Monday 1st July

9:00	Conference Desk Open	
10:00	Using Galaxy	Germany
	Introduction to Using Galaxy (Galaxy 101). M. Heydarian, J. Hillman-Jackson	
	Admin & Dev	Greece
	Introduction to Galaxy Administration I. M. Čech, E. Afgan, S. Gladman, M. van den Beek, J. Chilton, N. Coraor, H. Rasche	
12:00	Catered lunch	
13:00	Using Galaxy	Germany
	Beyond the Intro: Further Adventures in Using Galaxy. M. Heydarian, J. Hillman-Jackson	
	Admin & Dev	Greece
	Introduction to Galaxy Administration II. M. Čech, E. Afgan, S. Gladman, M. van den Beek, J. Chilton, N. Coraor, H. Rasche	
15:00	Break	
15:30	Using Galaxy	Germany
	Analyzing Large / Complex Experimental Designs with Galaxy. D. Blankenberg, M. van den Beek, M. Heydarian, J. Hillman-Jackson	
	Admin & Dev	Greece
	Introduction to Galaxy Administration III. M. Cech, E. Afgan, S. Gladman, J. Chilton, N. Coraor, H. Rasche	
17:45	Dinner on your own & Birds-of-a-Feather	

Outside the Genome & Community
Epigenetics
Variation, Metagenomics & Assembly
Transcriptomics
Proteomics & Metabolomics
General
Admin & Dev

Galaxy Community Conference
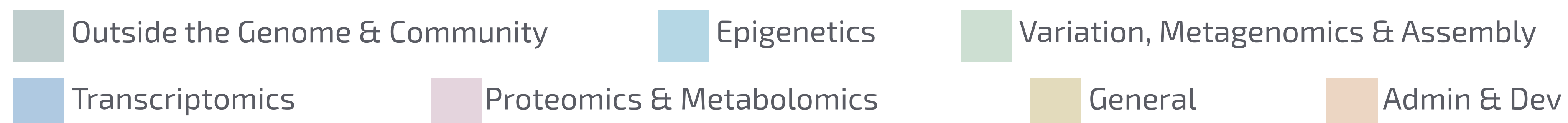
Tuesday 2nd July

Time	
8:00	Conference Desk Open
9:00	Talks - 1 plenary track

Plenary. Moderator: B. Grüning — Greece

- **9:00** **Opening and Welcome.** A. Erxleben, B. Grüning
- **9:10** Invited Talk
  Evolution of X chromosome recognition during Drosophila Dosage Compensation. C. I. Keller Valsecchi
- **9:40** **Galaxy Australia - inside the national vision of a data commons** G. Price
- **10:00** **A Machine Learning Tool Suite for Galaxy.** J. Goecks
- **10:20** **An Update on Galaxy Workflows: More Accessible, Expressive, Robust, and Scalable.** J. Chilton, M. van den Beek

Time	
10:30	Break & Sponsors
11:00	Talks - 2 parallel tracks

Admin & Dev. Moderator: H. Rasche — Greece

- **11:00** **GalaxyCloudRunner: Streamlined Cloud Bursting for Galaxy.** N. Goonasekera
- **11:07** **Laniakea: A Galaxy-on-demand Provider Platform Through Cloud Technologies.** M. A. Tangaro
- **11:27** **Enabling Single Sign-On for Multiple Galaxy Instances.** E. Afgan
- **11:34** **How - And How not - to manage successful local Galaxies.** P. Mabon
- **11:54** **Building a Pulsar Network across Europe.** G. Cuccuru

Outside the Genome & Community. Moderator: Y. Le Bras — Germany

- **11:00** **Galaxy Computational Chemistry.** C. Barnett
- **11:20** **Climate Analysis with Galaxy.** A. Fouilloux
- **11:40** **Galaxy Image Analysis: Web-based microscopy image analysis and cellular phenotyping.** T. Wollmann

Time	
12:00	Lunch & Birds-of-a-Feather

Time	
13:20	Trainings - 6 parallel workshops

Epigenetics.
- **ChIP-seq data analysis.** L. Rabbani, D. Ryan — Italy
- **EWAS data analysis for population epigenetics integrated into Galaxy.** K. Poterlowicz — France

