

Tuesday 4th May, 2021
Tuesday 11th May, 2021

Zoom Webinar

<https://us02web.zoom.us/j/87416554116?pwd=NHBkeDIMdVh6K1AvVmpXZ0hDYXJGdz09>

Scientific visualization of molecular processes in the cellular environment

SPEAKER: **Monica Zoppè** (monica.zoppe@cnr.it)

*Istituto di Biofisica CNR, Milano
Dip. BioScienze, UniMi*

Tiziana Loni
CG artist, Dundee, UK

ORGANIZER: **Eloise Mastrangelo**

*Istituto di Biofisica CNR, Milano
Dip. BioScienze, UniMi*



PROGRAM

Day 1, Tuesday 4th May 2021

8:30 – 9:00 Registration and Welcome

9:00 – 15:00 (lunch break included)

Proteins in the cellular environment

Dimensions and relations

Internal movements (conformational changes)

Relative movements (displacements)

Representation and visualization

Primary info

Structure and surfaces

Other properties that can be visualized

Visualization tools

Classical scientific tools

Computer graphics (Blender, Maya etc.)

BioBlender

BLENDER DEMO with assistance of professional CG artist (Tiziana Loni, Dundee, UK)

Day 2, Tuesday 11th May 2021

9:00 – 15:00 (lunch break included)

3D Computer Graphics

Virtual objects

Textures

Background and environment

CG 3D virtual components

Lights

Cameras

Render (passes)

DEMO small projects in groups (depending on COVID restrictions), with assistance of Tiziana Loni

