

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

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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/



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.



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.



Galaxy: advancing the digital 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
Full day, single
track, using
Galaxy

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-afeather, lightning talks, exhibits, keynotes, and networking.

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 Furopean countries



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 I & Sully 2 (Level I)
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 I & Sully 2 (Level I)
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
	Committee macking at vehicle 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

Sully 3 (Level 1)		Introduction to Galaxy Admin: Setting up Galaxy as a Service Jochen Bich, Trond Thorbjørnsen, Nikolay Aleksandrov Vzov		Galaxy for Proteomics Clemens Blank, Timothy Griffin, Pratik Jagtap, James Johnson		SNP Analysis & GWAS Using SNiPlay Alexis Dereeper, Yann Hueber
v =		Gala Gala Setting u Jochen Thorbjø Aleks:		Gs Pro Clen Timothy Jagtap, J		SNP Ans Usin Alexis D
Sully 2 (Level 1)	til 18:00)	Small Genome de novo Assembly Using Galaxy Simon Gladman		How to Analyze Metagenomics & Amplicon in Galaxy Bérénice Batut, Saskia Hiltemann		Visualization Development in Galaxy Jeremy Goecks, Aysam Guerler, Saskia Hiltemann
Sully I (Level I)	Conference Desk Open (until 18:00)	RNA-Seq Analysis in Galaxy Mo Heydarian, Mallory Freeberg	Lunch on your own	Visualisation of BIG DATA in Galaxy Aysam Guerler, Jeremy Goecks	Break	ChIPseq Analysis Using Deep Tools & Macs Devon Ryan
Rondolet (Level 2)	Cor	Writing & Publishing Galaxy Tools M van den Beek, D Blankenberg, D Bouvier, M Čech, G Le Corguillé, N Soranzo, N Stoler		Conda & Containers for Tool Dependencies – a Developer's Perspective Abdulrahman Azab, Marius van den Beek, John Chilton, Nicola Soranzo		Galaxy for Training & Education Bérénice Batut, Björn Grüning
Barthez (Level 2)		Galaxy Architecture John Chilton, Nate Coraor		Advanced Customisation of a Galaxy Instance Björn Grüning, Erick Rasche, Martin Čech		Advanced Accelerated Galaxy Admin Enis Afgan, Dan Blankenberg, Martin Čech, John Chilton, Nate Coraor, Simon Gladman
Time	08:00	00:60		12:30	15:00	15:30



computationnelle

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.

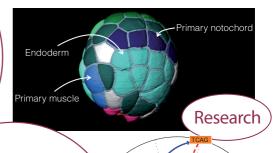
One industrial member and 8 national trustees

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.



- genomics (eg. vertebrate, rice, cancer)
- transcriptomics
- virus and pathogens (HIV, malaria, etc.)
- embryonic development and stem cells
- population genetics
- Next Generation Sequecing 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
 - · bia data





























Conference: Thursday 29 June

Einstein Auditorium (Level 0)
Conference Desk Open (until 19:00)
Opening and Welcome Olivier Inizan, INRA; Marilyne Summo, CIRAD
Session I: Galaxy Framework Moderator: Jeremy Goecks, OHSU
Keynote: The Galaxy Project: from the Planck Epoch to Montpellier Anton Nekrutenko, Penn State University; James Taylor, Johns Hopkins University
Bioconda and BioContainers - Enabling Universal Reproducibility in Galaxy John Chilton, Penn State University
Building an open, collaborative, online infrastructure for bioinformatics training Bérénice Batut, University of Freiburg
Break
Session 2: Galaxy Framework (continued) Moderator: Dave Clements, Johns Hopkins University
An Educational Framework for Galaxy Administration Nate Coraor, Penn State University; Simon Gladman, Melbourne Bioinformatics / University of Melbourne
Integrative analysis of hundreds of datasets in Galaxy Geir Kjetil Sandve, University of Oslo
Galaxy Genome Annotation Project: Galaxy and GMOD for Annotation, Teaching, and Genomic Databases Eric Rasche, Texas A&M University
Apollo in Galaxy: Increasing Opportunities for Collaborative Genome Annotation Nathan Dunn, Lawrence Berkeley National Lab (LBNL)
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 IUCBjörn 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

