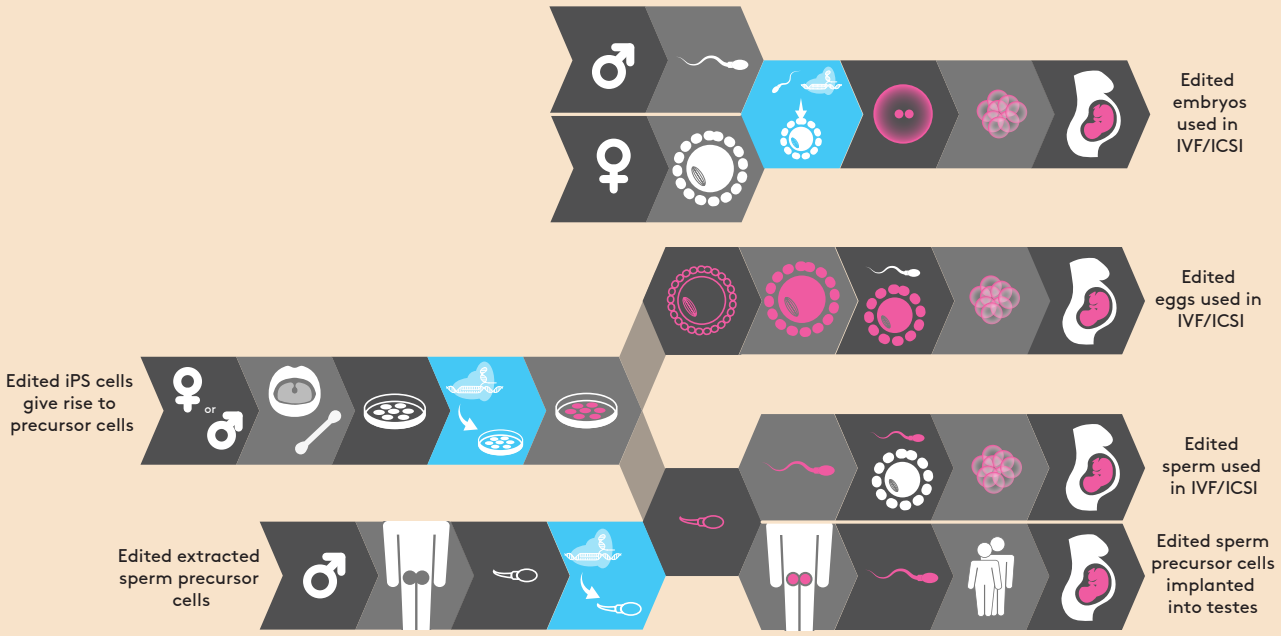
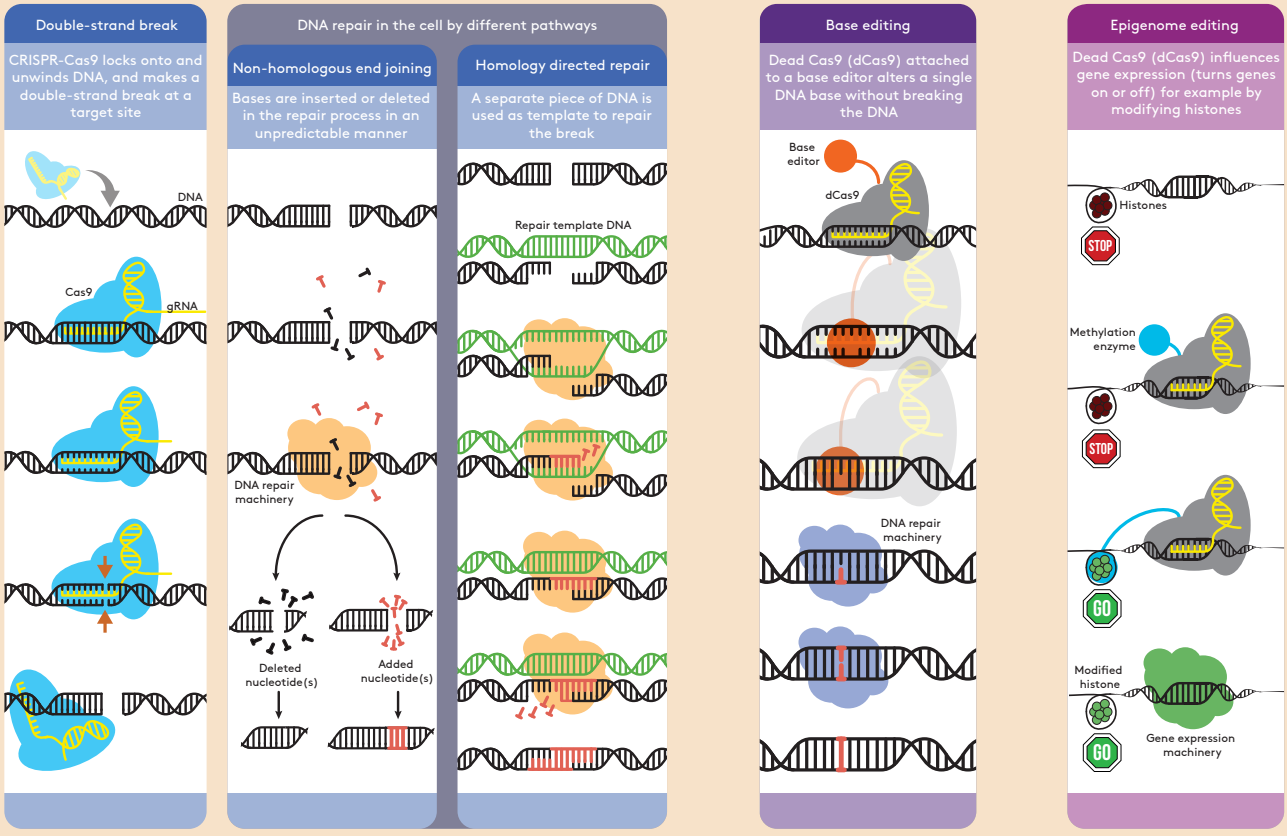
Claudia Stocker

## Strategies for genome editing in human reproduction




## Genome editing mechanisms




Infographics created for the Nuffield Council on Bioethics to accompany the scientific background section of the 2018 report Genome Editing and Human Reproduction.

