

Acetaminophen Metabolism and Hepatotoxicity

Mood Boards

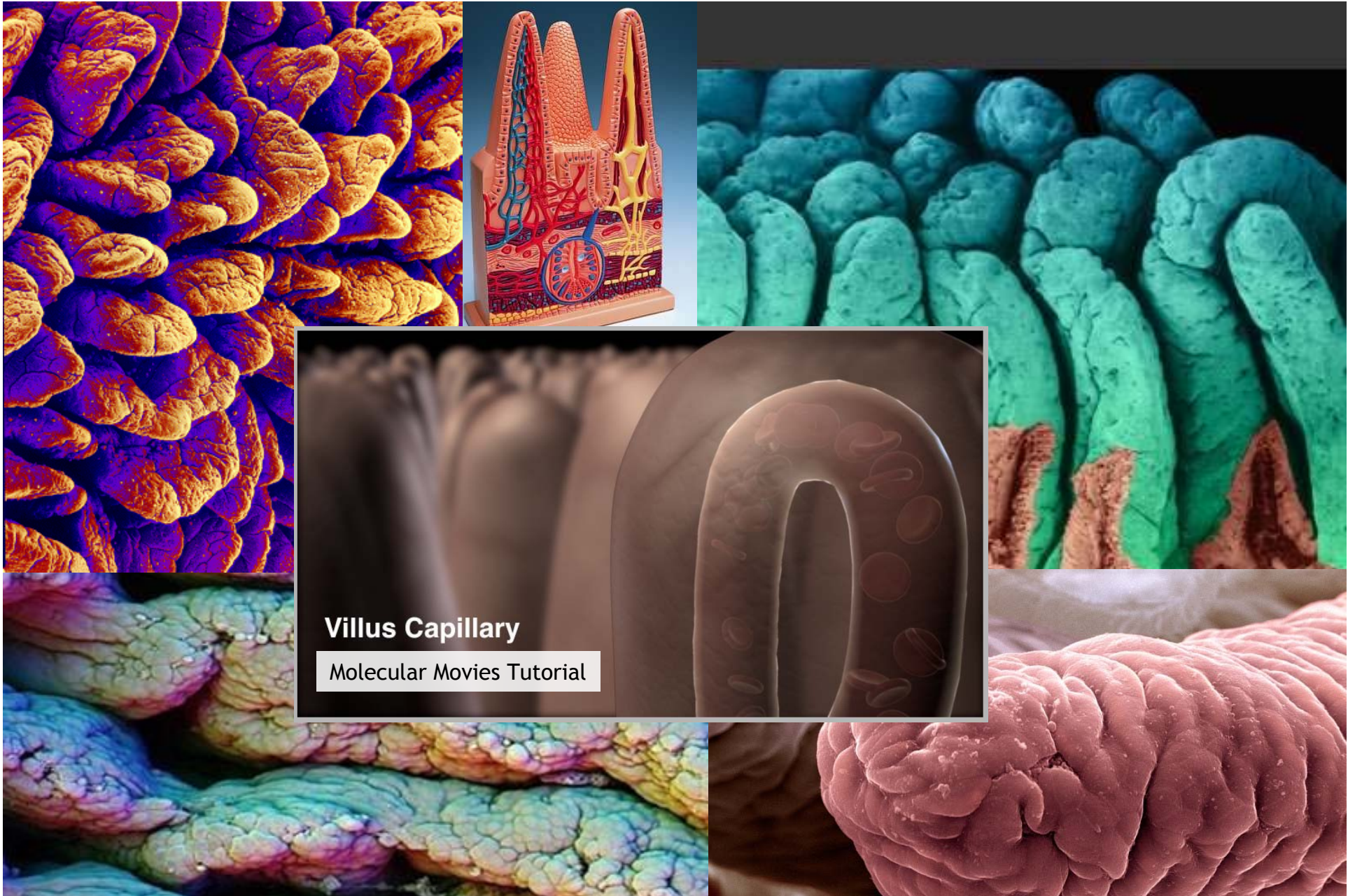
Julia Klein
May 5th 2010



APAP Tablets

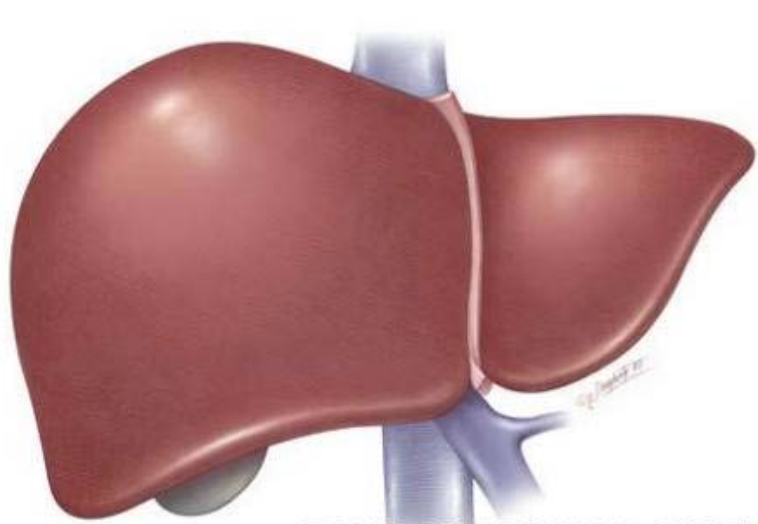
The model of the APAP bottle will resemble a bottle of an over the counter product. The modeled tablets will have a chalky white surface.

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GI Tract Villi

