ly/gcc2017createbof> for how to get one going. It's never too late to start a BoF, and once one is proposed the organizers will get the word out about it.

The BoFs below were planned when this program was printed. See http://bit.ly/gcc2017_bofs for the current list.

Thursday BoFs

Arts & Crafts

Thursday & Friday, 29-30 June, Lunch

Organizers: Saskia Hiltemann, Erasmus MC; Eric Rasche Texas A&M

GCC sure can be overwhelming sometimes! This BoF is a quiet place to do some stress free, science related, arts and crafts. A&C was a big hit at GCC2016.

<http://sched.co/BABe>

Reproducibility best practices for computational analyses involving large numbers of datasets

Thursday, 29 June, Lunch

Organizer: Geir Kjetil Sandve, University of Oslo

The aim for this BoF is a very concrete one: to initiate a collaborative project towards a manuscript on best practices for reproducibility and transparency when doing computational analysis involving large numbers of datasets. Anyone curious or potentially interested in contributing to such a manuscript is encouraged to join!



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Ensuring that omics analyses are truly transparent and reproducible is always a challenge, and even more so when analyses involve large numbers of datasets. The exact scope of a manuscript on this topic and organization of the work is open for discussion at the BoF session. How to make transparent analyses using Galaxy and dataset collections will clearly be central. How much focus to put on comparison with alternative interfaces is open for discussion. As for organization of the work, collaborative editing on an open document might serve as a main pillar, but this would also be a point of discussion at the BoF.

<http://sched.co/BGzq>

Supporting the non-coder Galaxy community *Thurs, 29 June, Lunch*

Organizer: Peter Van Heusden, SANBI

How can we support Galaxy community members whose (main) contribution is not coding? I.e. they might be doing training (although GTN is generally covering these people), being "ambassadors" for Galaxy, doing user support. Some questions:

1. How can these people be recognised and
2. what communication channels can enhance this part of the community and
3. how can this community and the coder / developer community link?

<http://sched.co/BJ0D>

GalaxyAdmins

Thursday, 29 June, 18:05 - 18:45

Organizer: Dave Clements, Johns Hopkins University

GalaxyAdmins is a group of people that are responsible for administering Galaxy instances. We meet online and at events like GCC2017, where a lot of us happen to be. GCC2017 will be the 5th in-person GalaxyAdmins meetup. Past meetups have resulted in action items for the coming year. This meetup will discuss plans for the coming year, GalaxyAdmins leadership, and whatever else you want to talk about.

<http://sched.co/B4DP>

Genome Annotation in Galaxy

Thursday, 29 June, 18:05 - 18:45

Organizers: Anthony Bretaudeau, INRA, BIPAA and GenOuest platforms; Nathan Dunn, Lawrence Berkeley Lab; Björn Grüning, University of Freiburg; Eric Rasche, Texas A&M

Discuss genome annotation pipelines in Galaxy. Integration of tools, current / future offerings, needs of biologists. (<https://galaxy-genome-annotation.github.io/>).

<http://sched.co/B78V>

Friday BoFs

Arts & Crafts

Lunch

Organizers: Saskia Hiltermann, Erasmus MC; Eric Rasche Texas A&M

GCC sure can be overwhelming sometimes! This BoF is a quiet place to do some stress free, science related, arts and crafts. A&C was a big hit at GCC2016.

<http://sched.co/BCVY>

Come Together: Exploring Proteomic Analysis within Galaxy

Organizers: Tim Griffin, Pratik Jagtap, James Johnson; University of Minnesota

Lunch

Mass spectrometry-based proteomic analysis is evolving along with new and emerging research disciplines. For example, advances in genomics and transcriptomics have offered opportunities in multi-omics exploration of biological systems. In particular, conversion of RNASeq data into protein FASTA format greatly aids the field of proteogenomics. Moreover, functional microbiome research is being greatly helped by newer developments in metaproteomics research. There is a need for improved Galaxy workflows for these multi-omics research areas and emerging methods such as data-independent analysis. The GCC offers a great forum for community to come together and discuss challenges, opportunities and possibilities.

<http://sched.co/BJ5t>

Containerized Galaxy Deployments and Advanced Testing

Organizers: Johns Chilton, Penn State University; Björn Grüning, University of Freiburg

Lunch

During this buzzword heavy BoF, we hope to gather deployers interested in a broad range of topics from big picture choices (such as DevOps, Containers, and Clouds) to specific technologies (for instance Ansible, Condor, and Kubernetes) and specific Galaxy communities (including docker-galaxy-stable, CloudMan, and GalaxyKickStart). This last year has seen significant sharing and splintering of resources for containerized deployments - we hope this BoF can serve as a venue to coordinate plans for the next year to maximize reuse we can accomplish going forward.

Possible Topics Include:

- Discuss plans for major Galaxy virtualization projects for the next year - including at least docker-galaxy-stable but hopefully more such CloudMan and GalaxyKickStart.
- Discuss different options for deploying Galaxy to Kubernetes / Swarm / OpenShift and potentially coordinate reuse across methods.