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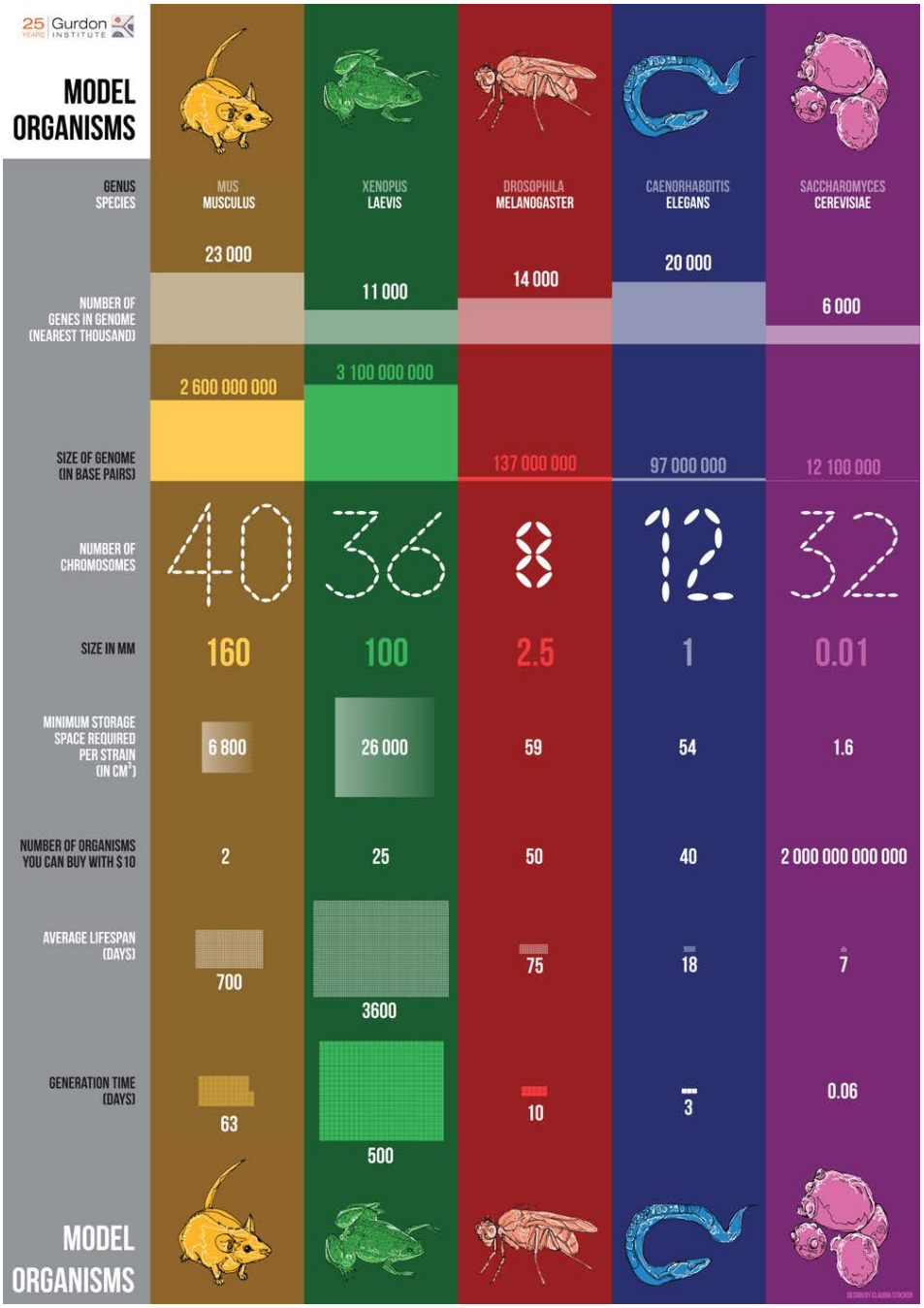


Infographic created to illustrate the difference between different model organisms commonly used in Genetics.

The original infographic was shortlisted in the infographics category of the International Science and Technology visualisation challenge 2013.

The infographic was subsequently reworked for a series of nine different mugs featuring infographics on the back and an image of the organism on the front.

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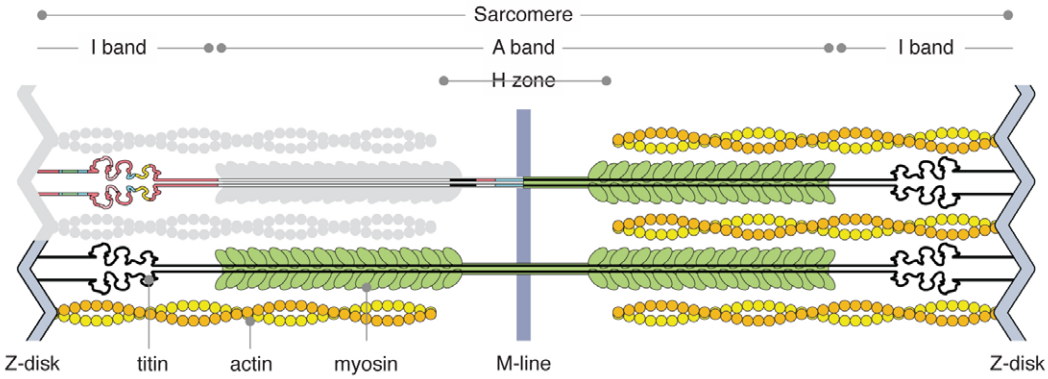
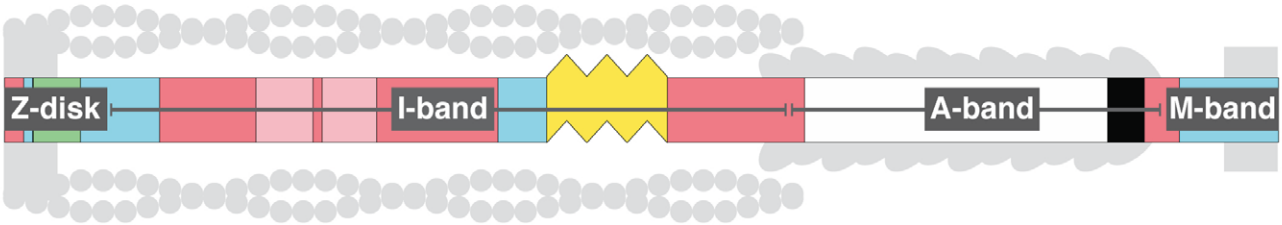
## A. Sarcomere structure