The scene with the stomach will feature an overlay of a villus capillary showing the site of absorption. A tutorial will be referenced from <http://www.molecularmovies.com/learning/index.html>



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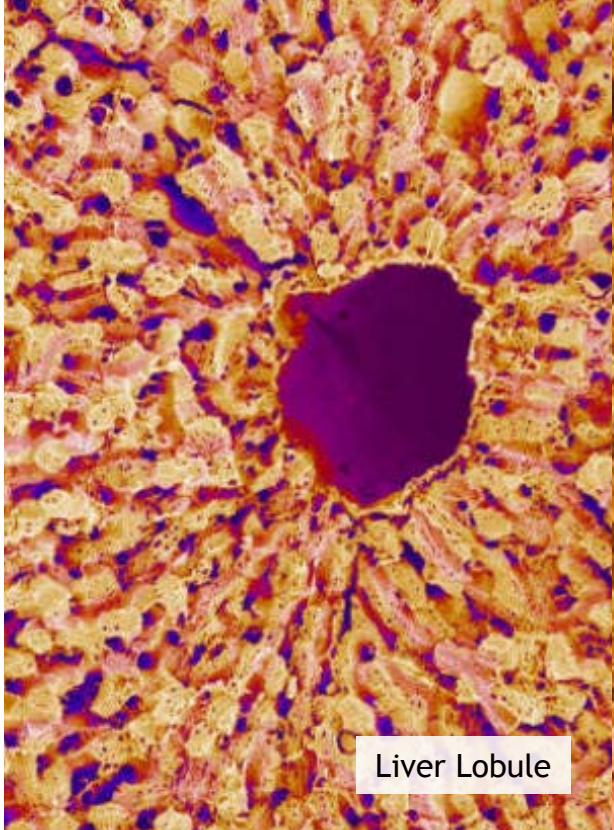
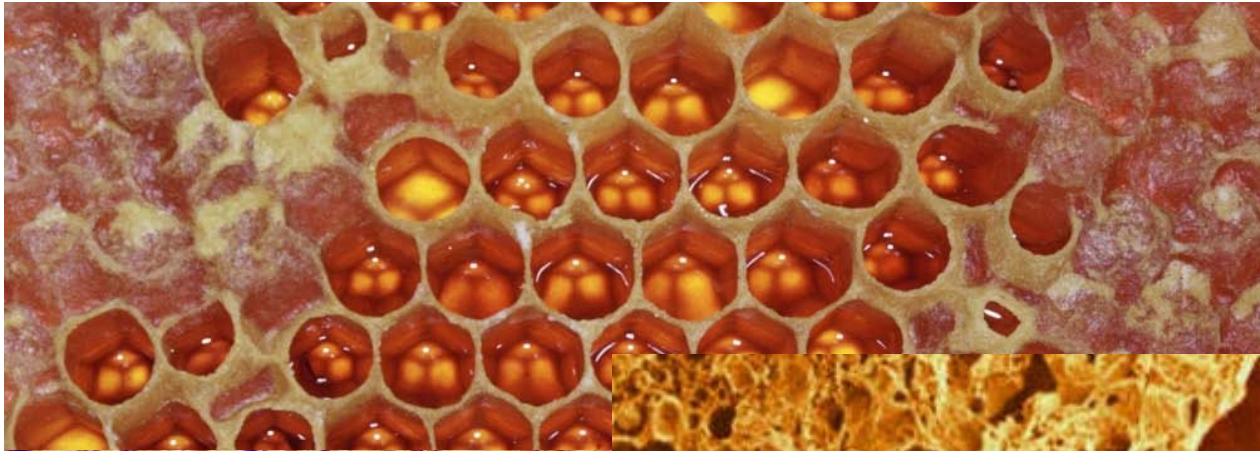