- Discuss multi-container deployment options being developed as part of the docker-galaxy-stable project including planned development and testing of complete deployment recipes for Kubernetes, Swarm, and OpenShift.
- Discuss plans for major Galaxy-related Ansible efforts this year and develop plans to reduce duplication across projects.
- Discuss our efforts to automate testing of Galaxy deployment artifacts over the last year and how they can be leveraged. Discuss plans for future testing.

<http://sched.co/BCVj>

Galaxy for Core Facilities

Lunch

Organizer: Brad Langhorst, New England BioLabs

Do you work with a sequencing core facility? How are you using galaxy (QC, sample tracking, etc)? What missing things do you need?

<http://sched.co/BJby>

Trackster support group

Lunch

Organizers: Frederik Coppens, ELIXIR Belgium & VIB; Mo Heydarian, Johns Hopkins University; Michael Sauria, Johns Hopkins University

We will gather to discuss Trackster, Galaxy's very own genome browser. We'll discuss the benefits of Trackster and start an ongoing discussion on what features could be added to further increase the utility of this valuable feature.

<http://sched.co/BHI3>

Social Events

We have numerous scheduled social events at GCC2017. However, GCC is one large social event for our community. When you're free, skip checking your email and introduce yourself to the person next to you. You have at least one thing in common - you both have excellent taste in choosing conferences! If you dig deeper, you'll likely find that you have much more in common and maybe shared interests. Many fruitful collaborations have been initiated at GCC. Strike up a conversation!

Conference Dinner

The official conference dinner is Thursday evening. It will be held at Le Château du Pouget. Buses will make the journey from, and return to Le Corum. Don't miss it.

Capture the Flag: Hack the Universe

Saskia Hilemann and Eric Rasche have put together a *Capture the Flag (CTF)* event for GCC2017. Hack the Universe is a competition where you try to hack into a Galaxy instance and learn about Galaxy, Galaxy Administration, vulnerabilities, and good security practices. CTF will start on the first night of GCC2017, and run until a week after the conference.

Anyone can participate! We *strongly* recommend you form teams involving at least one bioinformatician or biologist, and one computer person. *Get out there, make new friends!*

Interested? See <https://ctf.galaxians.org/> for more and visit Saskia and Eric at the Arts & Crafts BoF.

BoFs

BoFs aren't focused on social interactions, but they are an excellent way to meet other participants that are eager to discuss a common interest. The Arts & Crafts BoF, however, is all about relaxing with your fellow participants.



INDIANA UNIVERSITY

Travel Fellowships / Galaxy Community Fund

Keynotes & Accepted Talks

The full abstracts are available online.

Session 1, Thursday, 29 June, morning

The Evolution of Galaxy: A rough Timeline

<http://sched.co/B4z8>

Anton Nekrutenko 1, James Taylor 2

1. Penn State University
2. Johns Hopkins University

Bioconda and BioContainers - Enabling Universal Reproducibility in Galaxy

<http://sched.co/B4zG>

John Chilton 1*, Marius Van Den Beek 2, Björn Grüning 3, Galaxy Team

1. Department of Biochemistry and Molecular Biology, Penn State University, University Park, PA 16801 - United States
 2. Institut Curie, Institut Curie, 26 rue d'Ulm 75248 PARIS CEDEX 05 - France
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Building an open, collaborative, online infrastructure for bioinformatics training

<http://sched.co/B55d>

Bérénice Batut 1*, Galaxy Training Network 2, Dave Clements 3*, Björn Grüning 4*

<http://sched.co/B55d>

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 2. Galaxy Training Network
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Session 2, Thursday, 29 June, late morning

An Educational Framework for Galaxy Administration

<http://sched.co/B56f>

Martin Cech 1*, Enis Afghan 1, Nate Coraor 1, Simon Gladman 2, Daniel Blankenberg 1, Björn Grüning 3, Ross Lazarus, Dave Clements 4

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Integrative analysis of hundreds of datasets in Galaxy

<http://sched.co/B56o>

Geir Kjetil Sandve 1, Boris Simovski 1, Sveinung Gundersen, Diana Domanska, Christin Lund-Andersen

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Galaxy Genome Annotation Project: Galaxy and GMOD for Annotation, Teaching, and Genomic Databases

<http://sched.co/B59G>

Eric Rasche 1, Björn Grüning 2, Nathan Dunn 3, Anthony Bretaudeau 4

1. Center for Phage Technology, Texas A&M University (CPT)
2. Department of Computer Science [Freiburg], Georges-Köhler-Allee 79, 79108 Freiburg, Germany - Germany
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4. BIPAA/GenOuest, Institut National de la Recherche Agronomique – INRA

Apollo in Galaxy: Increasing Opportunities for Collaborative Genome Annotation

<http://sched.co/B57M>

Nathan Dunn 1*, Monica Munoz-Torres 1, Deepak Unni 2, Eric Rasche 3, Eric Yao 4, Ian Holmes 4, Christine Elisk 2, Suzanna Lewis 1

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Galaxy at the IFB: From Compute to Training

