IMAGEN - Biotech

Sample Images
to Illustrate Innovative Software Potential

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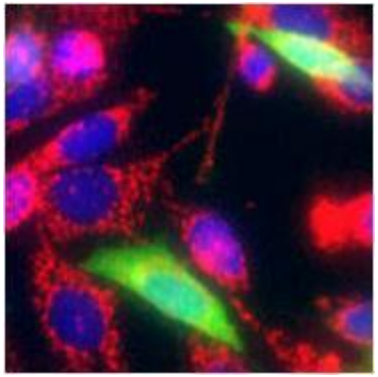
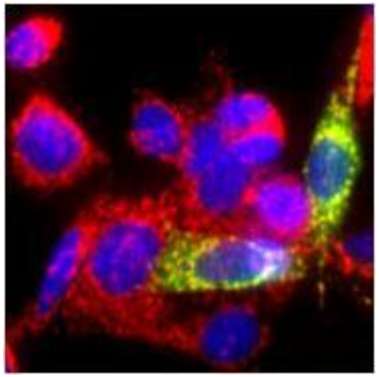
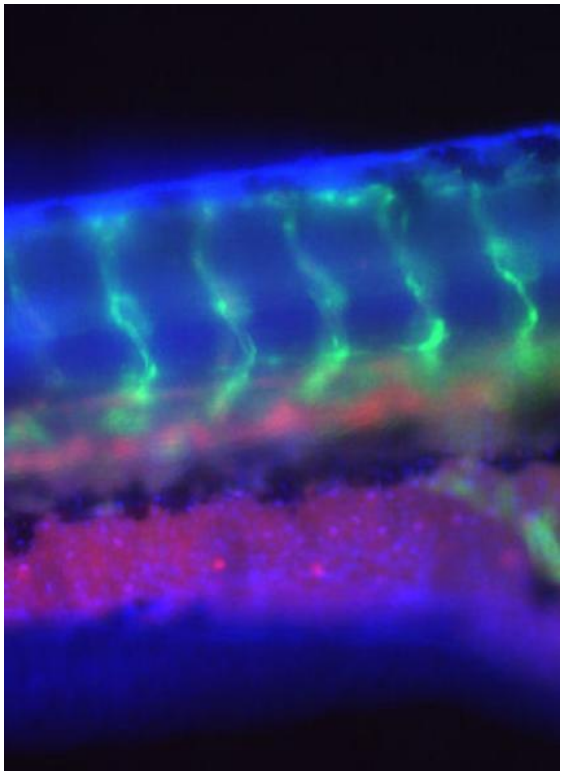
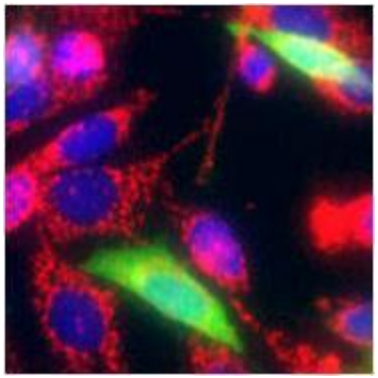
The Input



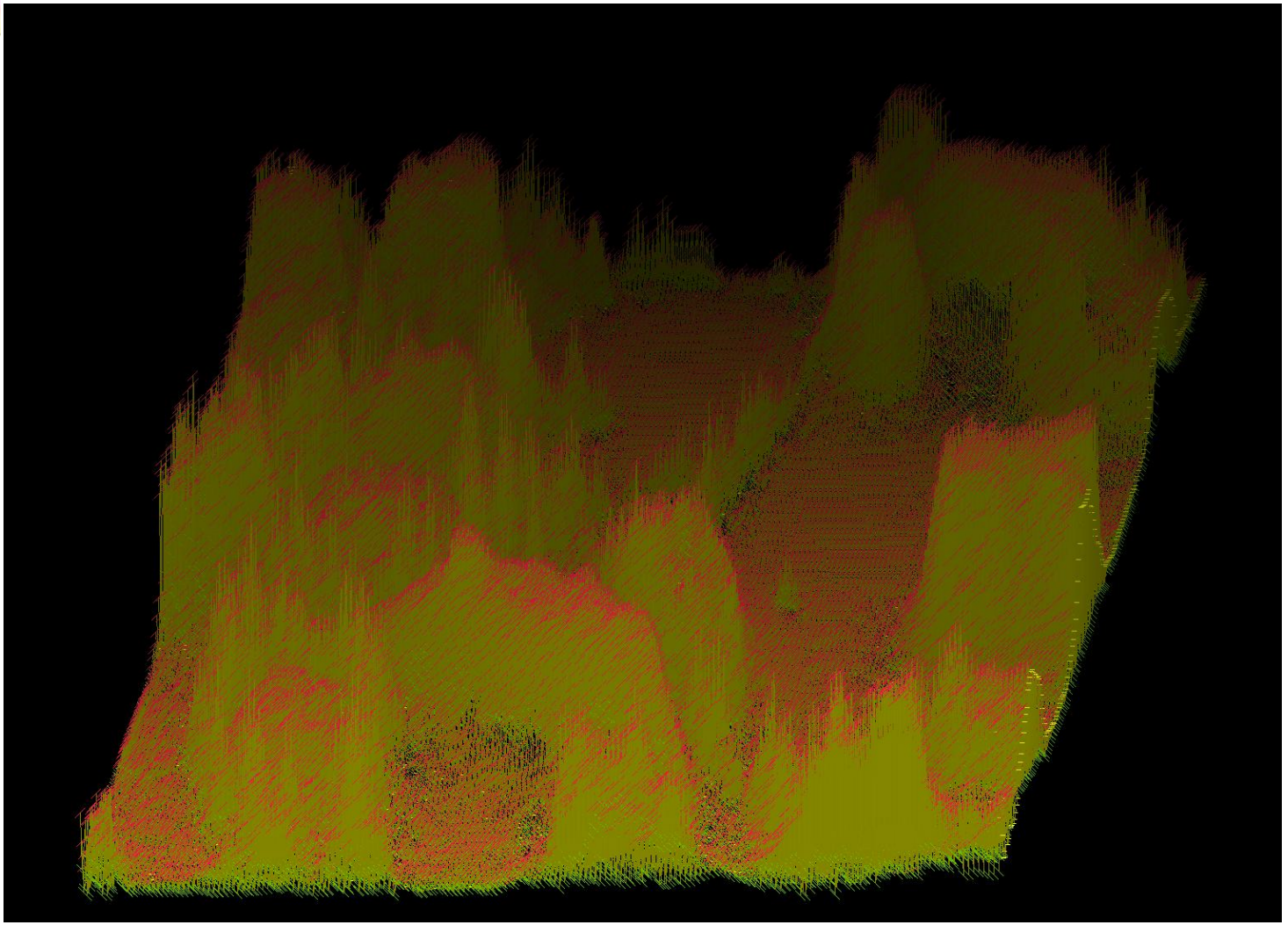


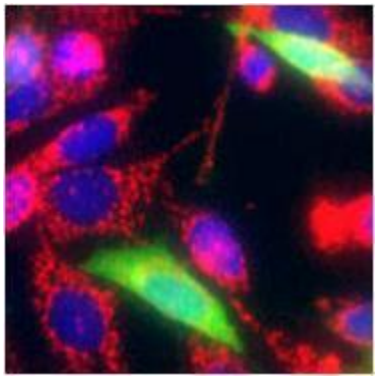




The Re-Visualization: Co-Loc1

Individual re-visualizations show:
• new perspectives
• more detail.