Liver

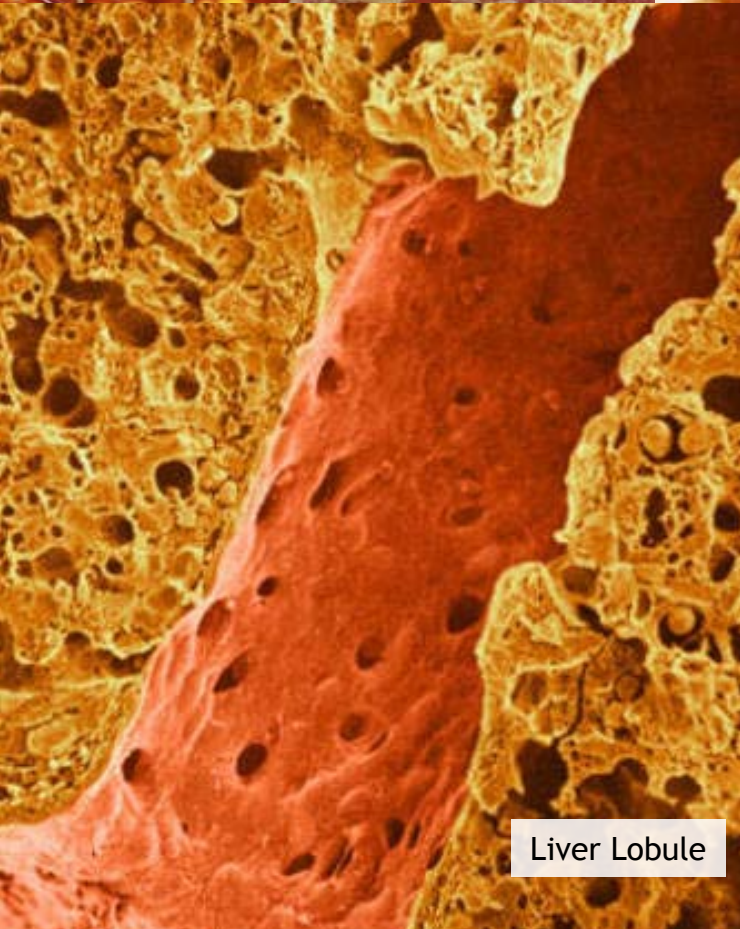
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The model of the liver will be textured in a illustrative style. The stomach (not shown) will also match this style of representation.