Sponsor, Poster and Demo Session

15:40



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

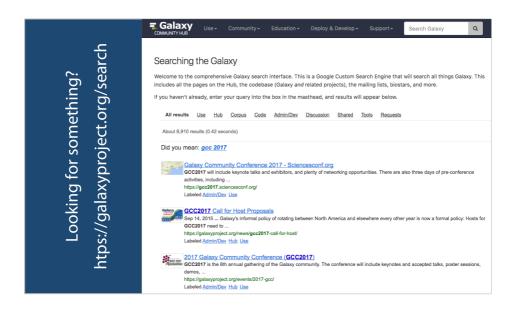


Conference: Friday 30 June

Time		Einstein Auditorium (Level 0)
08:00		Conference Desk Open (until 18:00)
09:00	Mode	Session 5: Galaxy for Life Science and Medicine erator: 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



Conference: Friday 30 June (continued)

		, ,
Time		Einstein Auditorium (Level 0)
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, Thamara 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@groupes.france-bioinformatique.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 I 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)



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 highthroughput biology. GCC2017 includes Birds of a Feather (BoF) meetups that are informal gatherings based on participants' shared interests. encouraged are throughout GCC2017, particularly during the flocking sessions each day. 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.



Just register with your work email address and you'll have access to the entire site!

REGISTER HERE
bit.ly/gcc17gw

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!

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 GalxyAdmins 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 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/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

Organiziers: 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 makke the journey from, and return to Le Corum. Don't miss it.

Capture the Flag: Hack the Universe

Saskia Hiltemann 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.



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 I, James Taylor 2

- I. Penn State University
- 2. Johns Hopkins University

Bioconda and BioContainers - Enabling Universal Reproducibility in Galaxy

http://sched.co/B4zG

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

- Department of Biochemistry and Molecular Biology, Penn State University, University Park, PA 16801 - United States
- 2. Institut Curie, Institut Curie, 26 rue dÚlm 75248 PARIS CEDEX 05 France
- Uni-Freiburg (ALU), Bioinformatics Group Department of Computer Science, Albert-Ludwigs-University Freiburg Georges-Köhler-Allee 106 79110 Freiburg Germany - Germany
 *: Corresponding author

Building an open, collaborative, online infrastructure for bioinformatics training http://sched.co/B55d

Bérénice Batut I*, Galaxy Training Network 2, Dave Clements 3*, Björn Grüning 4* http://sched.co/B55d

- 1. University of Freiburg, Bioinformatics Group, Department of Computer Science
- 2. Galaxy Training Network
- 3. Johns Hopkins University
- 4. University of Freiburg, Bioinformatics Group, Department of Computer Science *: Corresponding author

Session 2, Thursday, 29 June, late morning

An Educational Framework for Galaxy Administration

http://sched.co/B56f

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

- 1. Department of Biochemistry and Molecular Biology, Penn State University, University Park, PA
- 2. University of Melbourne
- 3. Department of Computer Science, Albert-Ludwigs-University, Freiburg
- 4. Department of Biology, Johns Hopkins University, Baltimore, MD
 - *: Corresponding author

Integrative analysis of hundreds of datasets in Galaxy

http://sched.co/B56o

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

 Department of Informatics [Oslo], Informatikkbygget Gaustadalléen 23 N-0371 Oslo Norway -Norway

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

http://sched.co/B59G

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

- 1. Center for Phage Technology, Texas A&M University (CPT)
- Department of Computer Science [Freiburg], Georges-Kohler-Allee 79, 79108 Freiburg, Germany -Germany
- 3. Lawrence Berkeley National Laboratory (LBNL)
- 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 I*, Monica Munoz-Torres I, Deepak Unni 2, Eric Rasche 3, Eric Yao 4, Ian Holmes 4, Christine Elsik 2, Suzanna Lewis I