## B. Domains within titin protein

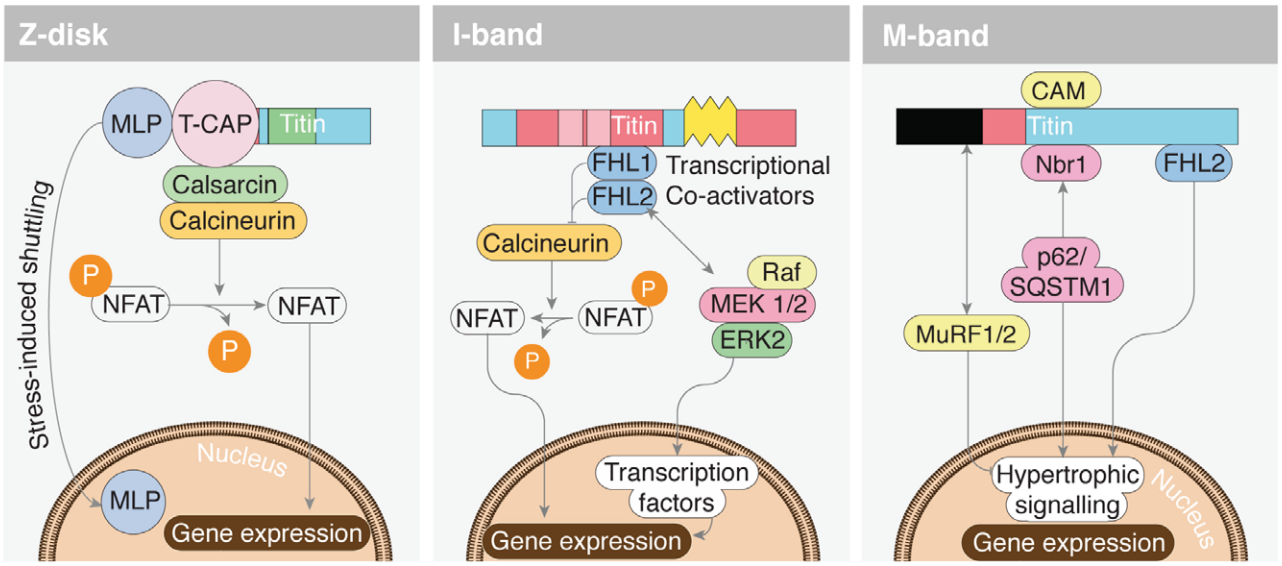



- Unique sequences
- Immunoglobulin-like domain
- Z-repeats
- Alternative splicing
- PEVK-rich sequence
- Fibronectin type 3-like domain
- Titin kinase domain

## C. Ligands to Titin protein domains

| Z-disk | I-band | A-band | M-band | |
|---|---|---|---|---|
| Telethonin | Actin | MyHC | MURFs (MURF1, MURF2) | Myomesin |
| Small Ankyrin-1 | Calpain-1 | MyBP-C | Calmcdulin | Bin1 |
| γ-Filamin | MARPs (CARP, DARP, Ankrd2) | | Nbr1 | Calpain-3 |
| Nebulin | Calpain-3 | | FHL2 | Obscurin |
| α-Actinin | | | | |
| Obscurin | | | | |

## D. Interactions between Titin protein domains




Graphics created for researchers at the Karolinska institute to accompany a review paper on the protein titin, found in the sarcomere.

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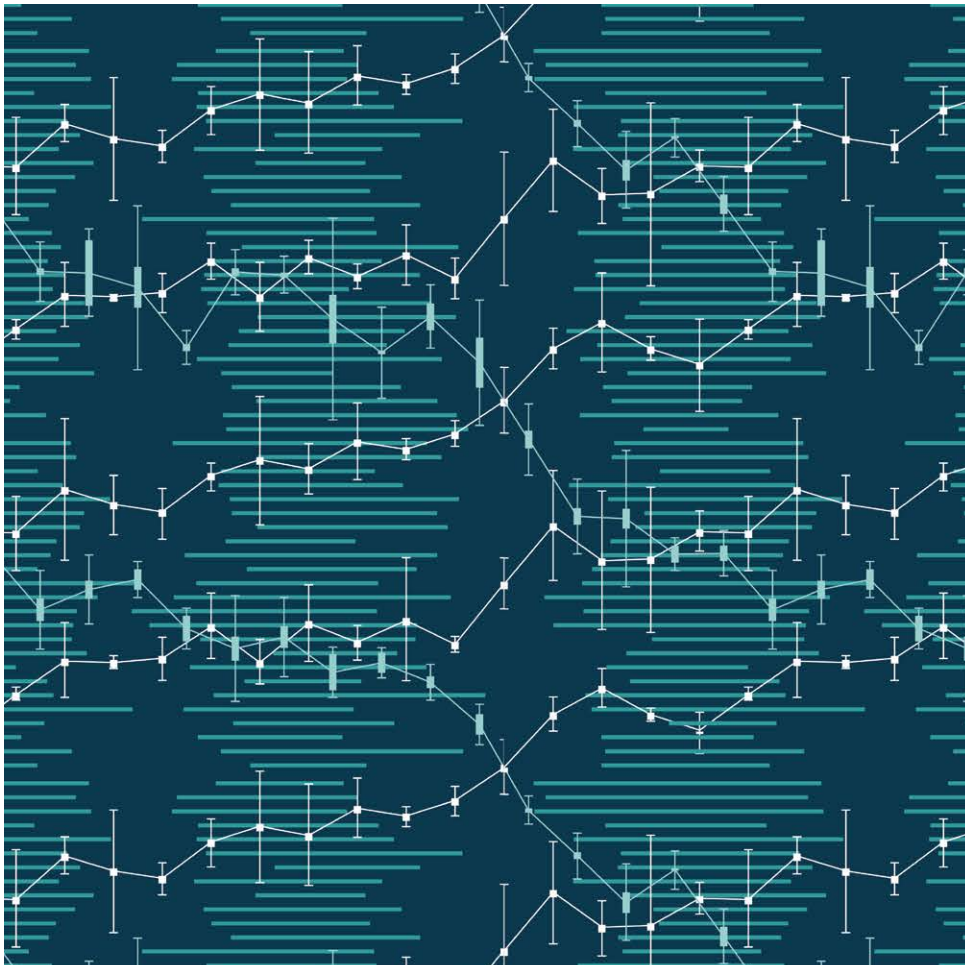

Graphics created for the Faculty of Pharmaceutical Medicine for their 2020 conference.