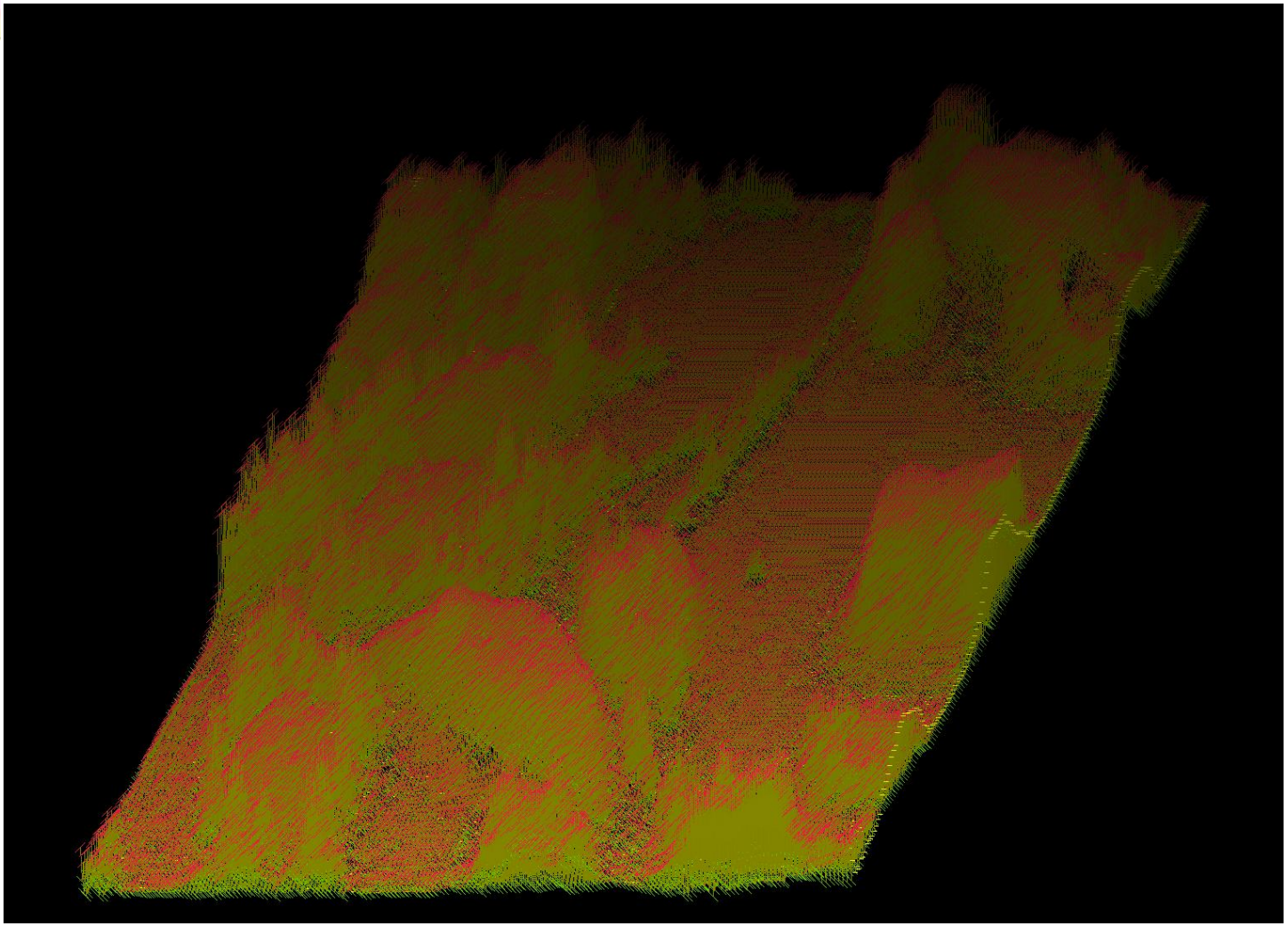


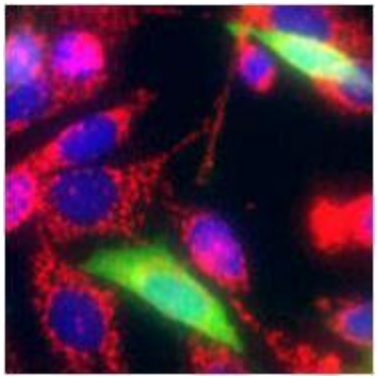


Co-Loc1 with Changed Viewing Parameters

Viewing parameters for new perspectives reveal:

- new relationships
- significant correlations.