- Lawrence Berkeley National Lab (LBNL), Lawrence Berkeley National Lab 717 Potter Street Berkeley, CA 94710 - United States
- Division of Plant Sciences, University of Missouri, 52 Agriculture Lab, Columbia, MO 65211 United States
- Center for Phage Technology, Texas A&M University (CPT), 2128 TAMU College Station, TX 77843-2128 - United States
- Department of Bioengineering, University of California, Berkeley (UC Berkeley), 119 California Hall Berkeley, CA 94720-1500 - United States
 - *: Corresponding author

Galaxy at the IFB: From Compute to Training

http://sched.co/B8XT

Victoria Dominguez del Angel I, Cristophe Caron 2

- I. Institut Français de Bioinformatique
- 2. INRA

Session 3, Thursday, 29 June, early afternoon

Galaxy Community Update

http://sched.co/B57W

Jeremy Goecks I, Dan Blankenberg 2

- I. Oregon Health & Science University
- 2. Penn State University

The Year of IUC

http://sched.co/B57a

Björn Grüning I*, Bérénice Batut I, 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 II

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- 2. Institut Curie, 26 rue dÚlm 75248 PARIS CEDEX 05 France
- 3. Penn State / Galaxy Team
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- 5. James Hutton Institute
- 6. ErasumusMC
- 7. University of Minnesota

- 8. Penn State University, University Park, PA
- 9. Princeton University
- Center for Phage Technology, Texas A&M University (CPT), 2128 TAMU College Station, TX 77843-2128 - United States
- 11. Earlham Institute
 - *: Corresponding author

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

http://sched.co/B58O

Gildas Le Corguillé I, 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

- ABiMS, CNRS: FR2424, Université Pierre et Marie Curie [UPMC] Paris VI, Station Biologique de Roscoff - France
- 2. PFEM, Institut national de la recherche agronomique (INRA) : UMR1019, Saint Genes Champanelle France
- 3. Laboratory for Data Analysis and Systems Intelligence (CEA-LIST/LADIS), CEA-LIST, Gif-sur-Yvette France
- Laboratoire d'Etude des Résidus et Contaminants dans les Aliments Oniris (LABERCA), LUNAM Université, Nantes - France
- 5. Toxalim, Institut national de la recherche agronomique (INRA), Université Paul Sabatier Toulouse 3, Toulouse France
- 6. Ingenum, 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 I, Marilyne Summo 2, Gaëtan Droc 2, Mathieu Rouard I, Bertrand Pitollat I, Paul Pastor I, Delphine Larivière 2, Frédéric De Lamotte 3, Stéphanie Bocs I, Manuel Ruiz I, Felix Homa I, Guillaume Martin I, Gautier SARAH 4, Sébastien RAVEL 5, Vincent Maillol I, Jonathan Lorenzo 6, Alexis Dereeper I

- I. 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 Méditerranéeennes 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 I, 2, 3*, Vincent Lefort 4, Olivia Doppelt-Azeroual 2, Fabien Mareuil 2, Sarah Cohen-Boulakia 3*, Olivier Gascuel 2, 4

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- Laboratoire de Recherche en Informatique (LRI), Université Paris-Sud Paris II, Centre National de la Recherche Scientifique: UMR8623, LRI - Bâtiments 650-660 Université Paris-Sud 91405 Orsay Cedex - France
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 477, 161 rue Ada, 34095 Montpellier Cedex 5 France
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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

1. 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, *

- I. MNHN CESCO & Staiton de Biologie Marine de Concarneau, Muséum National d'Histoire Naturelle (MNHN)
 - *: Corresponding author

