



WHO...



David Castillo
CNAG-CRG



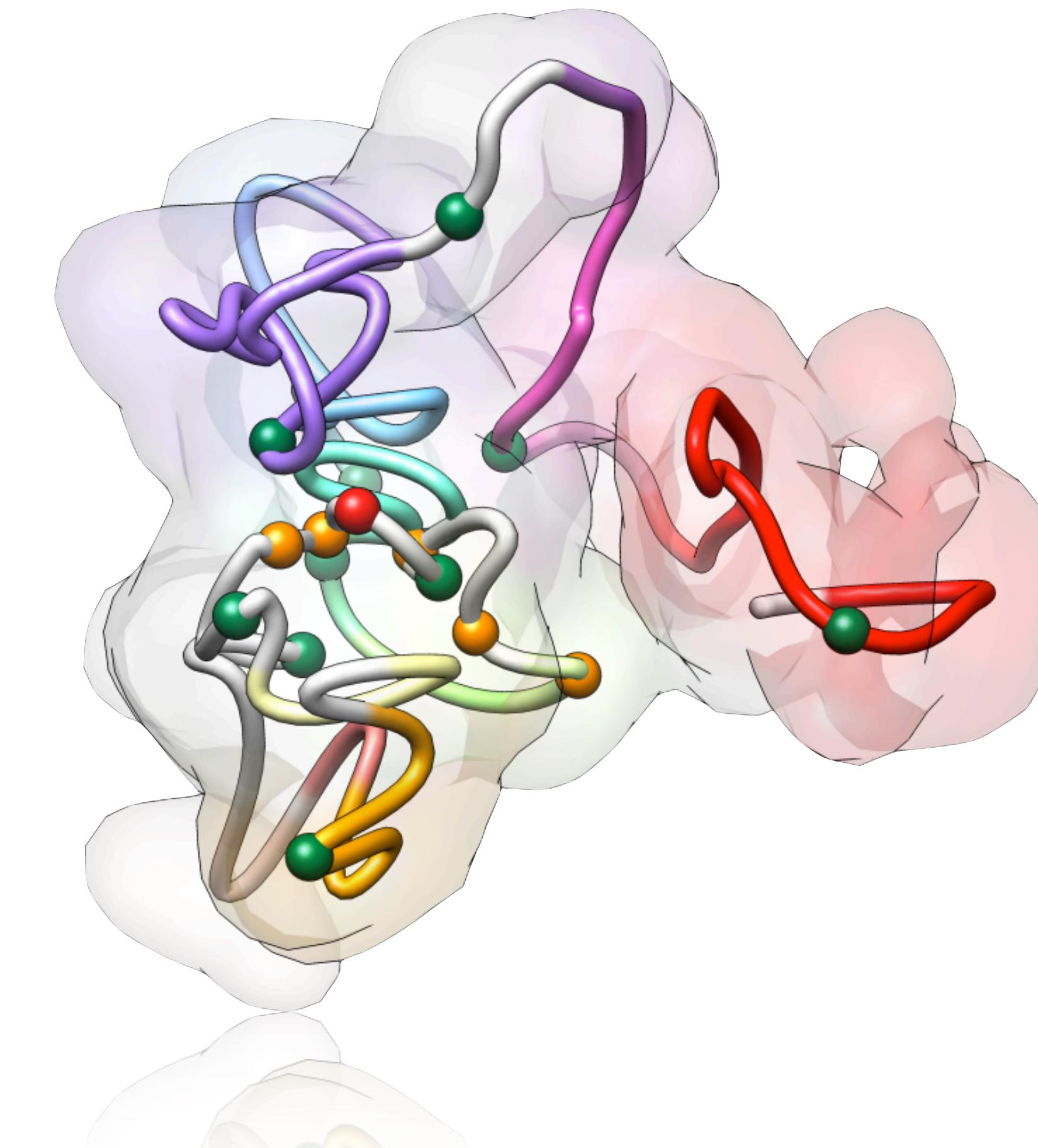
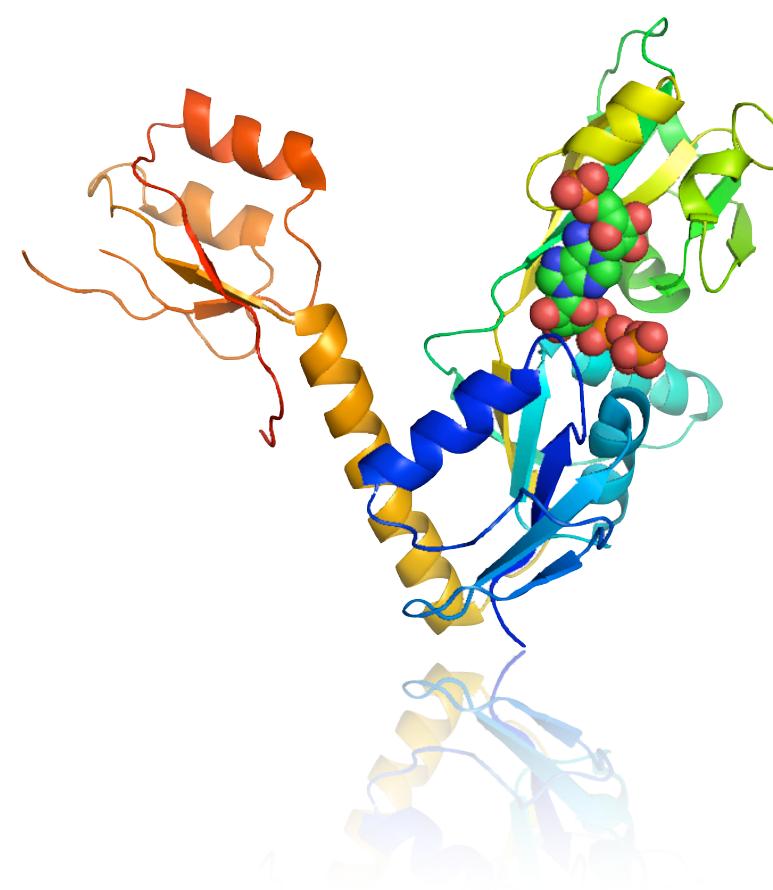
Marco Di Stefano
IGH-CNRS