<http://sched.co/B8XT>

Victoria Dominguez del Angel 1, Cristophe Caron 2

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2. INRA

Session 3, Thursday, 29 June, early afternoon

Galaxy Community Update

<http://sched.co/B57W>

Jeremy Goecks 1, Dan Blankenberg 2

1. Oregon Health & Science University
2. Penn State University

The Year of IUC

<http://sched.co/B57a>

Björn Grüning 1*, Bérénice Batut 1, Marius Van Den Beek 2, Daniel Blankenberg 3, Dave Bouvier 3, Anthony Bretaudeau 4, Nate Coraor 3, John Chilton 3, Peter Cock 5, Saskia Hiltemann 6, Youri Hoogstrate 6, James Johnson 7, Greg Von Kuster 8, Lance Parsons 9, Eric Rasche 10, Nicola Soranzo 11

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Workflow4Metabolomics: Towards an international computing infrastructure and a tools showcase for Metabolomics

<http://sched.co/B58O>

Gildas Le Corguillé 1, Franck Giacomoni 2, Pierrick Roger-Mele 3, Christophe Duperier 2, Mélanie Pétéra 2, Yann Guitton 4, Marie Tremblay-Franco 5, Jean-François Martin 5, Cécile Canlet 5, Alexis Delabrière 3, Etienne Thévenot 3, Christophe Caron 6

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6. Ingenium, Institut national de la recherche agronomique (INRA), Toulouse - France

South Green Galaxy: a suite of tools for plant genomics

<http://sched.co/B595>

Jean-François Dufayard 1, Marilyne Summo 2, Gaëtan Droc 2, Mathieu Rouard 1, Bertrand Pitollat 1, Paul Pastor 1, Delphine Larivière 2, Frédéric De Lamotte 3, Stéphanie Bocs 1, Manuel Ruiz 1, Felix Homa 1, Guillaume Martin 1, Gautier SARAH 4, Sébastien RAVEL 5, Vincent Maillol 1, Jonathan Lorenzo 6, Alexis Dereeper 1

1. CIRAD UMR AGAP (AGAP)
2. Centre de Coopération Internationale en Recherche Agronomique pour le Développement (CIRAD)
3. INRA UMR AGAP (AGAP)
4. Amélioration Génétique et Adaptation des Plantes Méditerranéennes et Tropicales (AGAP)
5. Biologie et génétique des interactions plantes-parasites pour la protection intégrée (BGPI)
6. Institut Français de Bioinformatique (IFB)

Performing Next Generation Phylogenetic Analyses with NGPhylogeny.fr

<http://sched.co/B598>

Damien Correia 1, 2, 3*, Vincent Lefort 4, Olivia Doppelt-Azeroual 2, Fabien Mareuil 2, Sarah Cohen-Boulakia 3*, Olivier Gascuel 2, 4

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Session 4, Thursday, 29 June, late afternoon

The Institute of Computational Biology: an overview

<http://sched.co/B59E>

Eric Rivals I

I. The Institute of Computational Biology

Lightning Talks

Improving Your Text Life

<http://sched.co/B9jV>

James Johnson I

I. University of Minnesota Supercomputing Institute (MSI)

Galaxy-E : Towards an accessible, reproducible and transparent data analysis and management universe dedicated to Ecology

<http://sched.co/B5xf>

Valentin Chambon, Thimothée Virgoulay, Eloïse Trigodet, Marie Delannoy, Marianne Linares, Grégoire Loïs, Romain Julliard, Yvan Le Bras I, *

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The Galaxy Gateway on F1000Research

<http://sched.co/B9id>

Holly Murray I

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GalaxyCat - The online catalog of Galaxy tools across instances

<http://sched.co/BCAV>

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Analyzing Relationships among Clinical Factors of Cancer Patients by Regression Analysis

<http://sched.co/B5yY>

Sugandima Vidanagamachchi I, Tamara Waidyarathna I*

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Session 5, Friday, 30 June, morning

Personalized Analysis of Cancer Data: From Genes to Pathways (and Back)

<http://sched.co/B59d>

Eytan Domany I

I. Weizmann Institute of Science

Comparing hundreds of RNA-seq libraries using Galaxy and SeqResults

<http://sched.co/B59n>

Brad Langhorst I

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Approaches for small RNA-seq analysis in Galaxy

<http://sched.co/B5GD>

Mallory Freeberg 1, James Taylor 1

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Session 6, Friday, 30 June, late morning

COMBAT TB: an integrated environment for Tuberculosis data analysis and surveillance

<http://sched.co/B5GG>

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The RNA Workbench - reproducible, transparent, and accessible RNA research

<http://sched.co/B5Ld>

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6. Centre for Biological Signaling Studies [Freiburg] (BIOSS), Schänzlestr. 1879104 Freiburg - Germany

Interaction Hub: a comprehensive Galaxy-based chromatin folding database, browser, and analysis platform

<http://sched.co/B5Le>

Michael Sauria 1, James Taylor 1

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Mechanizing our biologists with Galaxy and IRIDA platforms

<http://sched.co/B5Lf>

Philip Mabon 1

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Session 7, Friday, 30 June, early afternoon