Admin & Dev.
- **How to create a Galaxy Tool.** J. Chilton, N. Soranzo — Greece

Variation, Metagenomics & Assembly.
- **Variant calling I - from sequenced reads to variant lists.** W. Maier — Spain
- **16S analysis with Mothur.** S. Hiltemann — Belgium

General
- **Quality control of HTS data.** TBA — Germany

Time	
14:50	Posters, Demos & Sponsors
15:50	Trainings - 5 parallel workshops

Epigenetics.
- **Hi-C analysis.** J. Wolff, L. Rabbani — Italy

Admin & Dev.
- **Scripting Galaxy through BioBlend.** N. Soranzo, M. van den Beek — Greece

Variation, Metagenomics & Assembly.
- **Variant Calling II - causative variant discovery.** W. Maier — Spain
- **Metatranscriptomics & multi-omics microbiome analysis.** T. Griffin, B. Batut, R. Sajulga, P. Jagtap — Belgium

General.
- **Machine learning with Galaxy.** A. Kumar, J. Goecks, A. Khanteymoori — Germany

Time	
17:20	Group picture

Time	
17:30	Talks - 2 parallel tracks

Epigenetics. Moderator: D. Ryan — Greece

- **17:30** **HiCExplorer 3: A toolbox for Hi-C data analysis.** J. Wolff
- **17:50** **Histone Deacetylases 1/2 In Microglia Function During Development And Neurodegeneration.** M. Frosch
- **17:57** **Analysis and visualization of the human cardiac myocyte epigenome using Galaxy.** R. Gilsbach

Outside the Genome & Community. Moderator: A. C. Fouilloux — Germany

- **17:30** **Using Galaxy for Creation and Execution of Text Mining Workflows in the OpenMinTeD platform.** D. Galanis
- **17:50** **To Better Benefit from Shared Tasks in Biomedical Text Mining.** M. Ba
- **17:57** **The LAPPS Grid/Galaxy Platform for Mining Scientific Publications.** A. Mahmoud
- **18:17** **Infrastructure for Healthier Living: Galaxy at Quadram Institute Bioscience.** T. Le Viet
- **18:24** **How Usable is Galaxy? A Usability Evaluation of Galaxy.** N.-H. Truong

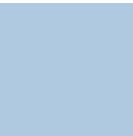| Time	
19:00	Dinner on your own & Birds-of-a-Feather

Legend:
- Outside the Genome & Community
- Epigenetics
- Variation, Metagenomics & Assembly
- Transcriptomics
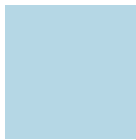- Proteomics & Metabolomics
- General
- Admin & Dev

Galaxy Community Conference
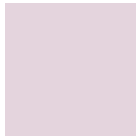
8:00 — Conference Desk Open

9:00 — Talks - 2 parallel tracks

Transcriptomics & Genomics. Moderator: A. Syme — Germany

9:00 Invited Talk
Pou5f3, SoxB1 and Nanog control the Zygotic Genome Activation in Zebrafish. M. Veil

9:30 **Single-cell RNA Analysis in Galaxy on 10X Datasets.** M. Tekman

9:50 **Biology-driven classification of Single-Cells RNAseq data in Galaxy.** C. Antoniewski

10:10 **Improving Transcriptome Analysis with Molecular Indices and Galaxy.** B. W. Langhorst

10:17 **Transposon Insertion Sequencing Analysis in Galaxy.** D. Larivière

9:00 — Talks - 2 parallel tracks

Admin & Dev. Moderator: S. Gladman — Greece

9:00 **Containerizing Galaxy server as a Singularity application on HPC clusters for GenAP.** D. Morais

9:20 **Galaxy on Kubernetes: where we are and future challenges.** P. Moreno

9:40 **A Minimal Docker Image for Galaxy.** S. Golitsynskiy

9:47 **CVMFS-CSI for Galaxy: Efficient Access to Read-only Data in Kubernetes.** A. Mahmoud

9:54 **gxadmin: usegalaxy.* administration wisdom.** H. Rasche

10:14 **Galaxy container for Hinxton Single Cell Interactive Analysis Portal (HiSciAP).** J. Manning

10:30 — Break & Sponsors

11:00 — Talks - 2 parallel tracks

Transcriptomics & Genomics. Moderator: A. Bhardwaj — Germany

11:00 **Aequatus.js: a plugin to visualise gene trees in Galaxy.** A. Thanki

11:20 **Visual Refinement of Genome Annotations with Apollo in a Community Environment.** N. Dunn