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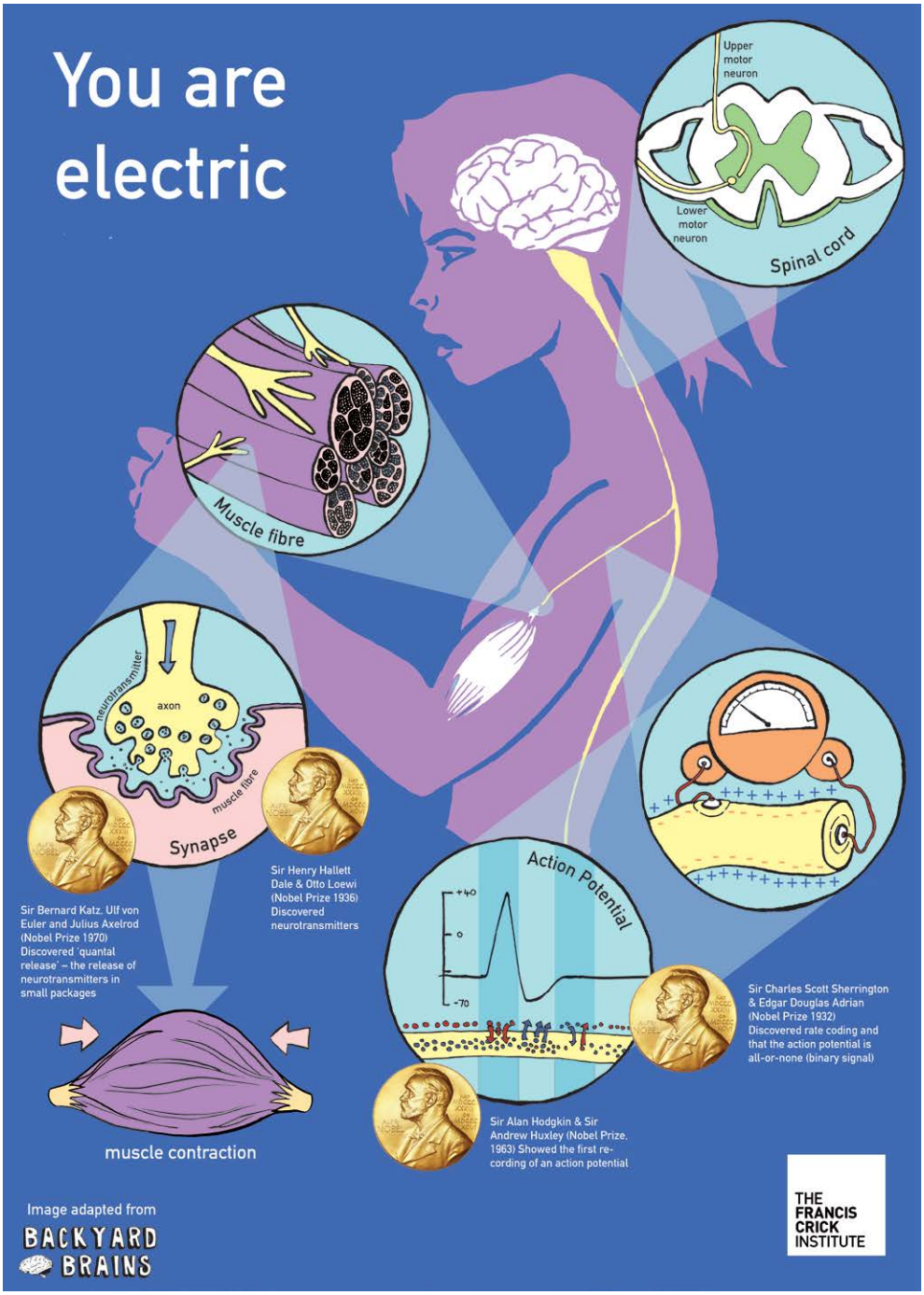


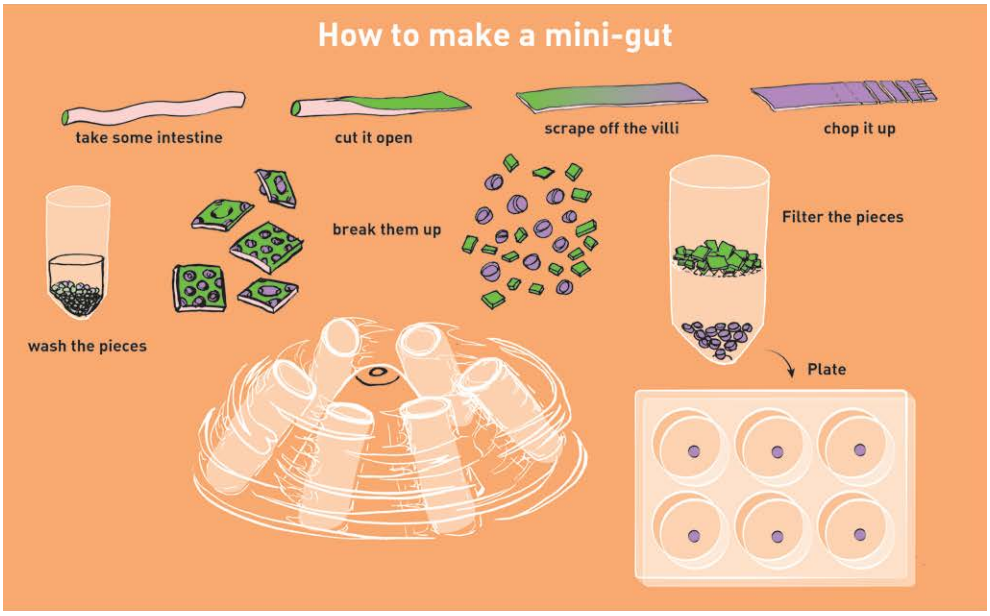


Graphics created for the Francis Crick Institute For their inaugural Crick Late event. The graphics were created for specific research labs to sit behind activities they were running and explain some of the science underlying them.