ELIXIR supports Galaxy users and developers

<http://sched.co/B5Lh>

Frederik Coppens 1, 2

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2. VIB

Advancing metaproteomics research via community-based informatics development and dissemination

<http://sched.co/B5Li>

Pratik Jagtap 1*, Björn Grüning, James Johnson, Alessandro Tanca, Bart Mesuere, Judson Herve, Carolin Kolmeder, Jeremy Fischer, Thomas Doak, Thilo Muth, Dave Clements 2, Praveen Kumar, Subina Mehta, Thomas Mcgoan, Clemens Blank, Bernhard Renard, Josh Elias, Joel Rudney, Timothy Griffin

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Making Galaxy User Interface Pluggable with Webhooks

<http://sched.co/B5Lk>

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A reproducible data analysis environment for next-generation sequencing on public cloud computer

<http://sched.co/B5Lo>

Manabu Ishii 1, Matsushima Akihiro 1, Mika Yoshimura 1, Hiroki Danno 1, Itoshi Nikaido 1

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Developing analytical workflows for plant genomics through the integration of Galaxy and Tripal

<http://sched.co/B5x9>

Sean Buehler 1, Nic Herndon 1, Emily Grau 1, Ming Chen 2, Abdullah Almsaeed 2, Connor Wytko 3, Brian Soto 3, Sook Jung 3, Shawna Spoor 3, Kuangching Wang 4, Chun-Huai Cheng 3, Nick Watts 4, Lacey Sanderson 5, Jill Wegrzyn 6, Doreen Main 3, Alex Feltus 4, Margaret Staton 7, Stephen Ficklin 3, Nathan Henry 7

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3. Washington State University
4. Clemson University
5. University of Saskatchewan
6. University of Connecticut
7. University of Tennessee

Session 8, Friday, 30 June, late afternoon

Lightning Talks

Using visual programming in Cervical cancer data of The Cancer Genome Atlas

<http://sched.co/B5yV>

Thais Hosokawa 1, José Fregnani 1, Rui Reis 1, Adriane Evangelista 1

1. [Barretos Cancer Hospital \(BCH\)](#), Barretos, São Paulo, Brazil Galaxy at scale: Analyzing thousands of single cell transcriptomes

Galaxy at scale: Analyzing thousands of single cell transcriptomes

<http://sched.co/BH73>

Mo Heydarian I, Enis Afgan I, James Taylor I*

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ToolDog - generating tool descriptors from the ELIXIR tool registry

<http://sched.co/B5y9>

Kenzo-Hugo Hillion I*, Ivan Kuzmin 2, Hedi Peterson 2, Jon Ison 3, Hervé Ménager I*

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Pushing the limits of job flexibility on HPC

<http://sched.co/B5z0>

Carrie Ganote I

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Pulling the Galaxy's Strings

<http://sched.co/B5z4>

Jeffrey Miller I*, Brenna Miller I

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Using Galaxy as a platform for continuous software development

<http://sched.co/B5z9>

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Automated Generation of Complex Toolkits for Galaxy

<http://sched.co/B5y5>

Daniel Blankenberg I

I. Penn State / Galaxy Team

Hack the Galaxy: Data Report

<http://sched.co/BFR9>

Hack the Galaxy: Data Organizers

Hack the Galaxy: Dev Report

<http://sched.co/BFRA>

Hack the Galaxy: Dev Organizers

JBrowse and Circos Tool Updates

<http://sched.co/BH74>

Eric Rasche I, Saskia Hiltmann 2,

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Parsec: Intergalactic DevOps and Analysis Automation

<http://sched.co/BH78>

Eric Rasche I

I. Center for Phage Technology, Texas A&M University (CPT)

Posters

Odd numbered posters will be presented Thursday at 15:40, and even-numbered posters on Friday at 15:20.

Poster titles and authors are listed here. The full abstracts of posters can be found online at <https://gcc2017.sched.com/overview/type/Posters>.

P01: Galaxy-docker-ansible

<http://sched.co/B8RO>

Ruben Vorderman I

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P02: Pulling Galaxy's Strings

<http://sched.co/B8WC>

Jeffrey Miller I

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P03: Automated customized deployment Galaxy portal instance in IFB Cloud Computing

<http://sched.co/B8RR>

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P04: Integration of openBIS - improving metadata management in Galaxy

<http://sched.co/B8XV>

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P05: The EDAM ontology and its integration into Galaxy

<http://sched.co/B8RV>

Hervé Ménager I, Jon Ison 2, Matúš Kalaš 3, Veit Schwaemmle 4, Edam Contributors

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3. Computational Biology Unit (CBU), University of Bergen
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P06: A Public Galaxy platform @Pasteur used as an execution engine for web services

<http://sched.co/B8Xm>

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P07: myFAIR Analysis: Personal FAIR Data Management and Analysis

<http://sched.co/B8Rc>

Saskia Hiltemann 1, Rick Jansen 1, David Van Zessen 1, John Hays 2, Andrew Stubbs 1*

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P08: GEGA: An application for secure access and analysis of EGA data with Galaxy

<http://sched.co/B9ip>

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P09: Wrapping tools: on the shoulders of the GCC community