Pedro Fernandes
IGC

Structural Genomics Group

<http://www.marciuslab.org>



Course outline

| Day #1 | |
|---------------|--|
| 09:30 - 10:00 | Welcome and introductions (Marc) |
| 10:00 - 11:00 | Overview on structure determination (Marc) |
| 11:00 - 11:30 | Break |
| 11:30 - 12:30 | 3D Genomics (Marc) |
| 12:30 - 14:00 | Lunch |
| 14:00 - 15:00 | Live Introduction to Linux and working environment (Marco/David) |
| 15:00 - 16:00 | Next Generation Sequencing (NGS) and data handling (Marco/David) |
| 16:00 - 16:30 | Break |
| 16:30 - 18:00 | From raw data to Hi-C contact matrices (Marco/David) |
| Day #2 | |
| 09:30 - 10:00 | Morning wrap-up: what have we done so far? QUESTIONS? |
| 10:00 - 11:00 | Chromatin structure and Hi-C data (Marc) |
| 11:00 - 11:30 | Break |
| 11:30 - 12:30 | Integrative modeling applied to chromatin (Marc) |
| 12:30 - 14:00 | Lunch |
| 14:00 - 16:00 | Biological application (I) (Marc) |
| 16:00 - 16:30 | Break |
| 16:30 - 18:00 | Hi-C contact matrices: filtering and normalization (Marco/David) |

Course outline

| Day #3 | |
|---------------|---|
| 09:30 - 10:00 | Morning wrap-up: what have we done so far? QUESTIONS? |
| 10:00 - 11:00 | Biological applications (II) (Marc) |
| 11:00 - 11:30 | Break |
| 11:30 - 12:30 | Compartment detection and analysis (Marco/David) |
| 12:30 - 14:00 | Lunch |
| 14:00 - 16:00 | Topologically Associated Domains detection and analysis (Marco/David) |
| 16:00 - 16:30 | Break |
| 16:30 - 18:00 | Comparison between experiments (Marco/David) |
| Day #4 | |
| 09:30 - 10:00 | Morning wrap-up: what have we done so far? QUESTIONS? |
| 10:00 - 11:00 | Biological applications (III) (Marc) |
| 11:00 - 11:30 | Break |
| 11:30 - 12:30 | 3D Modeling of real Hi-C data with TADbit (I) (Marco/David) |
| 12:30 - 14:00 | Lunch |
| 14:00 - 16:00 | 3D Modeling of real Hi-C data with TADbit (II) (Marco/David) |
| 16:00 - 16:30 | Break |
| 16:30 - 17:00 | Final wrap-up session |