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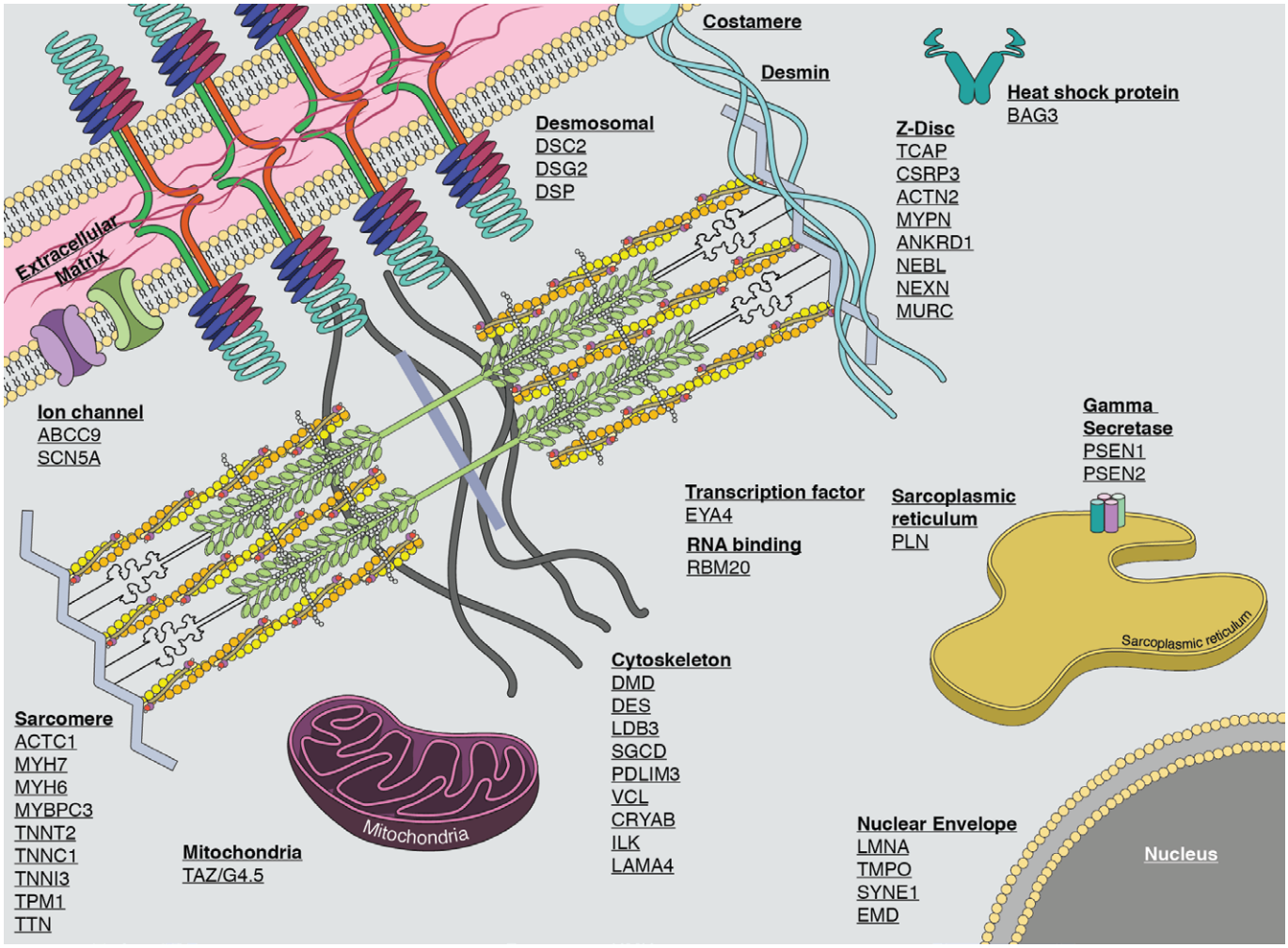


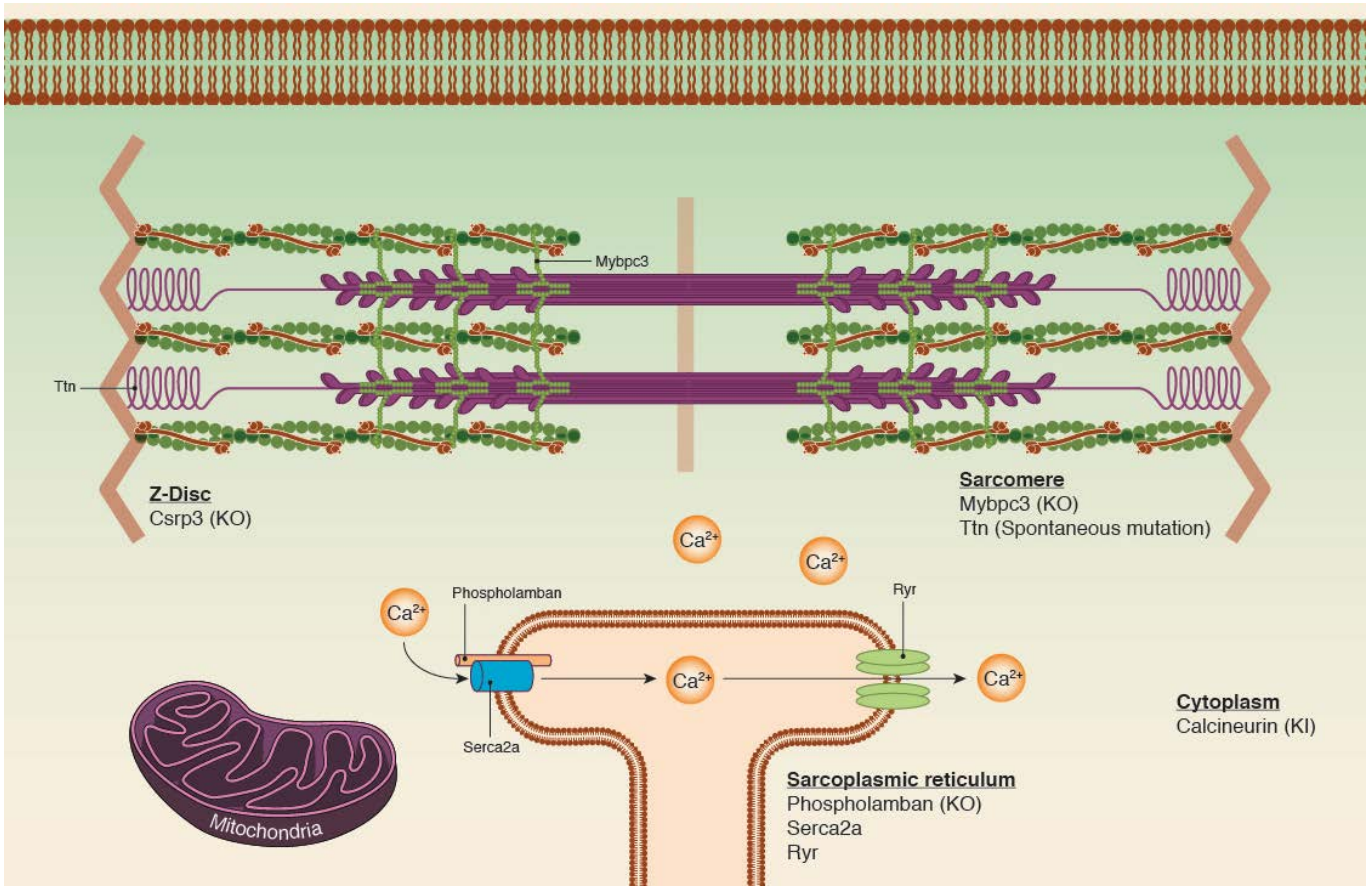


Graphics created for researchers at the Karolinska institute to accompany research papers in Cardiomyopathy.