<http://sched.co/B8TT>

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P10: ToolDog - generating tool descriptors from the ELIXIR tool registry

<http://sched.co/B8Xp>

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P11: Utility scripts for data manipulation in Galaxy

<http://sched.co/B8Tc>

Simon Gladman 1*, Madison Flannery 1

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P12: Integration of Alvis within the OpenMinTeD platform as Galaxy utilities

<http://sched.co/B8Xs>

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P13: Prioritizing SNPs using the Neo4j Galaxy Interactive Environment

<http://sched.co/B8Ti>

Lose Thoba I, Ziphozakhe Mashologu I*, Peter Van Heusden I*, Alan Christoffels I*

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P14: Du Novo: a simple, reference-free tool for turning duplex sequencing data into extremely accurate reads

<http://sched.co/B8Y4>

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P15: The MiModD suite of tools for genetic variant mapping and identification

<http://sched.co/B8Tl>

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P16: Galaxy-P rides the Jetstream: Cloud-based multi-omic informatics

<http://sched.co/B8YY>

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P17: ProteoRE, a Galaxy-based infrastructure for interpreting and exploring mass spectrometry-based proteomics data

<http://sched.co/B8U9>

Lien Nguyen I, Maud Lacombe I, Sandra Dérozier 2, Lisa Perus I, Olivier Rué 2, Florence Combes I, Christophe Caron 2, Virginie Brun I, Valentin Loux 2, Yves Vandenbrouck I

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P18: Implementation of an interface for exploring molecular diversity by proteogenomics

<http://sched.co/B8Yy>

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P19: A reproducible data analysis environment for next-generation sequencing on public cloud computer

<http://sched.co/B8UA>

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P20: Development and implementation of a transversal NGS & bioinformatics platform at the Belgian Institute of Public Health: Deployment of a Galaxy instance for routine use in a public health setting

<http://sched.co/B8Z6>

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P21: Deployment of genome databases for insects using Galaxy Genome Annotation

<http://sched.co/B8VM>

Anthony Breteau 1*

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P22: Enhancing the Multi-omics Visualization Platform (MVP) Plug-in for Galaxy-based Applications

<http://sched.co/B5xC>

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P23: Detecting somatic de-novo Transposable Element insertions with Galaxy

<http://sched.co/B8VS>

Marius Van Den Beek 1, Nick Riddiford, Katarzyna Siudeja, Allison Bardin

1. Institut Curie, 26 rue d'Ulm 75248 PARIS CEDEX 05 - France

P24: Annotating microRNA isoforms (isomiRs) of non-model organisms to analyze expression levels using a Galaxy workflow

<http://sched.co/B8Z7>

Jochen Bick 1, Susanne Ulbrich 1, Stefan Bauersachs 1

1. ETH Zurich Animal Physiology

P25: Galaxy and the full spectrum of needs in a small-scale cancer study

<http://sched.co/B8VU>

Christin Lund-Andersen 1, Ståle Nygård 2, 3, Stein Larsen 4, Eivind Hovig 1, 3, Kjersti Flatmark 1, 3, 4

1. Department of Tumor Biology, Institute for Cancer Research, The Norwegian Radium Hospital, Oslo University Hospital, Oslo, Norway
2. Bioinformatics Core Facility, Institute for Medical Informatics, Oslo University Hospital.
3. University of Oslo, Oslo, Norway
4. Department of Gastroenterological Surgery, The Norwegian Radium Hospital, Oslo University Hospital, Oslo, Norway

P26: The Burden of Occupational Cancer in Korea

<http://sched.co/B8Z8>

Mia Son 1

1. Kangwon National University (KNU)

P27: ASaiM: a Galaxy-based framework to analyze raw sequencing data from microbiota

<http://sched.co/B8Vj>

Bérénice Batut 1*, Clémence Defois 2, Kévin Gravouil 2, 3, 4, Jean-François Brugère 2, Eric Peyretailade 2, Pierre Peyret 2

1. Bioinformatics Group, Department of Computer Science, University of Freiburg, Germany
2. Microbiologie Environnement Digestif Santé - Clermont Auvergne (MEDIS), INRA Clermont-Ferrand-Theix : UMR0454, Université Clermont Auvergne : UMR0454, INRA, Centre de Recherches de Clermont-Ferrand - Theix / 63122 Saint-Genès Champanelle - France
3. Microorganismes : Génome et Environnement - Clermont Auvergne (LMGE), Université Clermont Auvergne : UMR6023, Centre National de la Recherche Scientifique : UMR6023, Campus des Cézeaux / 24, avenue des Landais BP 80026 / 63170 Aubière - France
4. Laboratoire d'Informatique, de Modélisation et d'Optimisation des Systèmes - Clermont Auvergne (LIMOS), SIGMA Clermont, Université Clermont Auvergne : UMR6158, Centre National de la Recherche Scientifique : UMR6158, ISIMA / Campus des Cézeaux BP 10025 / 63173 AUBIERE cedex - France