11:27 **Architectural and Systems Improvements to G-OnRamp, a Collaborative Eukaryotic Genome Annotation Platform.** L. Sargent

11:34 **ChiRA: an integrated framework for Chimeric Read Annotation.** P. Videm

11:54 **Training experience on "Data analysis and interpretation for clinical genomics" using Galaxy.** G. Cuccuru

Admin & Dev. Moderator: D. Morais — Greece

11:00 **Working Effectively with Remote Data in Galaxy - A Progress Report.** J. Chilton

11:07 **Testing and Visualizing the State of Galaxy Tools and Workflows.** M. Čech

11:27 **Setting up a Galaxy Platform in a HPC Infrastructure for Genomics Implementation into Diagnosis Routines for a Health Reference Center.** M. Juliá

11:34 **RealTimeTools: Integrating, Customizing, and Accessing UI-based Tools in Galaxy.** D. Blankenberg

11:54 **Creating a Universe of Galaxies: The UseGalaxy.* Project.** N. Coraor

12:00 — Lunch & Birds-of-a-Feather

13:20 — Trainings - 5 parallel workshops

Transcriptomics & Genomics.

Single cell RNA-seq analysis I. M. Tekman, A. Ostrovsky — Germany

The RNA workbench, best practices for RNA and high-throughput sequencing bioinformatics in Galaxy. J. Fallmann, F. Eggenhofer — France

Admin & Dev.

Galaxy Code Architecture. J. Chilton, N. Coraor — Greece

General.

Visualization of HTS data. TBA — Italy

Train the Galaxy Trainer. S. Gladman, A. Syme, B. Batut, S. Hiltemann, H. Rasche — Spain

14:50 — Posters, Demos & Sponsors

15:50 — Trainings - 5 parallel workshops

Transcriptomics & Genomics.

Single cell RNA-seq analysis II. M. Tekman, A. Ostrovsky — Germany

Admin & Dev.

Running Galaxy on Kubernetes. E. Afgan, N. Goonasekera, A. Mahmoud, S. Golitsynskiy, P. Moreno — Greece

Visualisation development in Galaxy. A. Guerler, J. Goecks, A. Kumar — France

General.

Beyond the Intro: Further Adventures in Using Galaxy? M. Heydarian, J. Hillman-Jackson — Italy

Making your open source project awesome. Y. Yehudi, B. Batut — Spain

17:30 — Talks - 1 plenary track

Plenary. Moderator: F. Coppens — Greece

17:30 Invited Talk
Galaxy Community Update. J. Goecks, D. Blankenberg, A. Nekrutenko, J. Taylor

18:00 **Tool Prediction in Galaxy Workflows using Deep Learning.** A. Kumar

18:07 **Street Science Community: make science tangible & accessible by bringing it to the "street" with open science workshops.** T. Müller

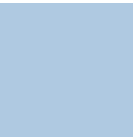**19:30** — Conference dinner at Augustiner im Bankepeter

Outside the Genome & Community · Epigenetics · Variation, Metagenomics & Assembly

Transcriptomics · Proteomics & Metabolomics · General · Admin & Dev

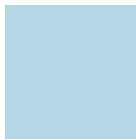# Galaxy Community Conference

8:00 Conference Desk Open

9:00 Talks - 2 parallel tracks

Proteomics & Metabolomics. Moderator: M. Föll — Greece

9:00 **Metaproteomics Powered By Metatranscriptomics: Towards a Multi-omic Functional Microbiome Analysis Within Galaxy.** P. Jagtap

9:20 **Interactive Galaxy Visualizations for Multi-omics Research.** R. Sajulga

9:27 **ProteoRE, a Galaxy-based platform for the annotation and the interpretation of proteomics data in biomedical research.** F. Combes

9:47 **Galaxy Wrapper for MaxQuant.** D. Glätzer

9:54 **Application of Halogen Bonding in Molecular and Drug Design Facilitated by a Galaxy Webserver.** F. M. Boeckler

Outside the Genome & Community. Moderator: B. Batut — Germany

9:00 Invited Talk
Data visualisation by citizen science participants: the case of birds and bats monitoring schemes and Galaxy-E. R. Lorrillière, Y. Bas

