Monday 1st July

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

Tuesday 2nd July

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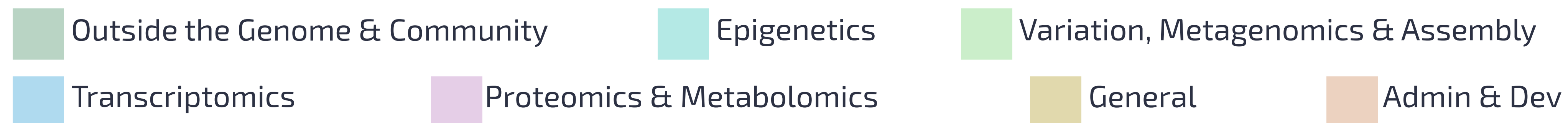
8:00	Conference Desk Open
9:00	Talks - 1 plenary track

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

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

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

Column 2

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

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

17:20	Group picture

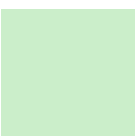## Column 3

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

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

Wednesday 3rd July

Column 1

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

Column 2

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

Column 3

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

Legend

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

Galaxy Community Conference

Thursday 4th July

| 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 |

Legend:
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Galaxy Community Conference