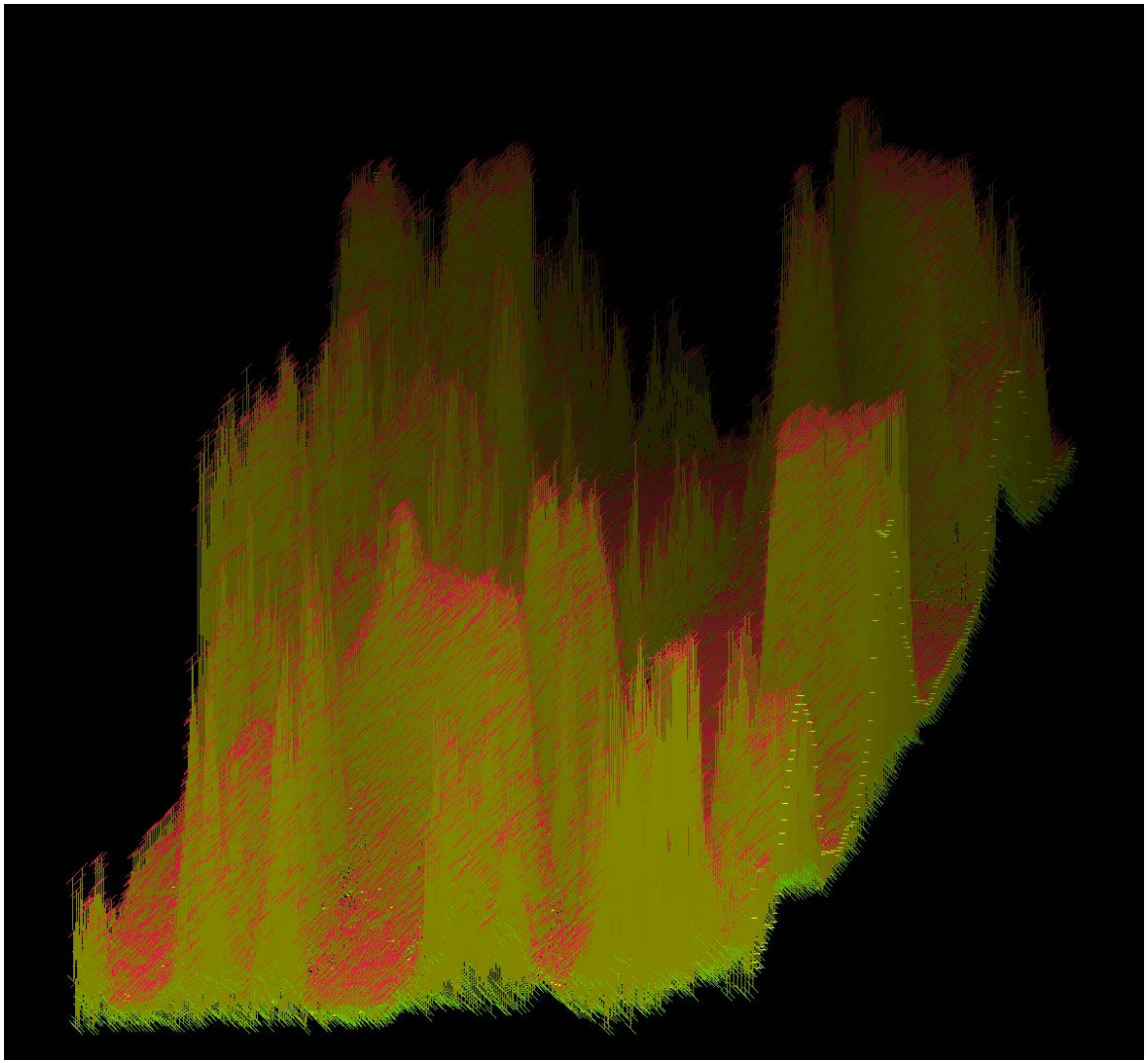


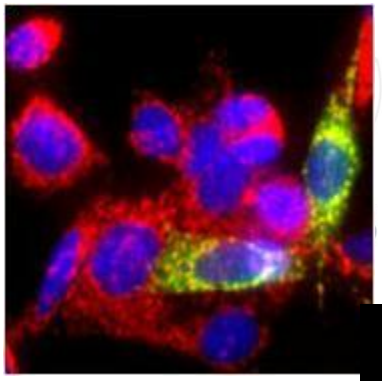


Co-Loc1 with Changed Viewing Parameters

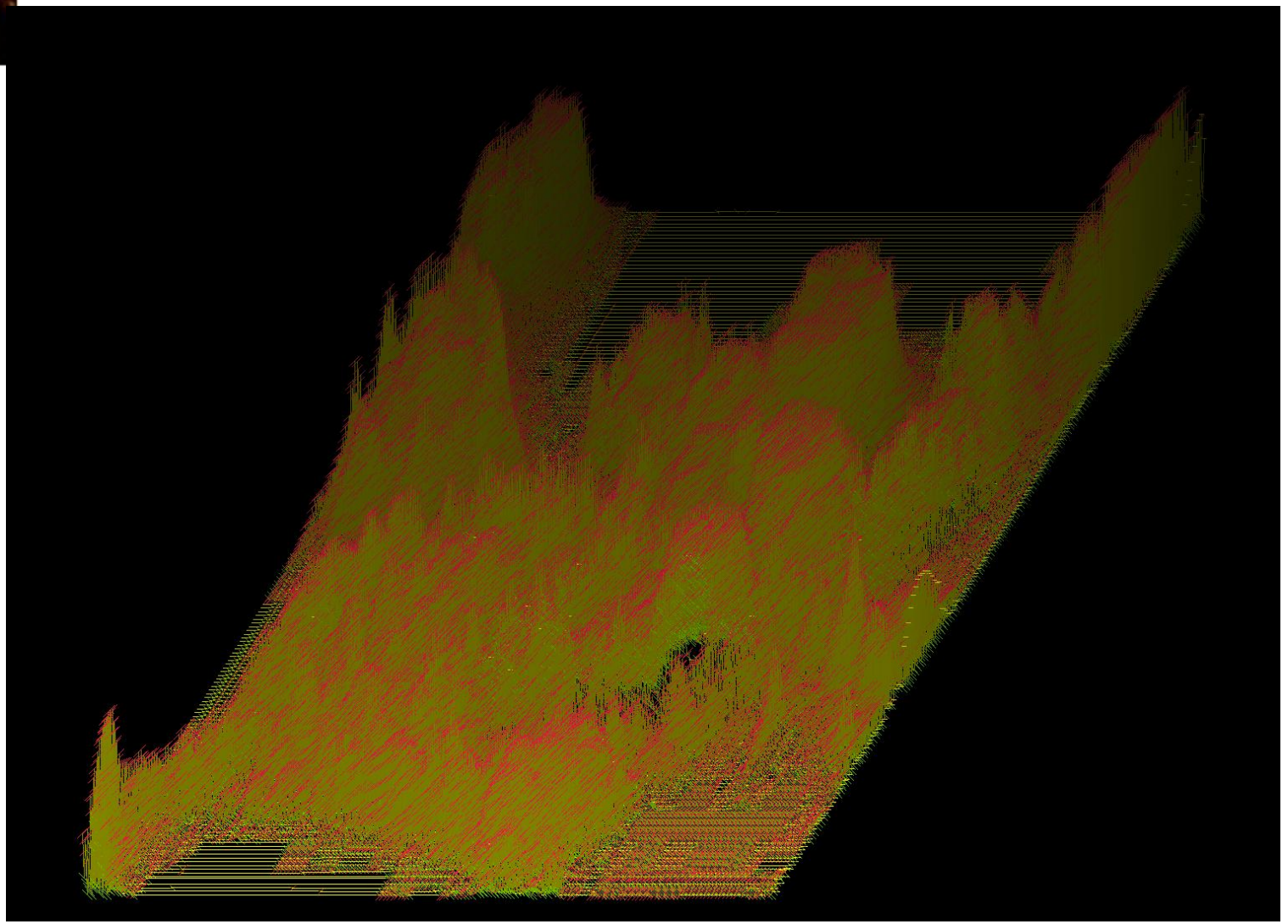
The variation of viewing parameters allows for the investigation of:

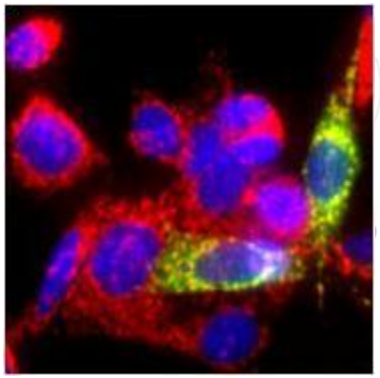
- image components and their descriptors
- verbal and numerical descriptions.