*: Corresponding author

P28: ChemFlow, chemometrics for everybody

<http://sched.co/B8Z9>

Virginie Rossard 1, Eric Latrille 1, Fabien Gogé 2, Jean-Michel Roger 3, Martin Ecarnot 1, Jean-Claude Boulet 1

1. INRA
2. IRSTEA

P29: Developing a bioinformatics pipeline for optimization of sperm epigenome analysis in mice and men to be used for the identification of epigenetic signatures in sperm associated with environmental perturbation

<http://sched.co/B8Vl>

Deepak Tanwar 1, Romain Lambrot 1, Keith Siklenka 2, Mahmoud Aarabi 3, Donovan Chan 3, Clifford Librach 4, Sergey Moskvovtsev 4, Jacquetta Trasler 3, Sarah Kimmins 1, 2

1. Department of Animal Science, McGill University, Ste Anne-de-Bellevue, QC - Canada
2. Department of Pharmacology and Therapeutics, McGill University, Montreal, QC - Canada
3. Research Institute of the McGill University Health Centre at the Montreal Children's Hospital, Montreal, QC - Canada
4. Department of Obstetrics and Gynaecology, University of Toronto, Toronto, ON - Canada

P30: Pushing the limits of job flexibility on HPC

<http://sched.co/B9jp>

Carrie Ganote I, Sheri Sanders, Phil Blood, Thomas Doak, Bhavya Nalagampalli Papudeshi, Asma Bankapur *, Brian Haas, Tim Tickle, Cicada Brokaw

I. Indiana University (IU), 107 S. Indiana Avenue Bloomington, IN 47405-7000 - United States

* : Corresponding author

P31: In silico toxicity assessment in cultured rat intestinal cells deduced from cellular impedance measurements and transcriptomics data

<http://sched.co/BIAZ>

Pooja Gupta I

I. Institute for Mathematics, Freie Universität Berlin (FU Berlin)

P32: An odyssey into Galaxy: Quality control and quality assurance of NGS-based laboratory diagnostic tests offered by Newborn Screening Ontario

<http://sched.co/BKkj>

Lemuel J. Racacho I,*

I. [Newborn Screening Ontario \(NSO\)](#)

* : Corresponding author

Accepted Demos

Odd numbered demos will be presented Thursday at 15:40, and even-numbered demos on Friday at 15:20. Demos with corresponding posters will be presented concurrently with and adjacent to the poster. Full demo abstracts are online.

D01: Integration of Linked Data into Galaxy using AskOmics

<http://sched.co/B8ZC>

Xavier Garnier 1, 2, Olivier Dameron 2, Olivier Filangi 1, 3, Fabrice Legeai 1, 4, Anthony Bretaudeau 1, 3

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2. DYLISS (INRIA - IRISA), INRIA, Université de Rennes 1, CNRS : UMR6074, Campus de Beaulieu 35042 Rennes cedex - France
3. Plateforme bio-informatique Genouest (Genouest), IRISA/INRIA Plateforme GenOuest Campus de Beaulieu 35042 Rennes cedex, France - France
4. GenScale, IRISA/INRIA équipe Genscale Campus de Beaulieu 35042 Rennes cedex, France - France

D02: Improve Genome Annotation Accuracy through Manual Annotation in Apollo

<http://sched.co/B8aC>

Nathan Dunn 1*, Monica Munoz-Torres 1, Deepak Unni 2, Eric Rasche 3, Eric Yao 4, Ian Holmes 4, Christine Elisk 2, Suzanna Lewis 1

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 4. Department of Bioengineering, University of California, Berkeley (UC Berkeley), 119 California Hall Berkeley, CA 94720-1500 - United States
- * : Corresponding author

D03: De novo transcriptome annotation visualization and filtering

<http://sched.co/B8ZY>

Eduardo De Paiva Alves 1

1. Centre for Genome-Enabled Biology and Medicine, University of Aberdeen (CGEBM), 23 St Machar Dr, Aberdeen, UK AB24 3UU - United Kingdom

D04: KnetMiner: an application suite to integrate, search, and interactively explore large knowledge networks

<http://sched.co/BJ5F>

Ajit Singh 1, Monika Mistry 1, Marco Brandizi 1, Chris Rawlings 1, Keywan Hassani-Pak 1

1. Rothamsted Research, Harpenden, AL5 2JQ - United Kingdom

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Station Biologique Roscoff

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Hack the Galaxy: User

Frederic Coppens
VIB

Mallory Freeberg
Johns Hopkins University

Jennifer Hillman-Jackson
Penn State University

Yvan Le Bras
MNHM

Stephanie Le Gras
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Hack the Galaxy: Dev

Anthony Bretaudeau
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Björn Grüning
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Marius van den Beek
Institut de Biologie Paris Seine