9:30 **Galaxy-Bricks a Tool for Data Literacy and Scientific Approach Education in the Context of Citizen Science.** S. Bénateau

9:37 **Citizen Science Project in Ecology with the Galaxy-E Platform.** B. Yguel

9:44 **Galaxy-E project: 2019 news.** Y. Le Bras

10:04 **The ChemicalToolBox - Computational Chemistry in Galaxy.** S. Bray

10:11 **Improved Reference Data Management in Galaxy: Towards a Plant Data Analysis Platform.** I. Eguinoa

10:18 **Use Galaxy, Right Now!** D. Clements

10:25 **Galaxy Publication Library.** D. Clements

10:30 Break & Sponsors

11:00 Talks - 2 parallel tracks

Proteomics & Metabolomics. Moderator: P. Jagtap — Greece

11:00 **Analysing and organising large-scale metabolome annotation studies with Django, ISA and Galaxy.** T. N. Lawson

11:20 **Reproducible and accessible analysis of spatially resolved proteomics and metabolomics data.** M. Föll

11:40 **Workflow4Metabolomics: an international computing infrastructure for Metabolomics.** G. Le Corguillé, M. Petera, R. Dallet

Variation, Metagenomics & Assembly. Moderator: S. Hiltemann — Germany

11:00 **The IRIDA Platform for Microbial Genomics.** A. Petkau

11:20 **Combat-tb: Workbench, A Customizable Platform For Variant Discovery And Annotation, Phylogeny Construction And Variant Prioritisation.** Z. Mashologu

11:27 **High throughput HIV next generation sequence analysis in Galaxy.** D. Bouvier

11:47 **NanoGalaxy: A Galaxy toolkit and workflows for long-read sequencing.** W. de Koning

11:54 **MITOLINK: An integrated Web-based Workflow System to Evaluate Genotype-Phenotype Correlations in Human Mitochondrial Diseases.** A. Bhardwaj

12:00 Lunch & Birds-of-a-Feather

13:20 Trainings - 5 parallel workshops

Proteomics & Metabolomics.

Metabolomics data analysis I. G. Le Corguillé, M. Petera, R. Weber, T. Lawson — France

Proteomic data analysis. M. Föll, M. Fahrner, M. Stillger — Belgium

Variation, Metagenomics & Assembly.

Assembly, annotation and analysis of bacterial genomes. D. Larivière, A. Syme, S. Gladman — Italy

Admin & Dev.

CVMFS and Pulsar. H. Rasche, S. Gladman, N. Coraor, G. Cuccuru — Greece

Outside the Genome & Community.

Import, handle, visualize and analyze biodiversity data in Galaxy. Y. Le Bras, S. Bénateau — Spain

General.

Machine learning with Galaxy. A. Kumar, A. Khanteymoori — Germany

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14:50 Posters, Demos & Sponsors

15:50 Trainings - 5 parallel workshops

Proteomics & Metabolomics

Metabolomics data analysis II. G. Le Corguillé, M. Petera, R. Weber, T. Lawson — France

MALDI imaging of peptides data analysis. M. Föll, M. Fahrner, M. Stillger — Belgium

Variation, Metagenomics & Assembly

Genomic assembly and data analysis in Galaxy with Nanopore ONT long read sequencing. S. Hiltemann, M. Miladi, W. de Koning — Greece

Admin & Dev.

ELIXIR Galaxy AAI. K. Klepper — Italy

Outside the Genome & Community.

Populations genomics with RADseq. Y. Le Bras, S. Bénateau — Spain

General.

Handling integrated biological data using Python, Jupyter, and InterMine. Y. Yehudi — Germany

17:30 Talks (1 plenary track)

Plenary. Moderator: A. Lonie — Greece

17:30 Invited Talk
UseGalaxy: Elucidating chromatin biology of mouse cardiomyocytes. S. Nothjunge

18:00 **Galaxy and Training: 2019 updates from the Galaxy Training Network.** B. Batut

18:20 **Closing.** B. Grüning, A. Erxleben, D. Clements

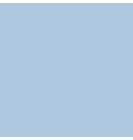**19:00** Dinner on your own & Birds-of-a-Feather

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Galaxy Community Conference