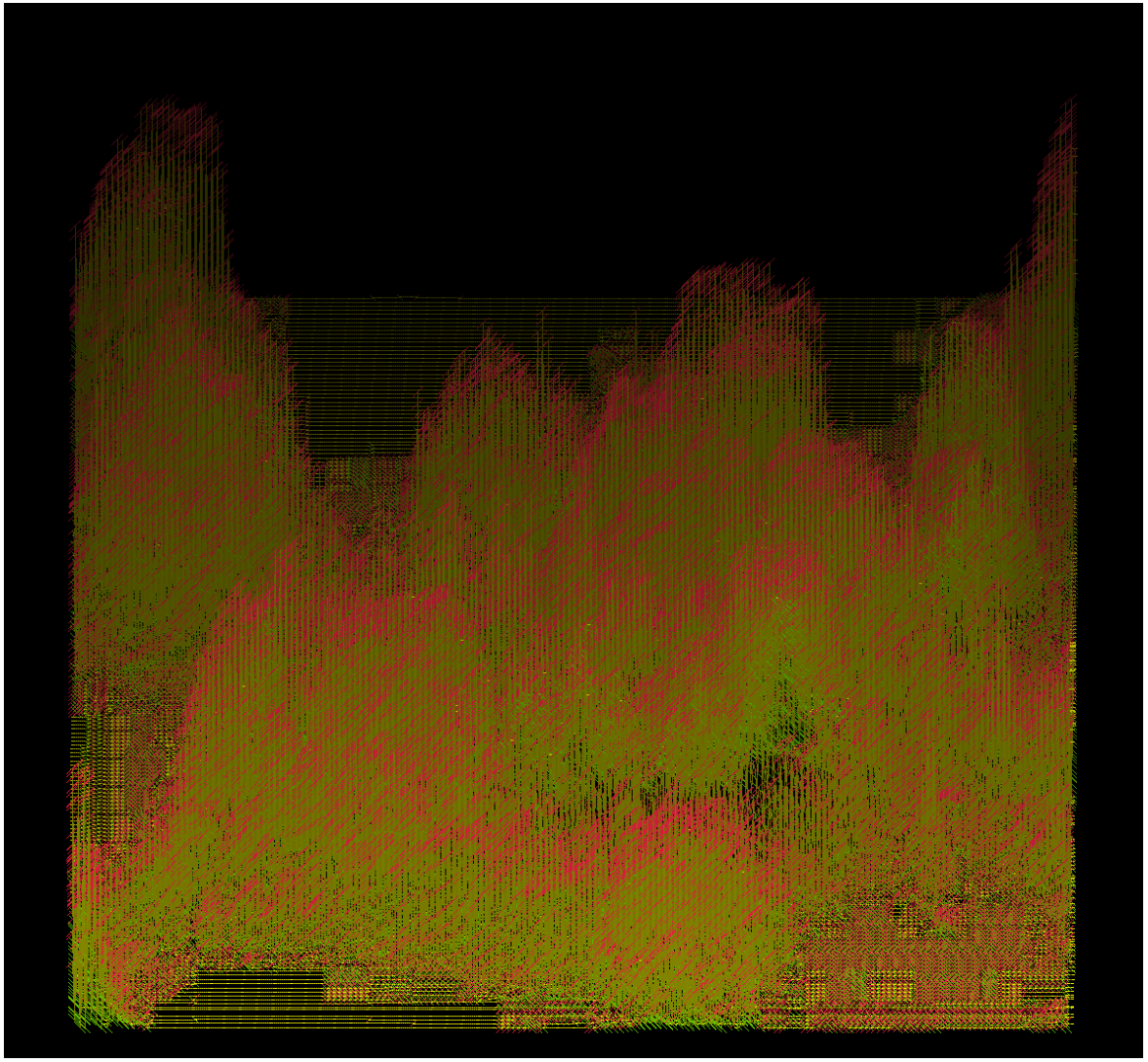


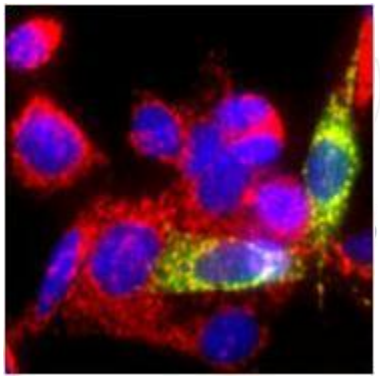
Re-Visualization: Co-Loc2



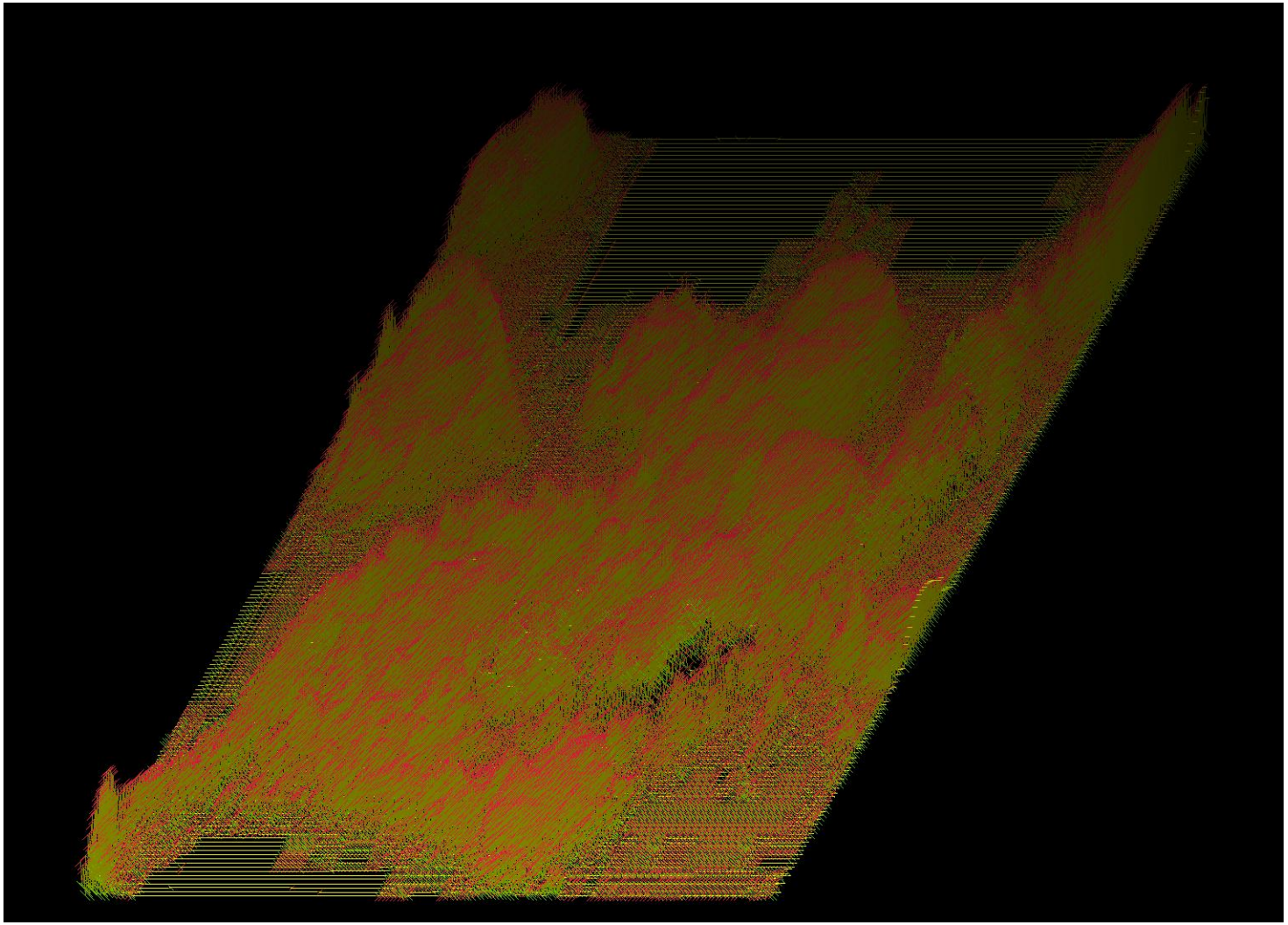


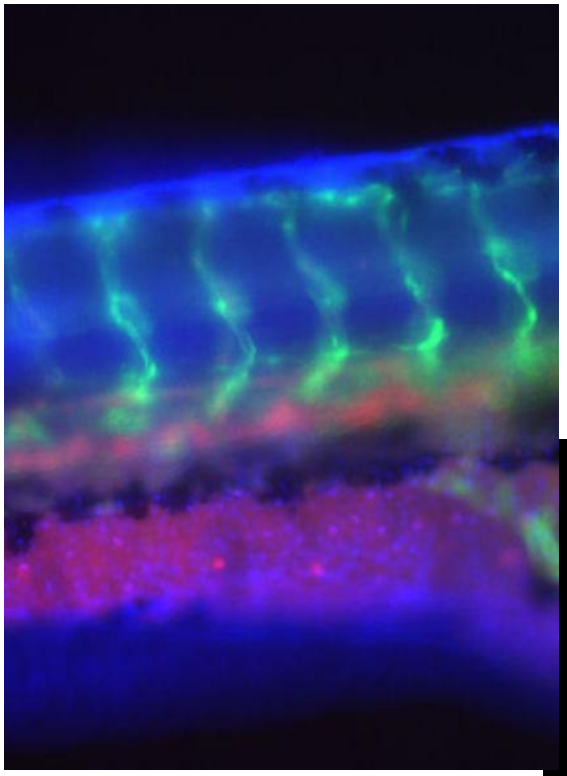
Co-Loc2 with Changed Viewing Parameters



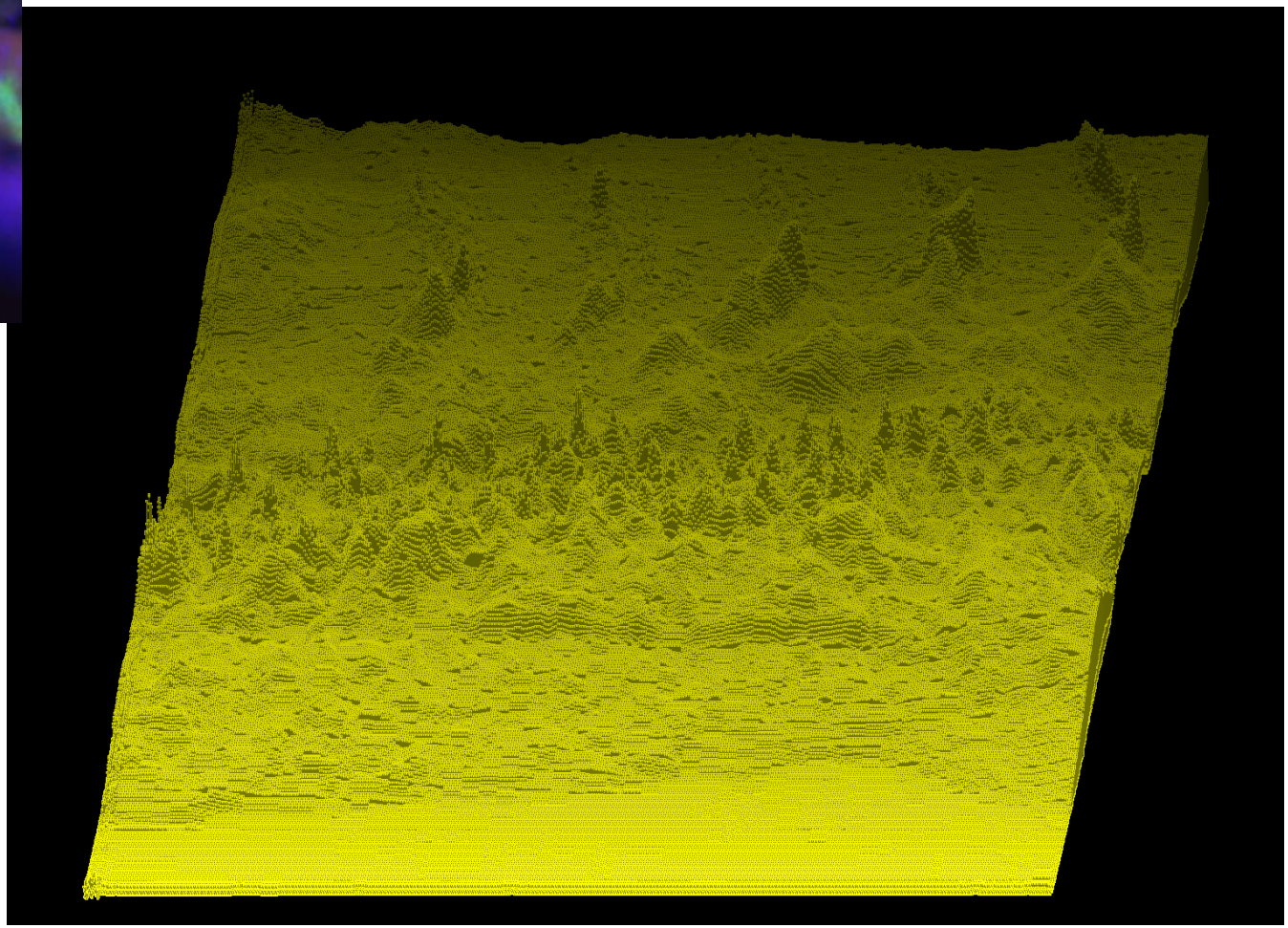


Co-Loc2 with Changed Viewing Parameters



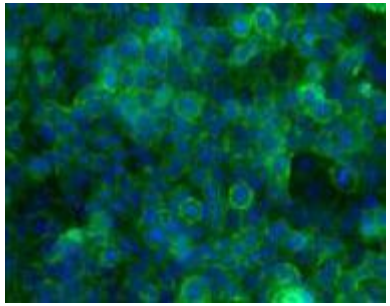
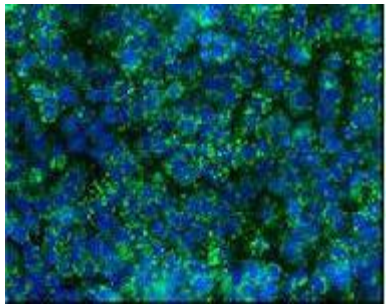
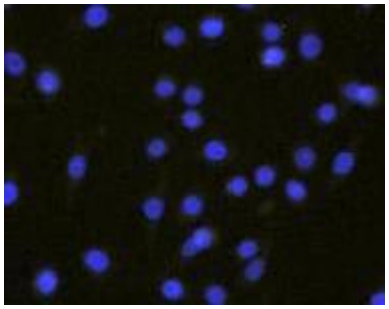
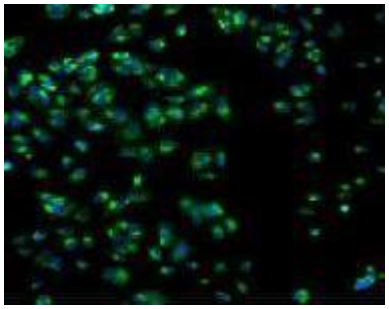
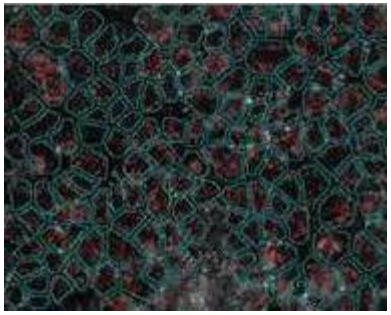
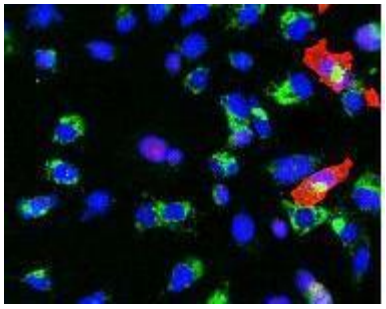
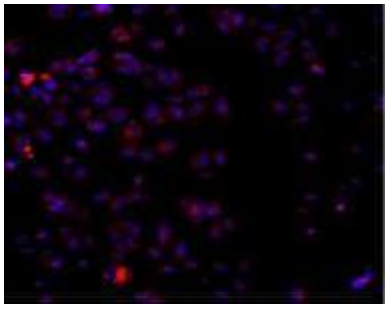


