

## Garuda Workshop

### Re-imagining Connectivity in Biology and Medicine

Dates: **15 & 16 May 2017**

Venue: **Gini hall - Building CU002, Dept. of Statistical Sciences, Università degli Studi di Roma "La Sapienza" , Piazzale Aldo Moro 5, 00185 Roma, Italy.**

Organizers: **Bioinformatics course (Prof P. Tieri, F. Cincotti), Laurea Magistrale in Data Science, La Sapienza University of Rome & The Systems Biology Institute, Tokyo, Japan & CNR IAC Istituto per le Applicazioni del Calcolo, Rome, Italy.**

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With the explosion of data in different dimensions of drug discovery, biomedicine and healthcare, a key challenge is the ability to connect the disparate data sources, discover the right analytics tools for a specific analysis and navigate through inter-operable analytics to provide executable insights. Garuda is an open, community-driven, platform that provides a framework to discover, connect & navigate through different applications on devices as well as in the cloud.

Through this workshop, we will provide an overview of **Garuda platform**, the **alliance eco-system** and a brief demonstration of the **platform in action** together with its various components. The demonstration is specifically designed to cater to an array of audience from different backgrounds with a goal towards re-imagining connectivity and integrated analytics in biomedical research, healthcare and beyond.

Registration: **[MailScanner ha rilevato un possibile tentativo di frode proveniente da "54.95.52.79" MailScanner warning: numerical links are often malicious: http://54.95.52.79/Rome2017/rome2017.html](http://54.95.52.79)**

Attendance is limited to **30 people**. Registration is free but mandatory. **Registration deadline: ~~May 10th 2017~~ May 14th 2017**. For further info please contact **Paolo Tieri (paolo DOT tieri AT cnr DOT it)** or **Vipul Gupta (vgupta AT sbi DOT jp)**.

## Workshop Program

### May 15 2017

**Session 1 (9.30 am -12.30 pm):** Garuda Platform introduction and demonstration of its basic architecture.

**Session 2 (2 pm - 5pm), hands-on 1:** Biological Pathway Modeling and Simulation. Attendees will learn how-to construct, simulate and manipulate biological networks in Garuda.

### May 16 2017

**Session 1 (9.30 am -12.30 pm), hands-on 2:** Microarray Data Analytics. Participants will download processed microarray expression data from TG-gate (<http://toxico.nibiohn.go.jp/english/>) and perform enrichment analysis using gadgets such as Reactome, Biocompendium, ipath etc.

**Session 2 (2 pm - 5pm):** In the final session of this 2-day workshop, attendees will learn from Garuda Technical Lead on how to "Garudify" their tool/scripts and publish it as a "Gadget" on Garuda Gateway.