Liver Lobule



Liver Lobule

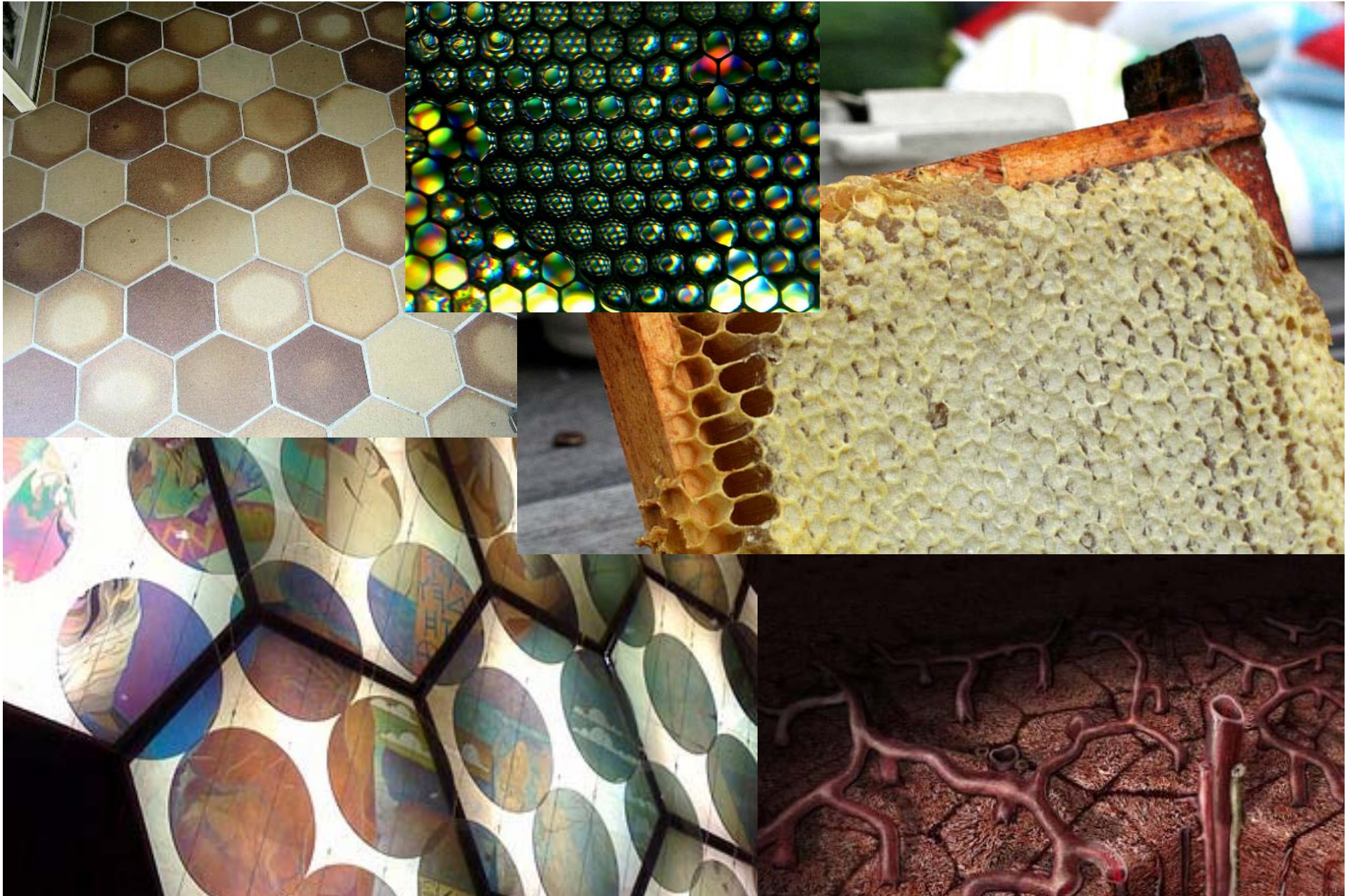


Hepatocytes



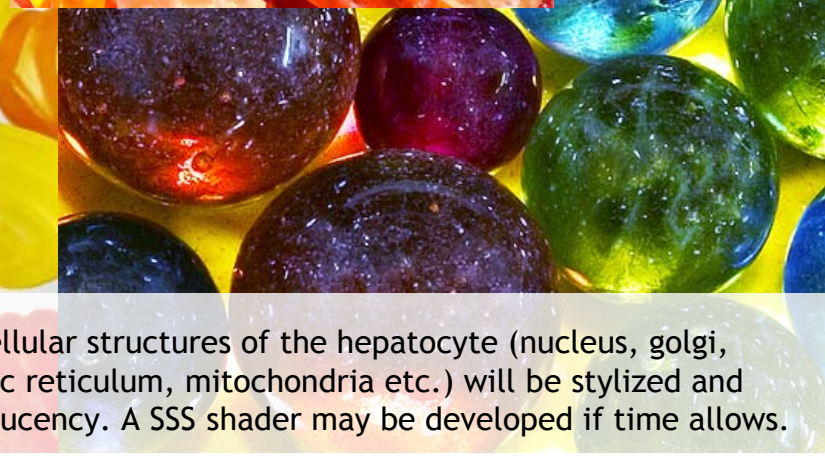