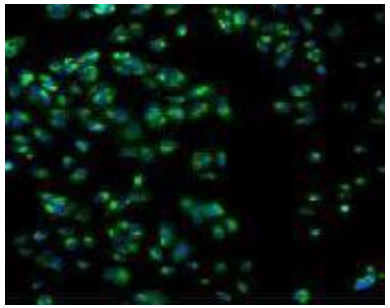
Re-visualization: Zebra



"3dM datascapes" offer a new 'metric view' of an image, with new scope for visual effects and highlights.

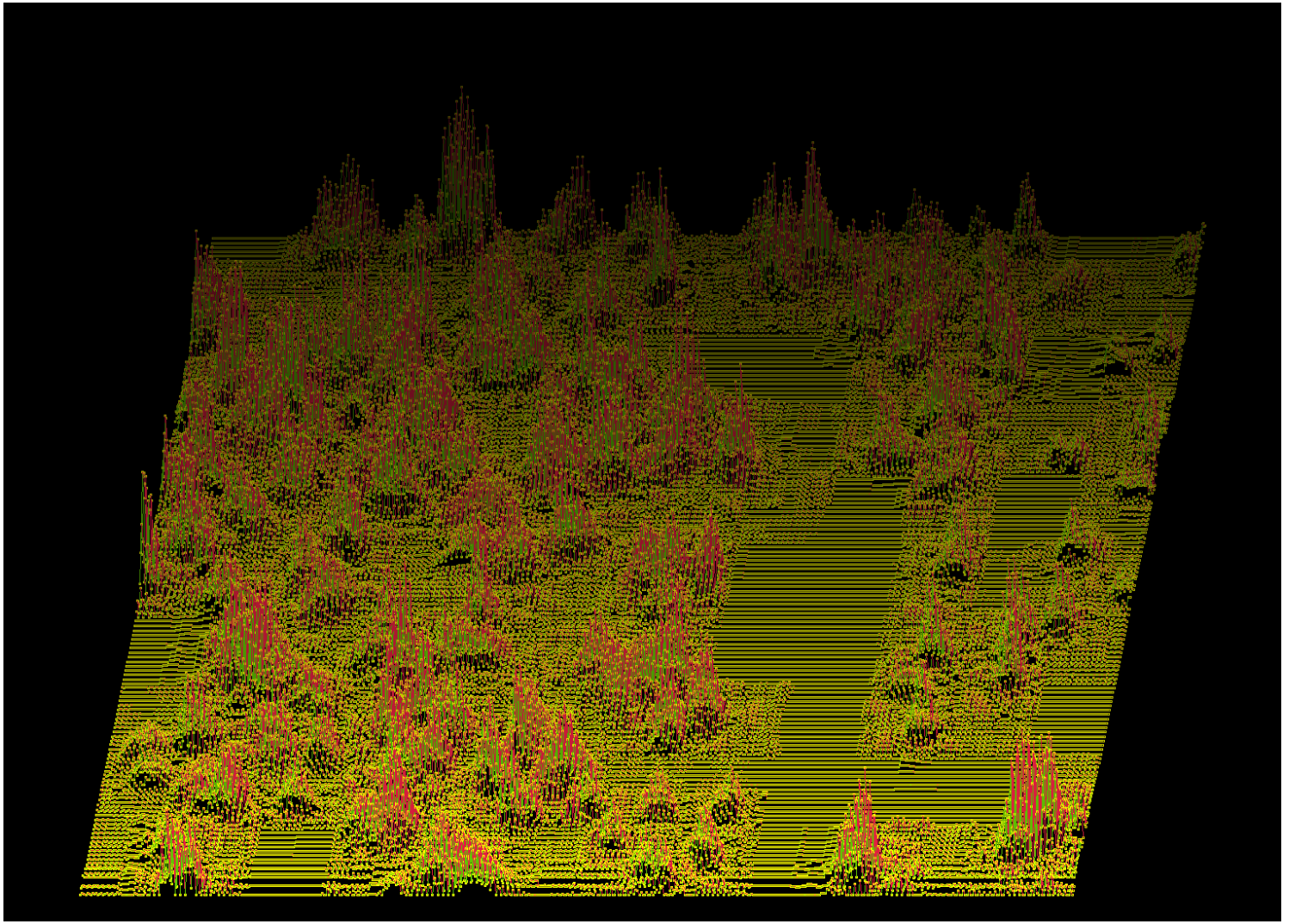
More image input

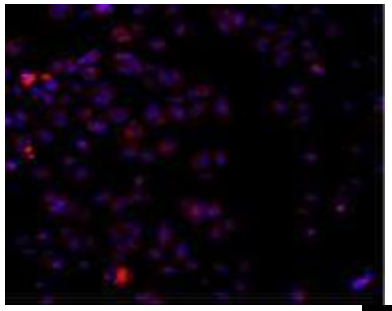










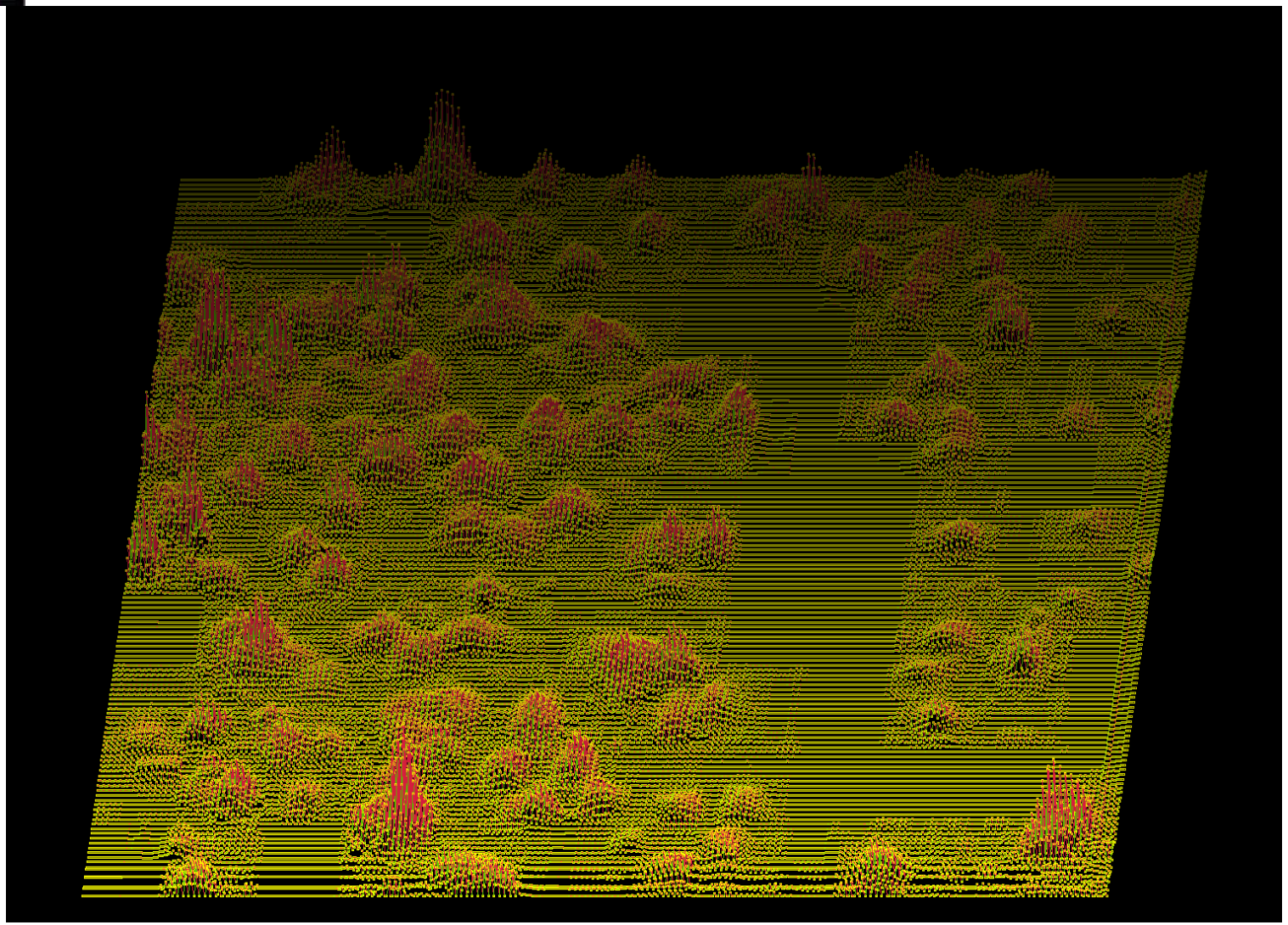
Autophagy 1

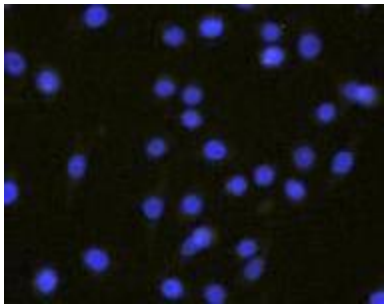
Differences between images can be visualized and quantified.



