Movie courtesy of Frank Gertler, MIT

High-Level View of Human Development

- Fibroblast (skin)
- Keratinocytes
- Neurons
- Red Blood Cell

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Destinations for Newly Translated Proteins

Modification of Proteins

Aequorea victoria

Cells expressing green fluorescent protein (GFP)

Cytoplasm: light green
Nucleus: strong staining - protein predominantly localized there

ER proteins in sorting process

Mitochondria

Protein localization is dynamic

Cytoplasm--------------> Nuclear

“Signal”