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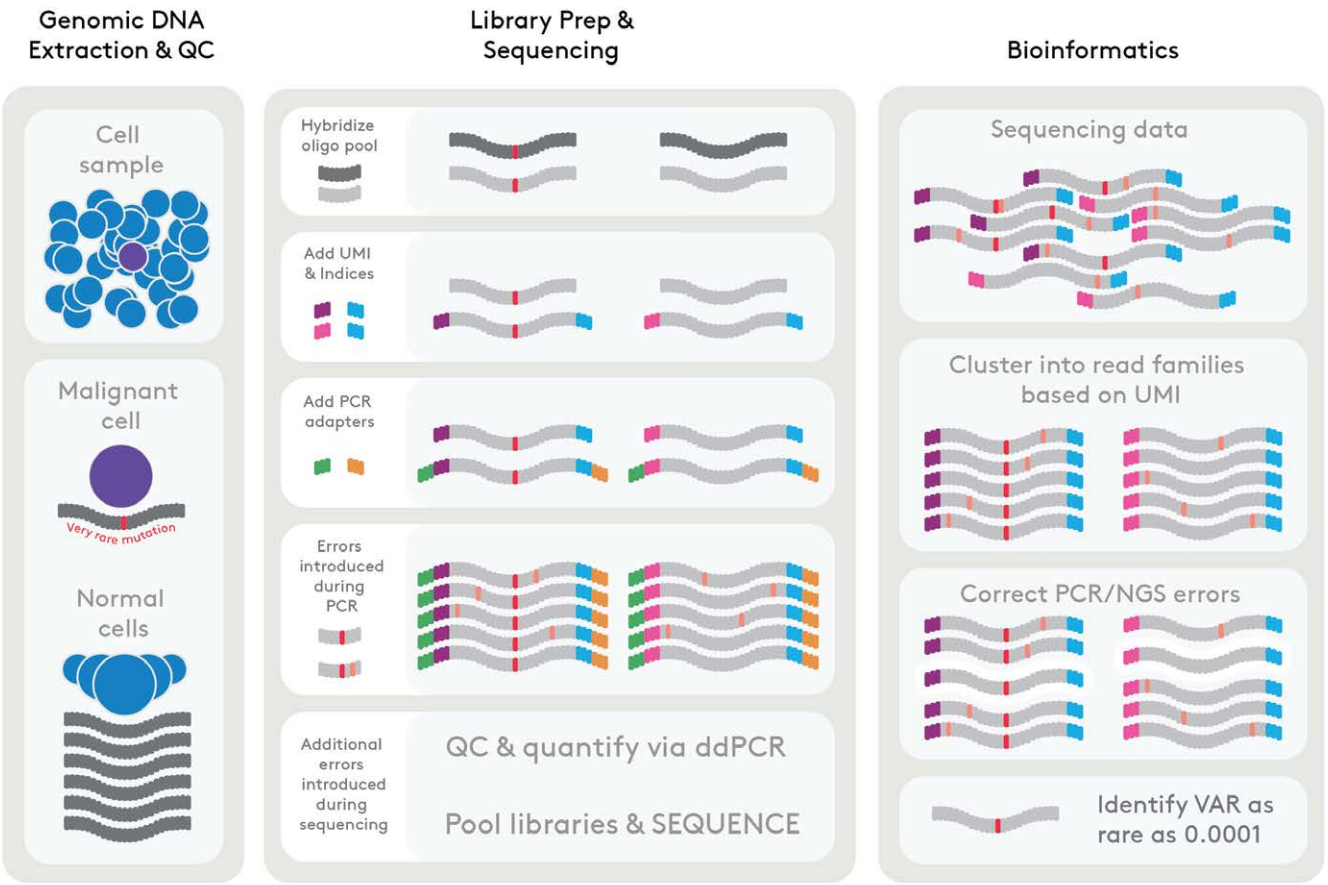
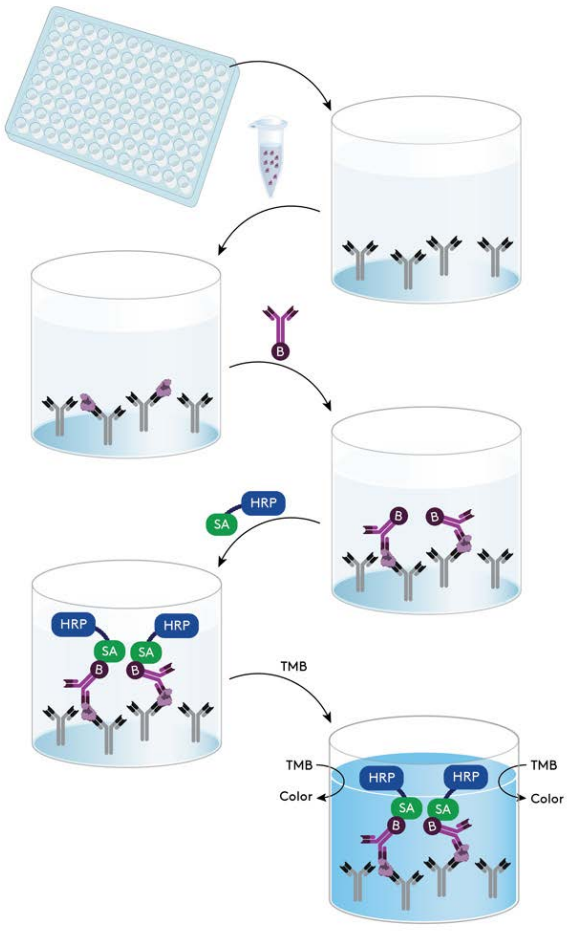



Graphic created for Canopy Biosciences to illustrate their Nanoseq technology. This technology allows for ultra-rare mutations to be detected in a sample of cells, and contains verification steps to ensure that any mutations flagged are genuine rather than the results of noisy sequencing.




Graphic created for Canopy Biosciences to illustrate their host cell protein assay.

The technology tests samples of human proteins created by host cells for impurities. It does this by using antibodies that target proteins present in host cells that should not be present in final samples. Kits are available for various types of host cells.