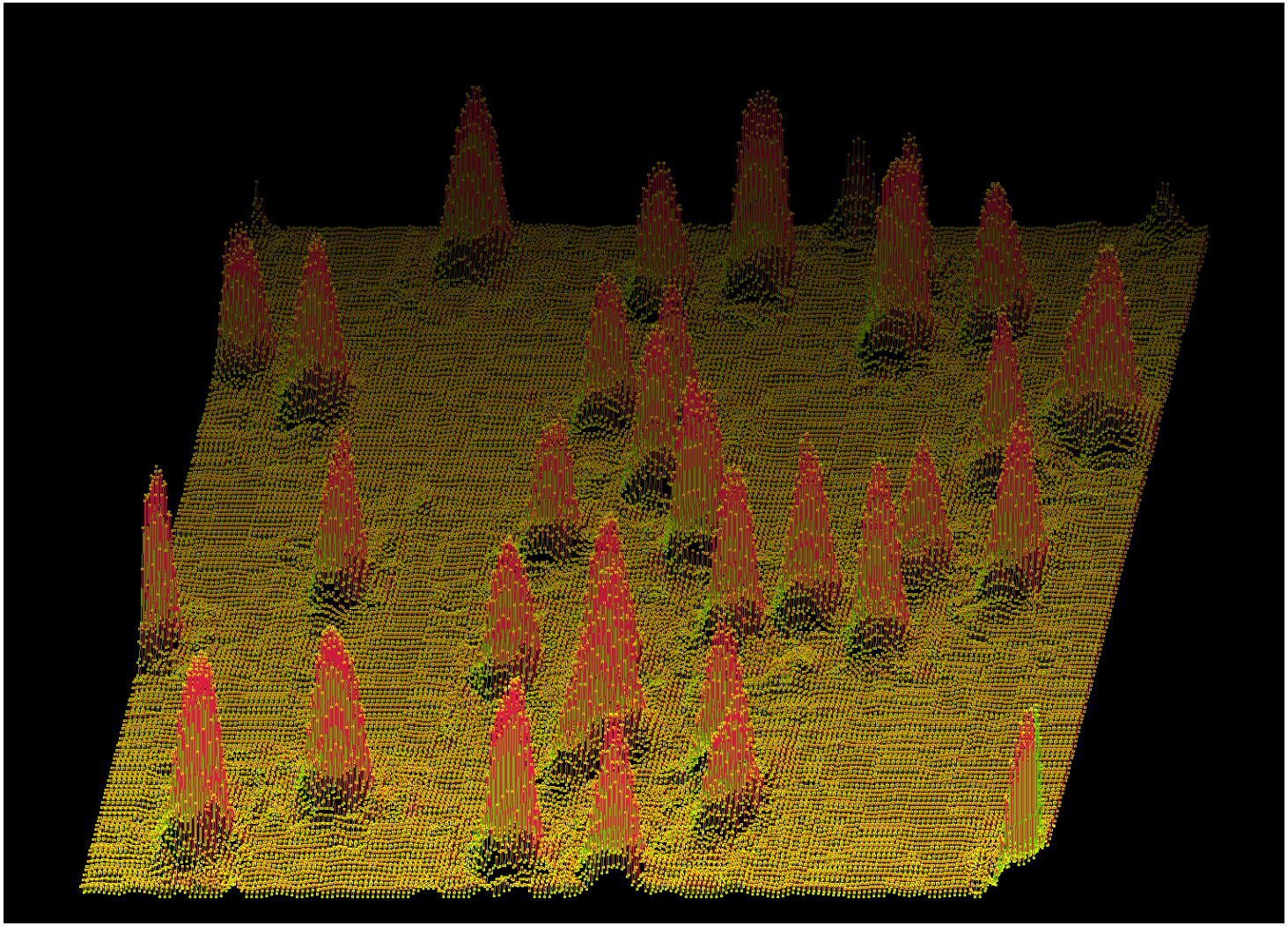


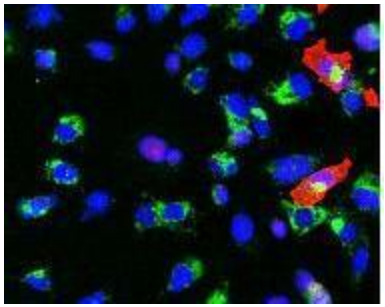
Autophagy 2



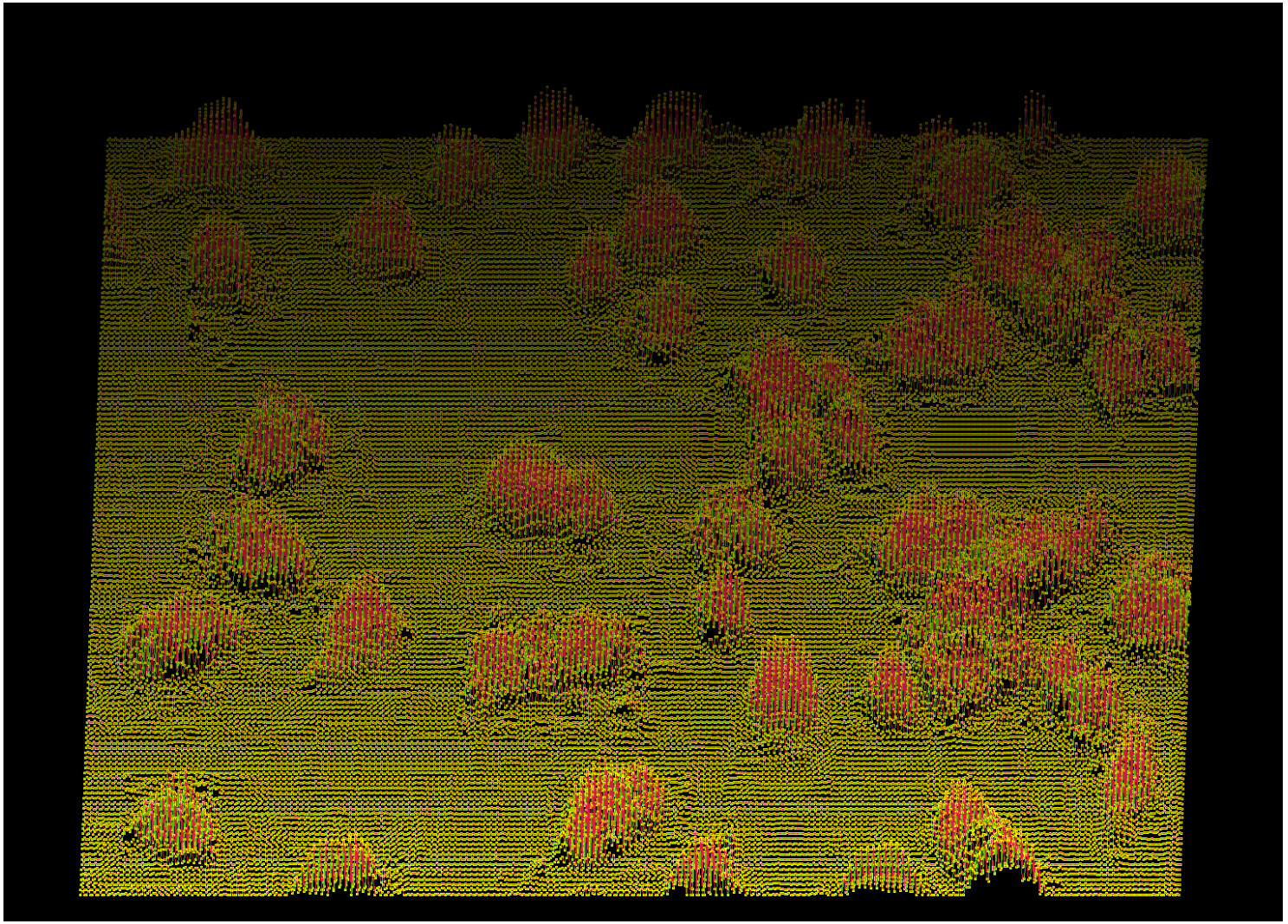


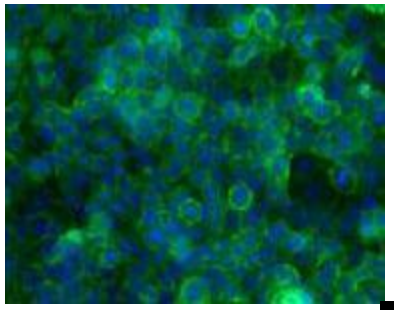
Dual Apoptosis 1



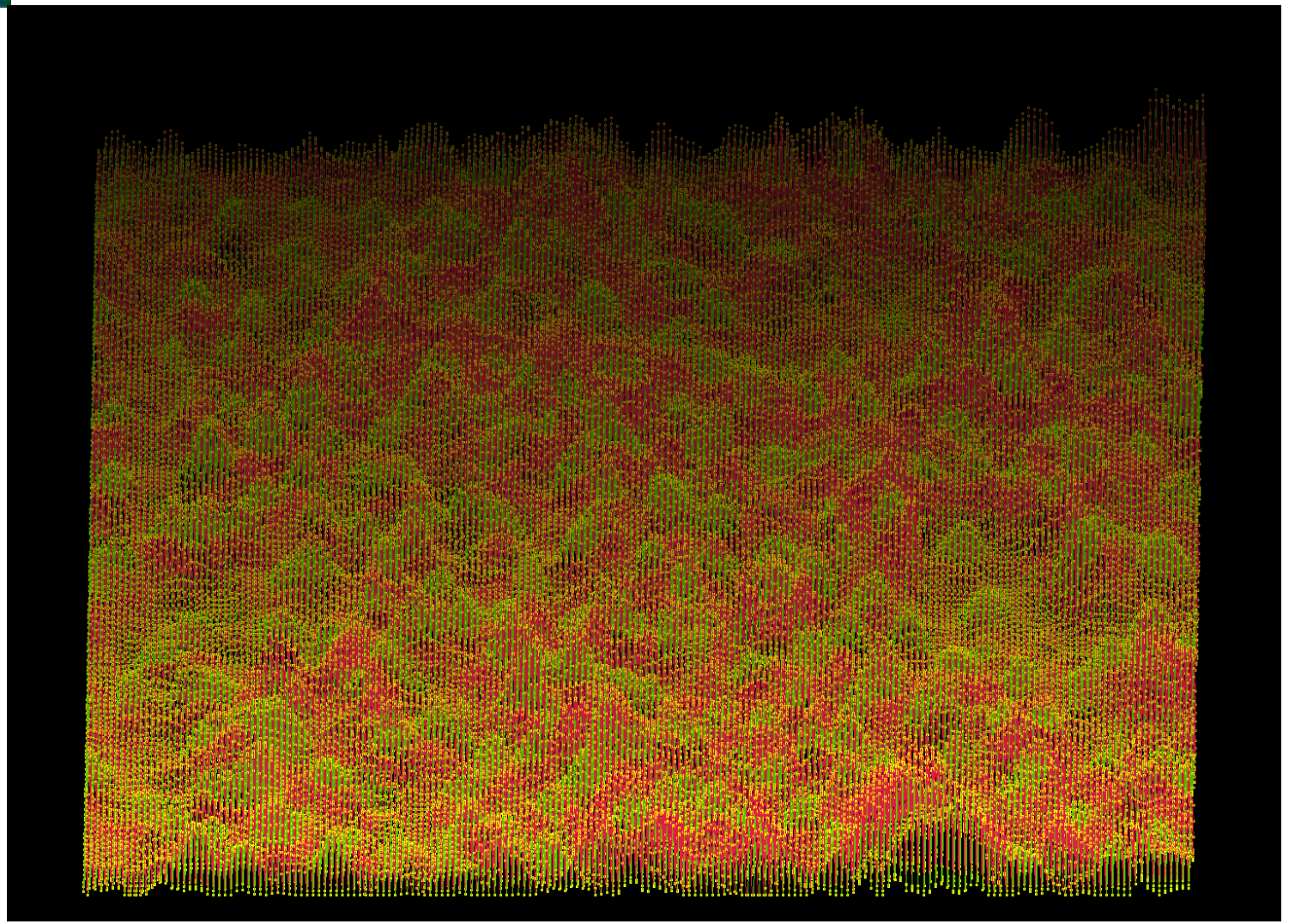


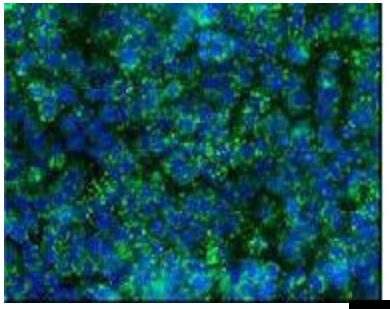
Dual Apoptosis 2



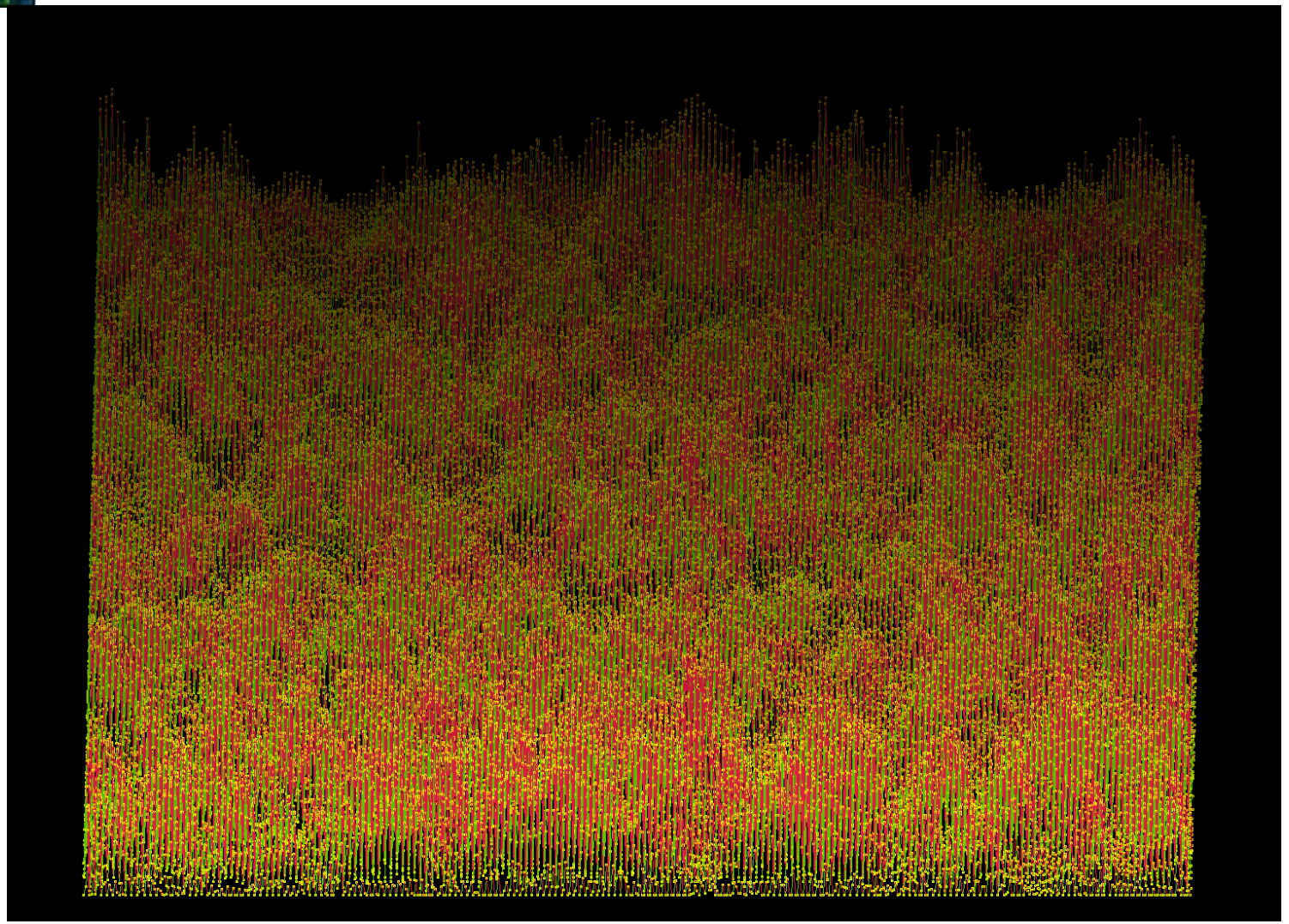


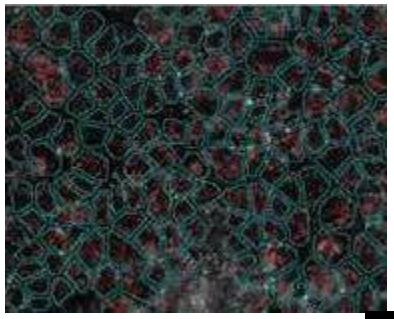
Internalisation 1





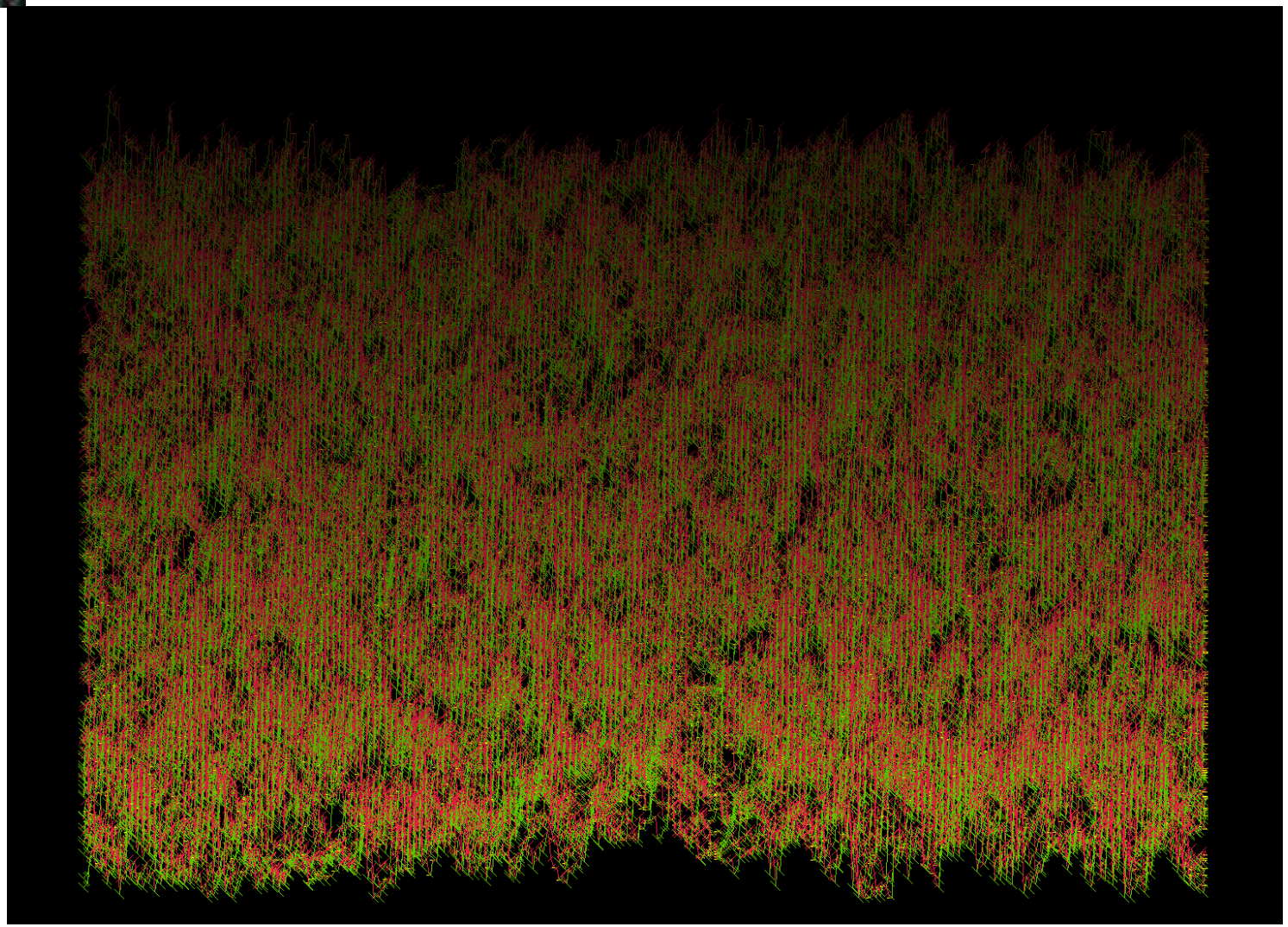
Internalisation 2