The Galaxy Gateway on F1000Research

http://sched.co/B9id

Holly Murray I

I. Science Navigation Group, Middlesex House, 34-42 Cleveland St - United Kingdom

GalaxyCat - The online catalog of Galaxy tools across instances

http://sched.co/BCAV

Julien Seiler I*, Stéphanie Le Gras I

- I. Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC), CNRS:
 UMR7104, Inserm: U964, université de StrasbourgParc D'Innovation I Rue Laurent Fries
 - BP 10142 67404 ILLKIRCH CEDEX France
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Analyzing Relationships among Clinical Factors of Cancer Patients by Regression Analysis

http://sched.co/B5yY

Sugandima Vidanagamachchi I, Thamara Waidyarathna I*

- 1. Department of Computer Science (University of Ruhuna)
 - *: Corresponding author

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

I. New England Biolabs (NEB)

Approaches for small RNA-seq analysis in Galaxy

http://sched.co/B5GD

Mallory Freeberg I, James Taylor I

I. Biology Department, Johns Hopkins University (JHU), 3400 N Charles St - United States

Session 6, Friday, 30 June, late morning

COMBAT TB: an integrated environment for Tuberculosis data analysis and surveillance http://sched.co/B5GG

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

- I. South African National Bioinformatics Institute (SANBI)
 - *: Corresponding author

The RNA Workbench - reproducible, transparent, and accessible RNA research http://sched.co/B5Ld

Florian Eggenhofer I, Jörg Fallmann 2, Björn Grüning I, 3, Bérénice Batut I, Peter Stadler 2, 4, 5, Rolf Backofen I, 3, 6

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- 4. Institute for Theoretical Chemistry (TBI), Institute for Theoretical Chemistry, University of Vienna, Währingerstrasse 17, 1090 Vienna, Austria Austria
- 5. Max Planck Institute for Mathematics in the Sciences (MPI), Max Planck Institute for Mathematics in the Sciences, Inselstraße 22, 04103 Leipzig, Germany Germany
- 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 I, James Taylor I

 Department of Biology [Johns Hopkins University], 3400 N. Charles Street, Mudd 144 Baltimore, MD 21218 - United States

Mechanizing our biologists with Galaxy and IRIDA platforms

http://sched.co/B5Lf

Philip Mabon I

 Public Health Agency of Canada (PHAC), 1015 Arlington Street, Winnipeg, Manitoba R3E3R2 -Canada

Session 7, Friday, 30 June, early afternoon

ELIXIR supports Galaxy users and developers

http://sched.co/B5Lh

Frederik Coppens 1, 2

- I. ELIXIR-Belgium
- 2. VIB

Advancing metaproteomics research via community-based informatics development and dissemination

http://sched.co/B5Li

Pratik Jagtap I*, Björn Grüning, James Johnson, Alessandro Tanca, Bart Mesuere, Judson Hervey, 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

Evgeny Anatskiy I, Anup Kumar I, Joachim Wolff I, Clemens Blank I, Eric Rasche 2, Martin Cech 3, Björn Grüning I

- 1. Bioinformatics Group at Albert-Ludwigs-Universität, Freiburg
- 2. Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX
- 3. Department of Biochemistry and Molecular Biology, Penn State University, University Park, PA

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

http://sched.co/B5Lo

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

4. RIKEN ACCC Bioinformatics Research Unit, 2-1 Hirosawa, Wako, Saitama 351-0198 - Japan

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

http://sched.co/B5x9

Sean Buehler I, Nic Herndon I, Emily Grau I, 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 Sandserson 5, Jill Wegrzyn 6, Doreen Main 3, Alex Feltus 4, Margaret Staton 7, Stephen Ficklin 3, Nathan Henry 7

- I. University of Connecticut
- 2. University of Tennessee Institute of Agriculture
- 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 I, José Fregnani I, Rui Reis I, Adriane Evangelista I

 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/B5yu

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

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- 2. Center of Bioinformatics, Biostatistics and Integrative Biology
- Center for Biological Sequence Analysis, Department of Systems Biology, Technical University of Denmark
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Pushing the limits of job flexibility on HPC

http://sched.co/B5z0

Carrie Ganote I

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

Pulling the Galaxy's Strings

http://sched.co/B5z4

Jeffrey Miller I*, Brenna Miller I

- I. The University of Iowa
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Using Galaxy as a platform for continuous software development

http://sched.co/B5z9

Boris Simovski I, Geir Kjetil Sandve I*, Sveinung Gundersen I

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 - *: Corresponding author

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 Hiltemann 2.

