

Thursday 27th September 2018

**Centro de Biología Molecular Severo Ochoa
(CSIC-UAM), Cantoblanco, Madrid, Spain**

***"NGS and supercomputing, life as a couple (II)
&
VII CBMSO NGS workshop"***

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& VII CBMSO NGS workshop "**

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Next Generation Sequencing technology needs to be intimately linked to supercomputing to be able to process and store all the massive generated data. NGS technologies are essential these days on projects of all disciplines related to biology and medicine. The huge amount of data generated needs to be stored and processed in supercomputers to be kept for future use and to be understandable. All this needs to be well coordinated with a total interaction between NGS and supercomputing. In this workshop it will be presented how and where to archive NGS data, computational needs for small and medium research centers as well as for national infrastructures, how computing enterprises are moving to genomics and biomedicine, and some researchers will show their particular needs for their projects.

Registration: <https://www.res.es/es/eventos/ngs-and-supercomputing-life-couple-ii-vii-cbms0-ngs-workshop>

Fees: The workshop is free of charge, but previous registration is mandatory.

Venue: Ramón Areces Seminar Room.
Centro de Biología Molecular Severo Ochoa (CBMSO) CSIC-UAM.
Campus de Excelencia Internacional (CEI) UAM+CSIC. Cantoblanco, Madrid, Spain.

How to arrive:
<http://www.cbm.uam.es/joomla-rl/index.php/en/about-cbms0/how-to-get-to-the-cbms0>

Program

09:15 – 09:45 Registration

09:45 – 10:00 **José Félix de Celis.** Welcome

José Manuel González Sancho. Introduction to workshop.

10:00 – 10:30 **Sandra González de la Fuente.** “A CBMSO Genomics and NGS Facility experience: reassembling *Leishmania infantum* genome”

10:30 – 11:00 **Ricardo Ramos Ruiz.** “From samples to libraries. Perspective from a core facility”

11:00 – 11:20 **Marta Renato - Alberto Luna.** “Spanish Supercomputing Network (RES): resources and access”

11:20-11:50 Coffee Break

11:50 – 12:20 **Sergi Beltrán Agulló.** “Pilot projects for the implementation of Personalized Medicine”

12:20 – 12:50 **Javier Herrero.** “Clonal dynamics in childhood ALL using single cell whole genome sequencing”

12:50 – 13:20 **Jordi Rambla de Argila.** “Human data sharing: the state of the art”

13:20 – 13:40 **Alicia Vela Boza.** “One Roche in sample prep: unlock the potential of every sample”

13:40 – 15:00 Lunch

15:00 – 15:30 **Ave Tooming-Klunderud.** “Long read sequencing at Norwegian Sequencing Centre”

15:30 – 16:00 **Alba Blesa - José Berenguer.** “Sequencing hitches & troubleshooting in *Thermus thermophilus*”

16:00 – 16:30 **Emily Jane Richardson.** “Finding and filtering errors in hybrid assemblies”

16:30 – 16:45 Coffee Break

16:45 – 17:15 **José Javier Lucas.** “Alternative splicing alterations in Huntington’s Disease”

17:15 – 17:45 **Carlos Pedrós Alió.** “An ocean full of microbes”

17:45 – 18:05 **Albert Valls Badía.** “Genomics and infrastructure evolution: storage, compute and cognitive systems”

18:05 – 18:30 **Discussion.** Practical case

18:30 – 18:45 **Begoña Aguado.** Closure

18:45 – 19:30 Networking drinks

Organizers: Genomics and NGS Facility, CBMSO (CSIC-UAM), Madrid, Spain



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Introduction to workshop:

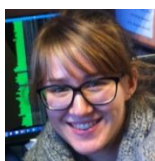


José Félix de Celis
CBMSO Director, CBMSO (CSIC-UAM), Madrid, Spain.

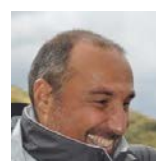


José Manuel González Sancho
Research Vicechancellor, UAM, Madrid. Spain.

Speakers:



Sandra González de la Fuente
Genomics and NGS Facility, CBMSO (CSIC-UAM), Madrid, Spain.



Ricardo Ramos Ruiz
Cantoblanco Genomics Unit (CSIC-UAM), Madrid, Spain.



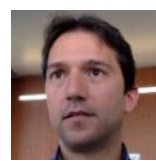
Alberto Luna Fernández
Scientific Computing Center (CCC), UAM, Madrid, Spain.



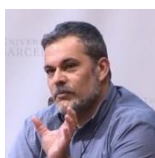
Marta Renato Sánchez
Spanish Supercomputing Network (RES), Barcelona, Spain.



Sergi Beltrán Agulló
National Center for Genomic Analysis (CNAG), Barcelona, Spain.



Javier Herrero
University College, London, UK.



Jordi Rambla de Argila
European Genome-Phenome Archive (EGA), Barcelona, Spain.



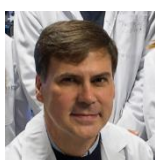
Ave Tooming-Klunderud
Norwegian Sequencing Centre, Oslo, Norway.



José Berenguer Carlos
CBMSO, Madrid, Spain



Alba Blesa Esteban
CBMSO, Madrid, Spain.



José Javier Lucas
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Emily Jane Richardson
MicrobesNG, University of Birmingham, UK.



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Alicia Vela Boza
Roche Diagnostics, Barcelona, Spain.



Albert Valls Badía
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