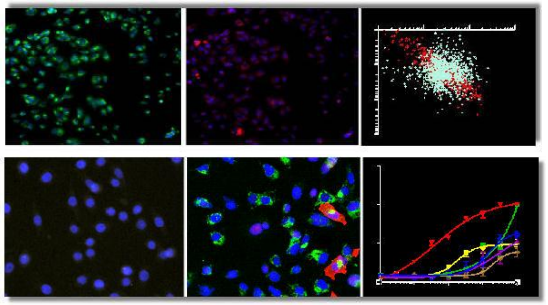


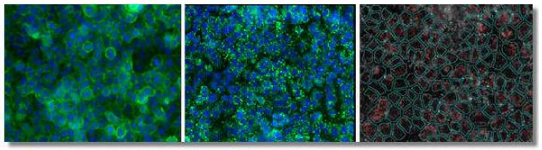


Internalisation 3

Differences between images can be visualized and quantified.







In Summary

Human Vision

- Visual 3D effects
  - Colour
  - Contrasts
- Machine Vision
  - Imaging technologies

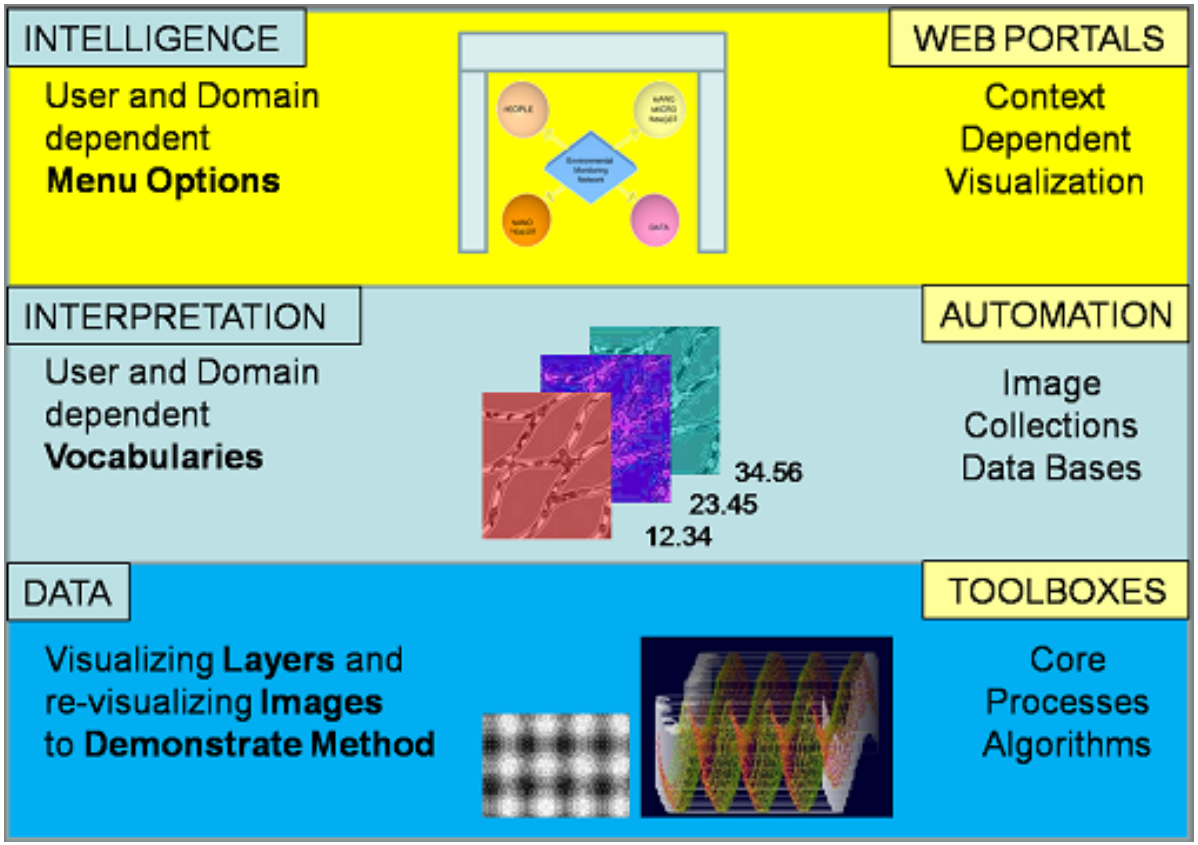
“3dM Software Vision”

- New 3D perspectives
- More visual details
- More metric accuracy
  - New image qualities
  - New qualitative quantifications

“3dM Image Processing”

- “Numerical meta data” for images as a whole
  - ➢ sorting, ranking, selecting according to criteria
- “Image metrics” for image components
  - ➢ comparing according to measures.

Proposal



Developing an 'expert portal' for analysing and processing clients' images

Human Analysis requires vocabulary for

- **describing** image contents.

Software Processing requires vocabulary for

- **quantifying** image contents.

Contact

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M: 07968 039 141