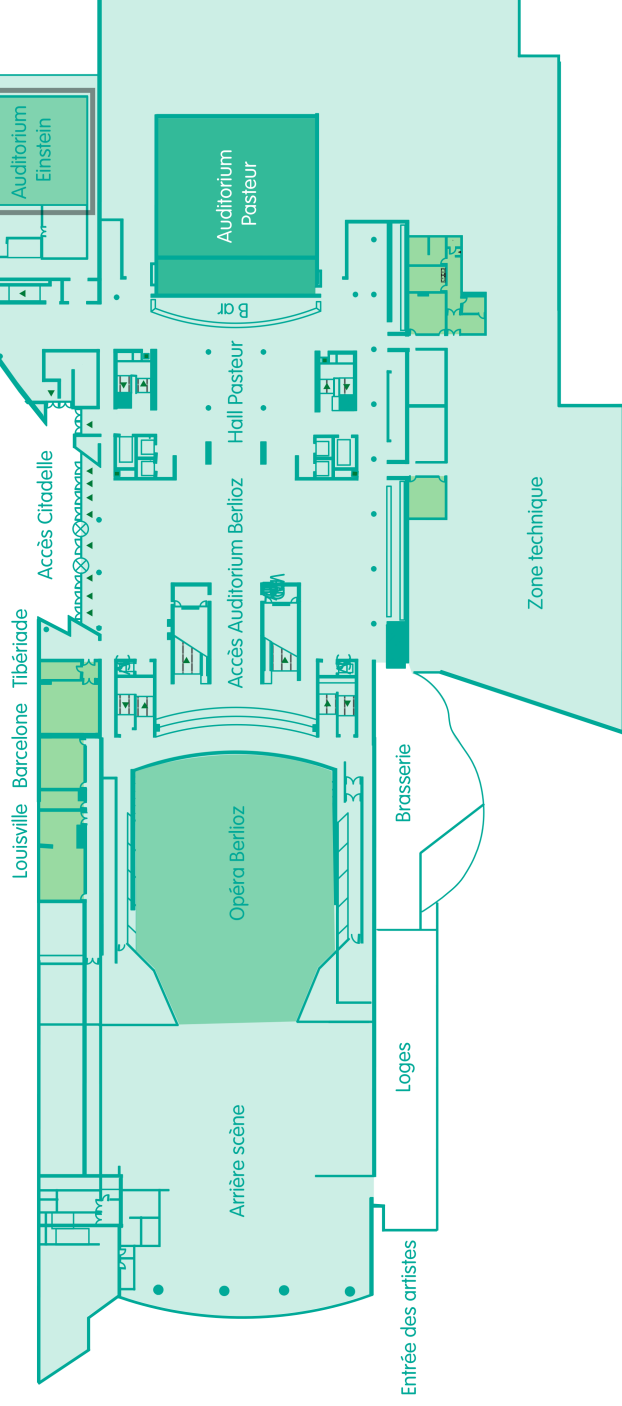
Julien Seiler
IGBMC



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Einstein Auditorium Meeting Venue