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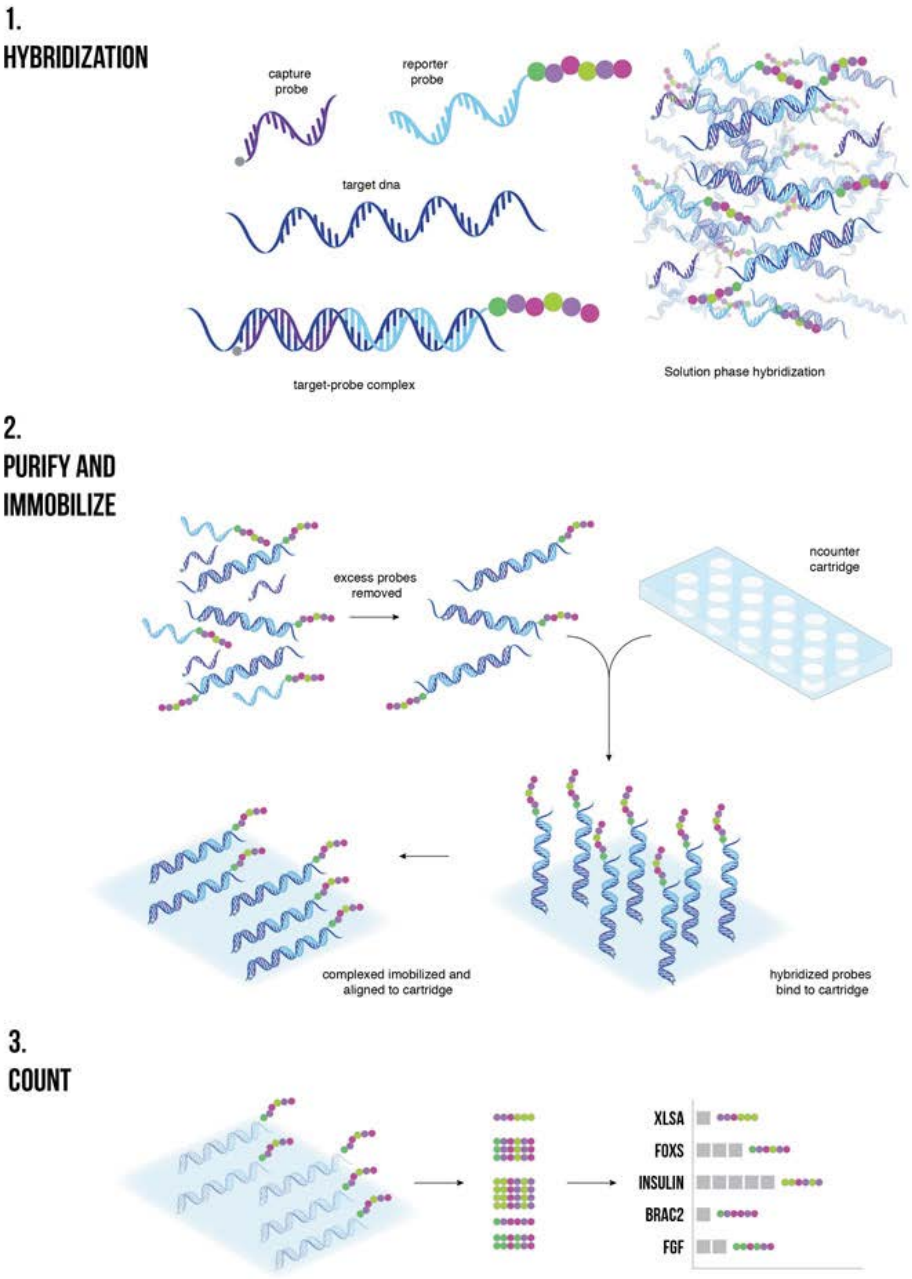
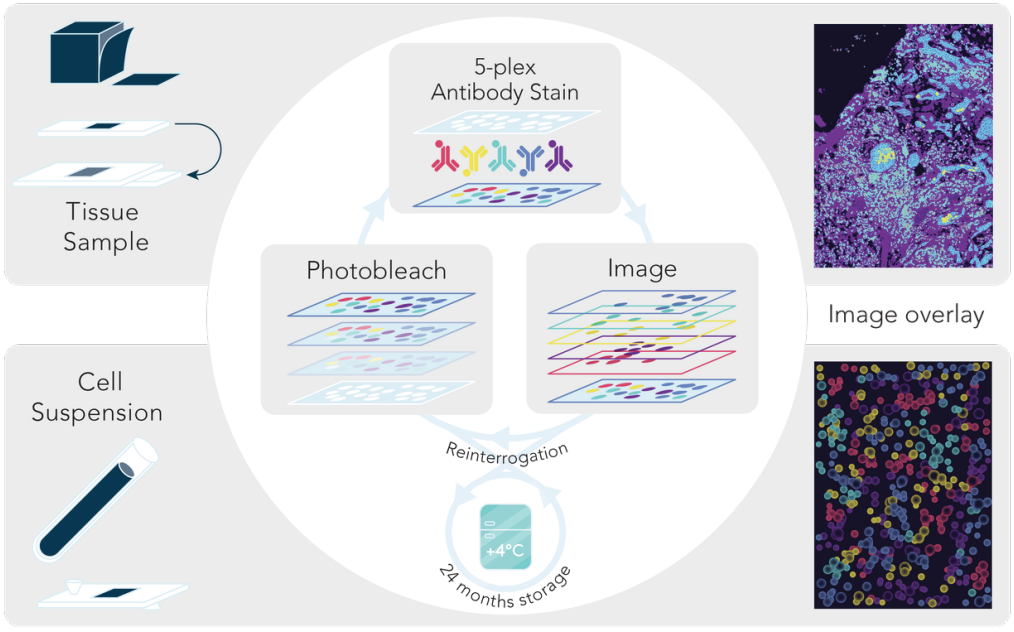



Graphic created for Canopy Biosciences to illustrate their Nanostrings DNA sequence quantification technology.




Graphic created for Canopy Biosciences to illustrate their Zellakrafwerk imaging technology.

The technology allows samples to be imaged multiple times with five different antibody fluorophores per image.

This allows cells to be finely sorted and counted according to staining pattern.