- 1. Center for Phage Technology, Texas A&M University (CPT)
- 2. Bioinformatics Dept., Erasmus University Medical Center (Erasmus MC)

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

I. Leiden University Medical Center (LUMC)

P02: Pulling Galaxy's Strings

http://sched.co/B8WC

leffrey Miller I

1. The University of Iowa (UI), 230 S. Madison St. Iowa City, IA 52242 - United States

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

http://sched.co/B8RR

Sandrine Perrin I*, Björn Grüning 2, Bryan Brancotte I, Christophe Blanchet I*

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P04: Integration of openBIS - improving metadata management in Galaxy http://sched.co/B8XW

Aarif Mohamed Nazeer Batcha I*, Guokun Zhang I*, Ulrich Mansmann I

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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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- Protein Research Group, Department for Biochemistry and Molecular Biology, University of Southern Denmark

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 I, Rick Jansen I, David Van Zessen I, John Hays 2, Andrew Stubbs I*

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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

Valentin Marcon I, Nathalie Choisne 2, Veronique Jamilloux 2, Gwendoline Andres, Isabelle Luyten 2, Joelle Amselem 2, Mikael Loaec 2, Françoise Alfama-Depauw 2, Sarah Maman-Haddad 3, Melanie Petera 4, Luc Jouneau 5, Sandrine Laguerre 6, Olivier Inizan I

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- 4. Unité de Nutrition Humaine (UNH), Institut national de la recherche agronomique (INRA)
- Unité de recherche Virologie et Immunologie Moléculaires (VIM), Institut National de la Recherche Agronomique: UR0892, UR0892 INRA Centre de Recherche de Jouy-en-Josas F-78352 Jouy-en-Josas cedex - France
- l'Ingénierie des Systèmes Biologiques et des Procédés (LISBP), Institut National des Sciences Appliquées de Toulouse, 135 Avenue de Rangueil, 31400 Toulouse - France

P10: ToolDog - generating tool descriptors from the ELIXIR tool registry http://sched.co/B8Xp

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PII: Utility scripts for data manipulation in Galaxy

http://sched.co/B8Tc

Simon Gladman I*, Madison Flannery I

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P12: Integration of Alvis within the OpenMinTeD platform as Galaxy utilities http://sched.co/B8Xs

Jean-Baptiste Bohuon *, Mouhamadou Ba, Robert Bossy I, Claire Nédellec I

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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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PI5: The MiModD suite of tools for genetic variant mapping and identification http://sched.co/B8TI

Wolfgang Maier I*, Mark Seifert I, Katharina Moos, Gregory Minevich, Oliver Hobert 2, Ralf Baumeister I

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

http://sched.co/B8YY

Timothy Griffin I*, Matthew Chambers 2, James Johnson I, Mcgowan Thomas I, Thomas Doak 3, Jeremy Fischer 3, Praveen Kumar I, Pratik Jagtap I

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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

Yannick Cogne I, Christine Almunia I, Olivier Pible I, Duarte Gouveia 2, Arnaud Chaumot

- 2, Olivier Geffard 2, Jean Armengaud I*
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P19: A reproducible data analysis environment for next-generation sequencing on public cloud computer

http://sched.co/B8UA

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

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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

Julien Van Braekel I, Bert Bogaerts I, Raf Winand I, Quiang Fu I, Sigrid De Keersmaecker I, Nancy Roosens I, Kevin Vanneste I *

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P21: Deployment of genome databases for insects using Galaxy Genome Annotation http://sched.co/B8VM