Level 0

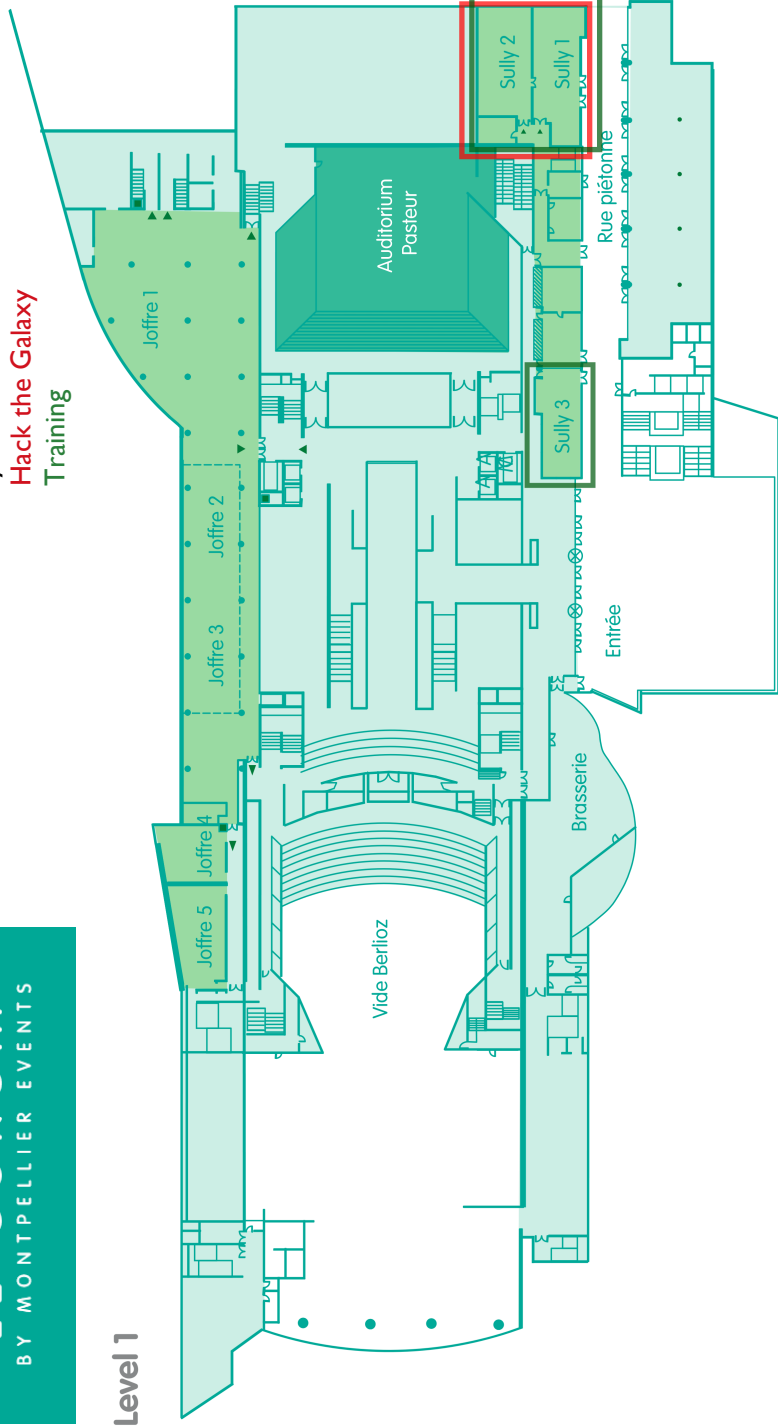




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Sully 1, 2, and 3
Hack the Galaxy
Training

Level 1

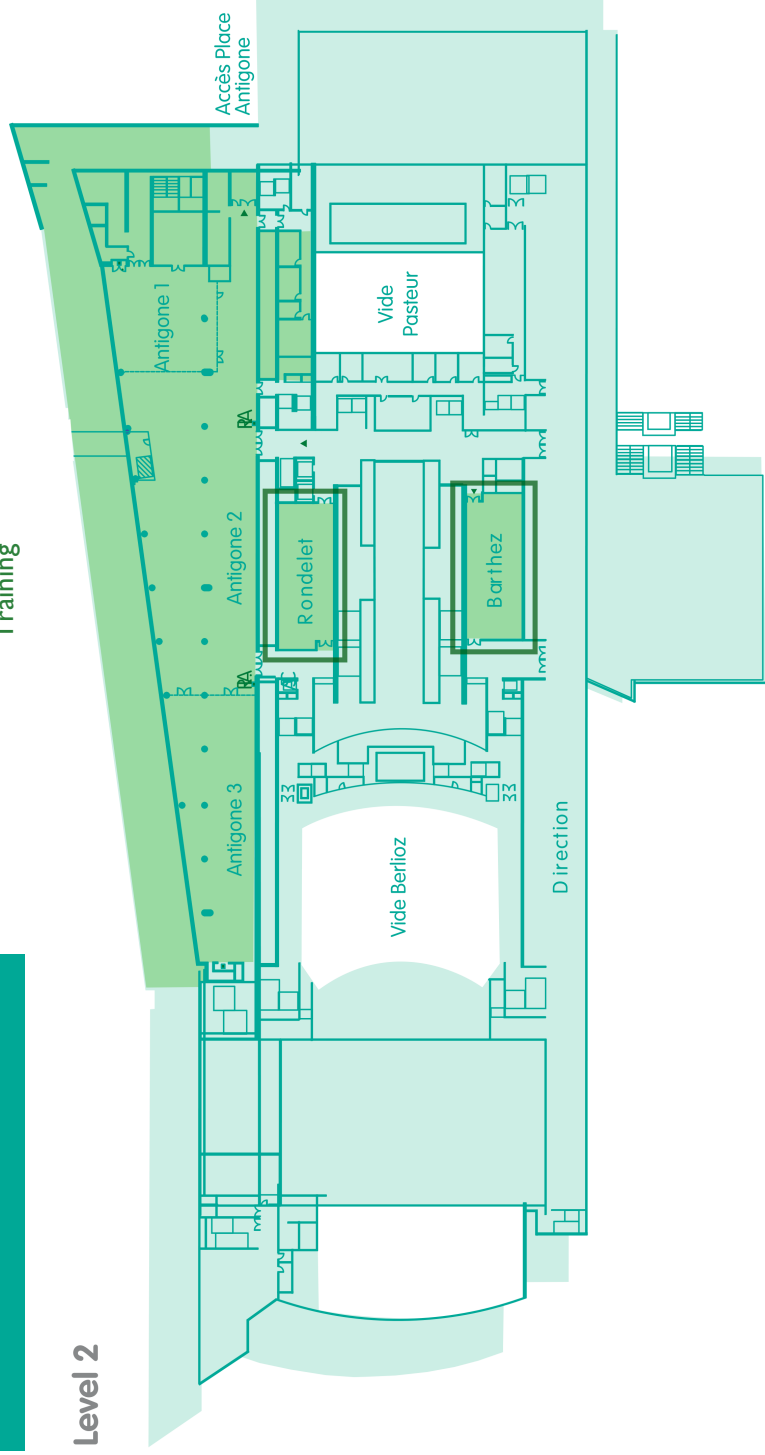




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Barthez & Rondelet Training

Level 2





Portland 2018

GCC2018 & BOSC 2018
are joining up

June 25-30, Reed College, Portland, Oregon
gccbosc2018.sched.com

See you next year!