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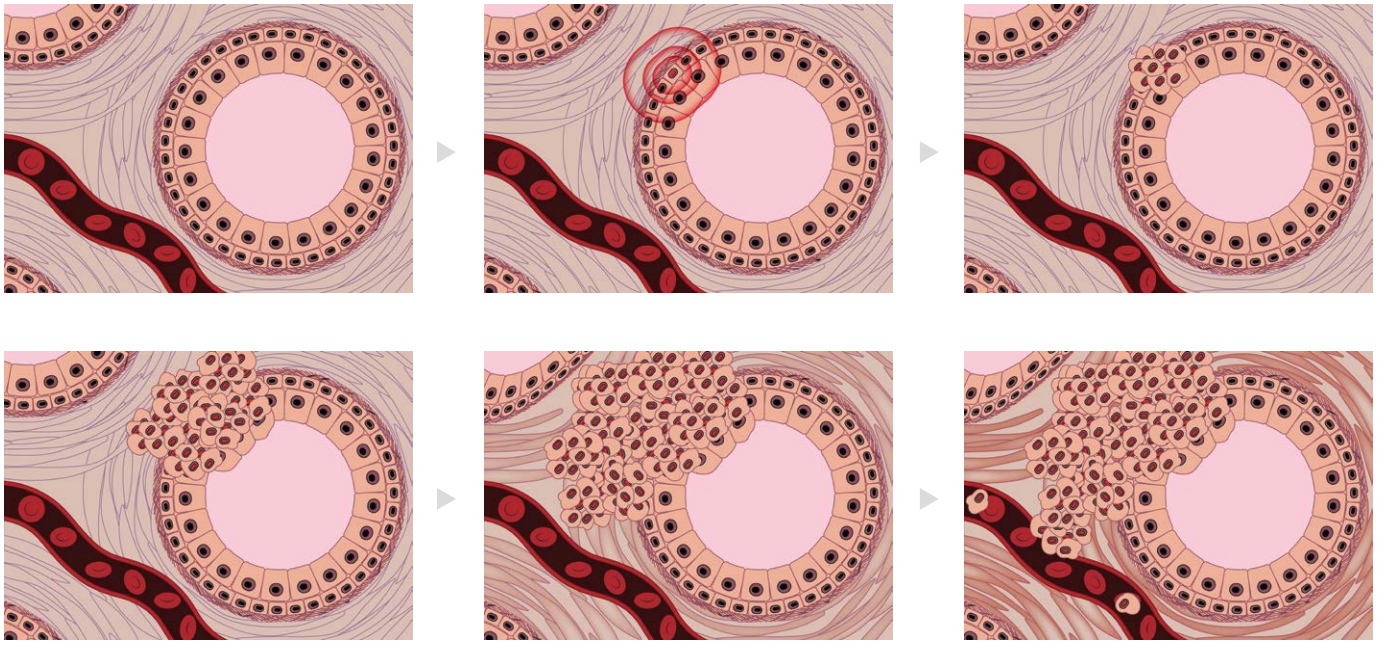
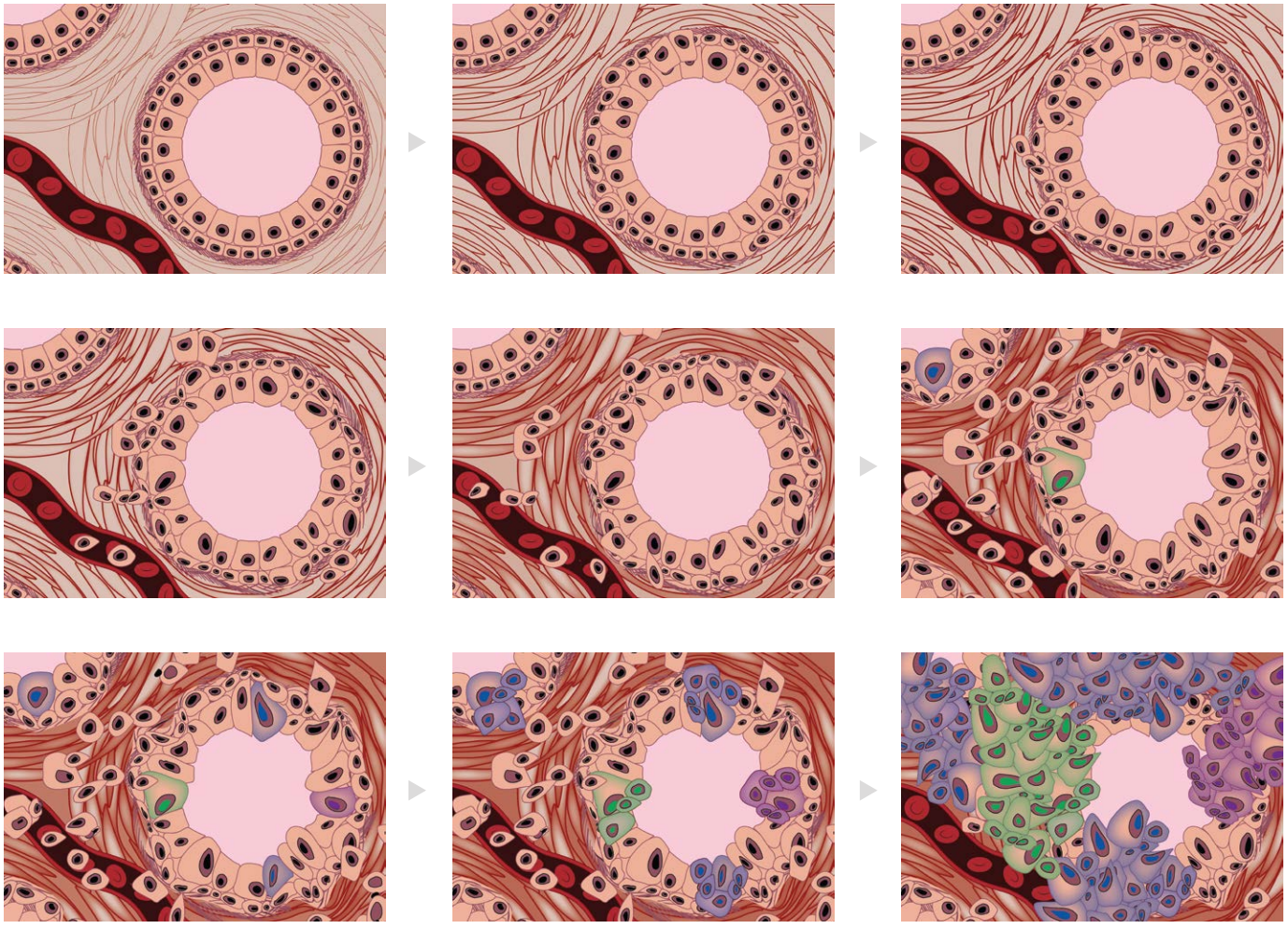


Traditional pathway of cancer development



Environmental pathway of cancer development

Series of slides created for Bernhard Strauss at the Gurdon Institute, Cambridge.
The slides were designed to be shown in quick succession in powerpoint, and were also use to create GIF animations.