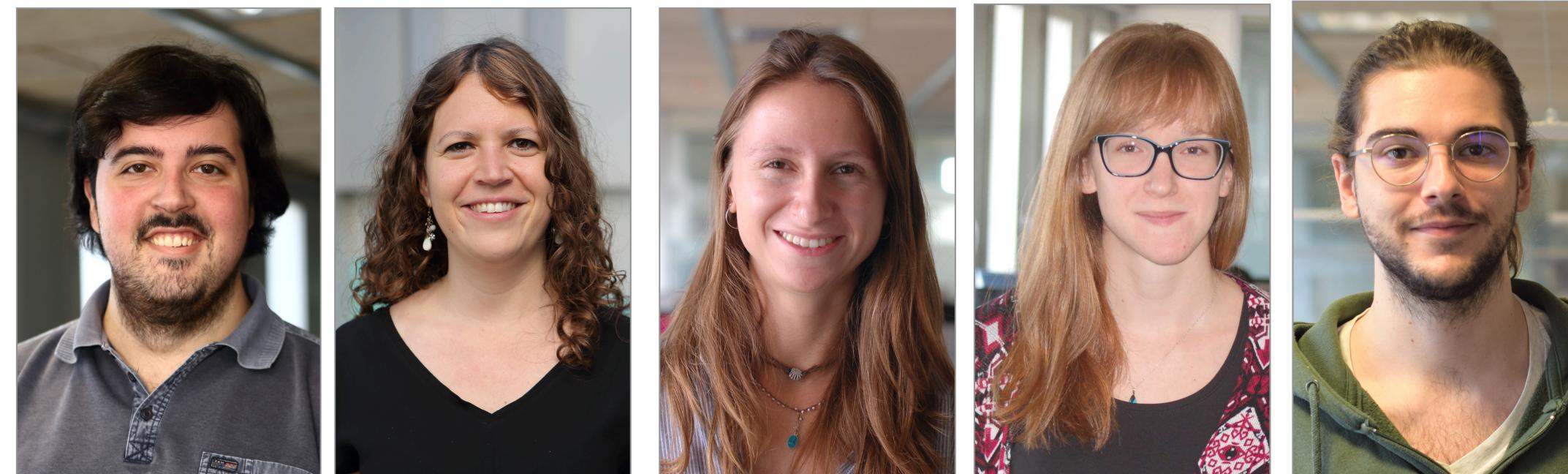
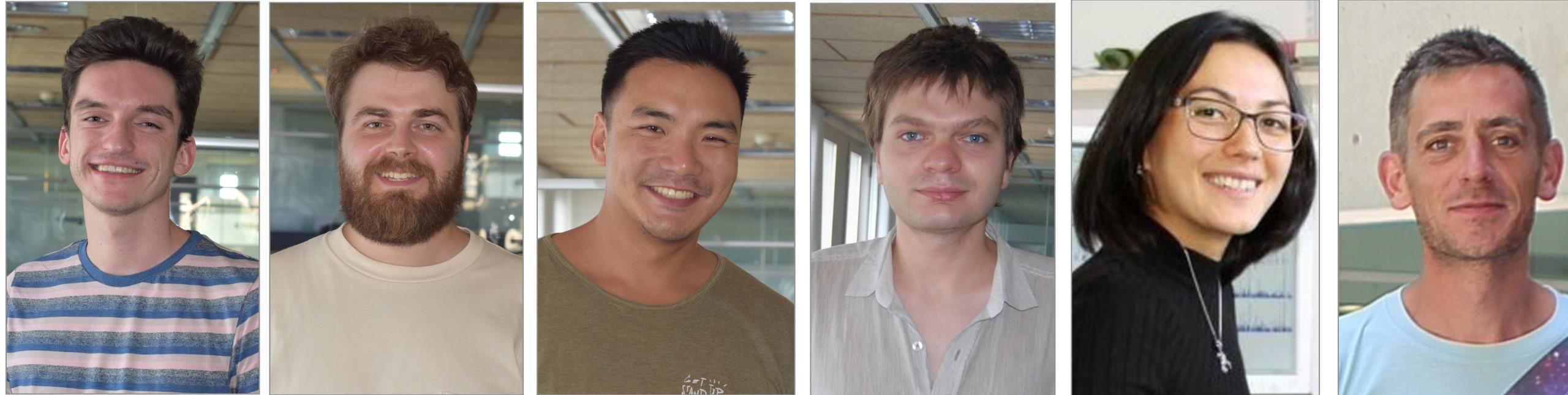
Around the table...



<http://marciuslab.org>
<http://3DGenomes.org>



Alexander Barclay
Nikolai Bykov
Constantin Diekmann
Ronan Duchesne
Iana Kim
François Le Dily
Iago Maceda
Maria Martí-Marimon
Meritxell Novillo
Aleksandra Sparavíer
Leo Zuber



David Castillo
Marco Di Stefano
Irene Farabella
Alicia Hernández
Francesca Mugianesi
Juan A. Rodriguez



.: Our current sponsors :.

.: Conflict of Interest Statement :.

Marc A. Martí-Renom serves as a consultant to Acuity Spatial Genomics, Inc., and receives compensation for these services.