Anthony Bretaudeau I*

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

http://sched.co/B5xC

Thomas McGowan I*, James Johnson I, Pratik Jagtap 2*

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P23: Detecting somatic de-novo Transposable Element insertions with Galaxy http://sched.co/B8VS

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

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

http://sched.co/B8Z7

Jochen Bick I, Susanne Ulbrich I, Stefan Bauersachs I

I. 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 I, Ståle Nygård 2, 3, Stein Larsen 4, Eivind Hovig I, 3, Kjersti Flatmark I. 3, 4

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- 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 I

I. Kangwon National University (KNU)

P27: ASaiM: a Galaxy-based framework to analyze raw sequencing data from microbiota http://sched.co/B8Vj

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

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P28: ChemFlow, chemometrics for everybody

http://sched.co/B8Z9

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

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- 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/B8VI

Deepak Tanwar I, Romain Lambrot I, Keith Siklenka 2, Mahmoud Aarabi 3, Donovan Chan

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- 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

1. 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

1. 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 I, 2, Olivier Dameron 2, Olivier Filangi I, 3, Fabrice Legeai I, 4, Anthony Bretaudeau I. 3

- 1. Institut de Génétique, Environnement et Protection des Plantes (IGEPP), Institut National de la Recherche Agronomique : UMR1349, Universite de Rennes 1 : UMR1349, Agrocampus Ouest : UMR1349, Domaine de la Motte au Vicomte BP 3532735653 Le Rheu France
- DYLISS (INRIA IRISA), INRIA, Universite de Rennes I, 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 I*, Monica Munoz-Torres I, Deepak Unni 2, Eric Rasche 3, Eric Yao 4, Ian Holmes 4. Christine Elsik 2. Suzanna Lewis I

- Lawrence Berkeley National Lab (LBNL), Lawrence Berkeley National Lab 717 Potter Street Berkeley, CA 94710 - United States
- Division of Plant Sciences, University of Missouri, 52 Agriculture Lab, Columbia, MO 65211 Columbia, MO 65211 - United States
- Center for Phage Technology, Texas A&M University (CPT), 2128 TAMU College Station, TX USA 77843-2128 - United States
- 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 I

 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/BI5F

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

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

Organising Committee

Christophe Caron

Dave Clements Johns Hopkins University

Gildas Le Corguillé Station Biologique Roscoff

Jean-François Dufayard

CIRAD

Olivier Inizan

INRA

Patricia Laplagne

IFB

Marilyne Summo

CIRAD

Nicole Vasilevsky

OHSU

Hack the Galaxy: User

Frederic Coppens VIB

Mallory Freeberg Johns Hopkins Universty Jennifer Hillman-Jackson

Penn State University
Yvan Le Bras

MNHM Stophania La Gr

Stephanie Le Gras

Christian Schudoma Earlham Institute

Scientific Committee

Christophe Antioniewski, Chair UPMC

Sarah Cohen-Boulakia

Alexis Dereeper

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Anton Nekrutenko
Penn State University

Björn Grüning

University of Freiburg

Jeremy Goecks

OHSU

Jean-François Gibrat

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Vincent Lefort

Nicola Soranzo
Earlham Institute
James Taylor

Johns Hopkins University

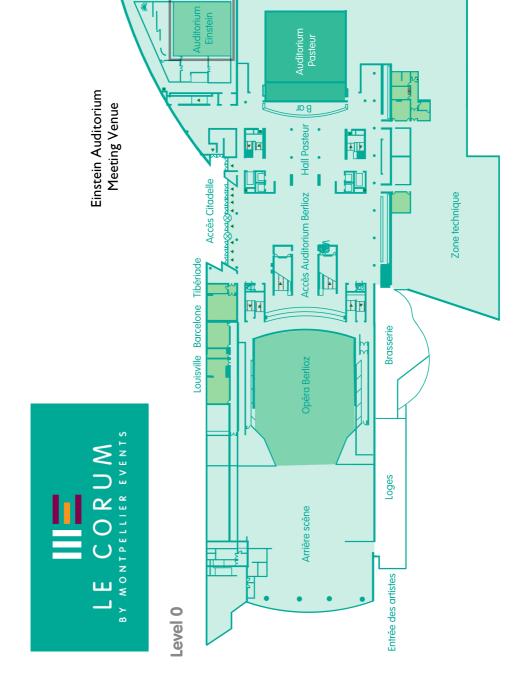
Hack the Galaxy: Dev

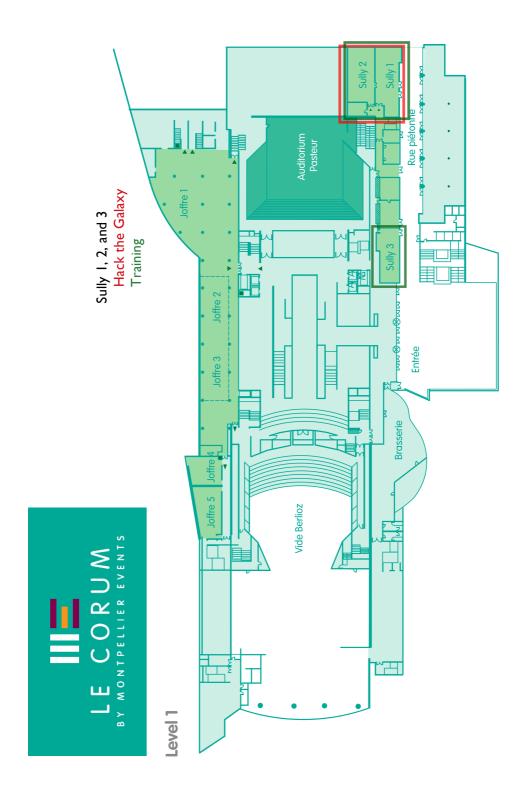
Anthony Bretaudeau INRA

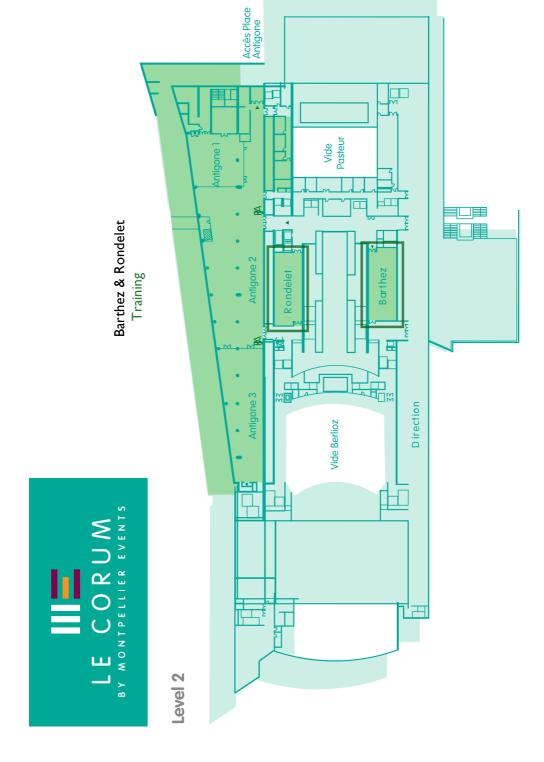
Björn Grüning University of Freiburg

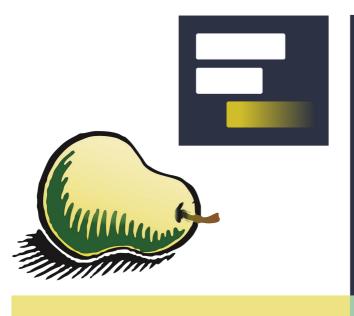
Marius van den Beek Institut de Biologie Paris Seine

Julien Seiler IGBMC











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GCC2018 & BOSC 2018

are joining up

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

See you next year!