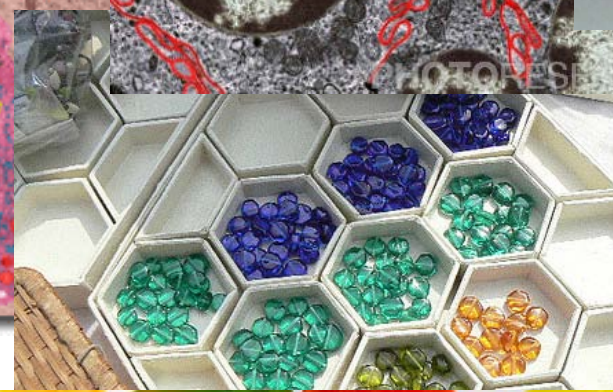
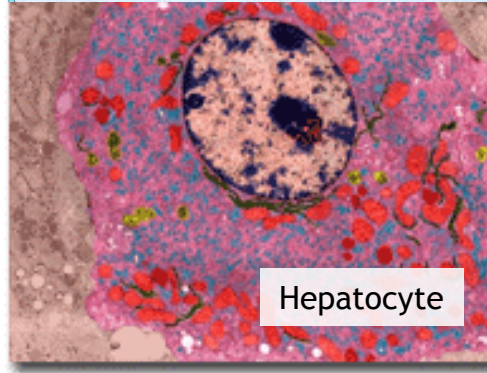
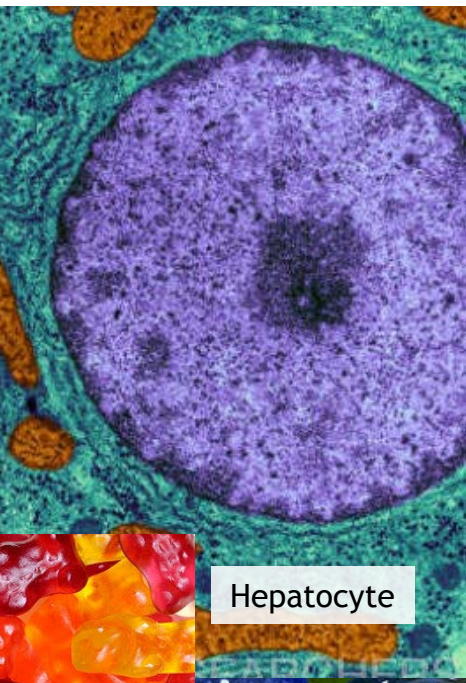
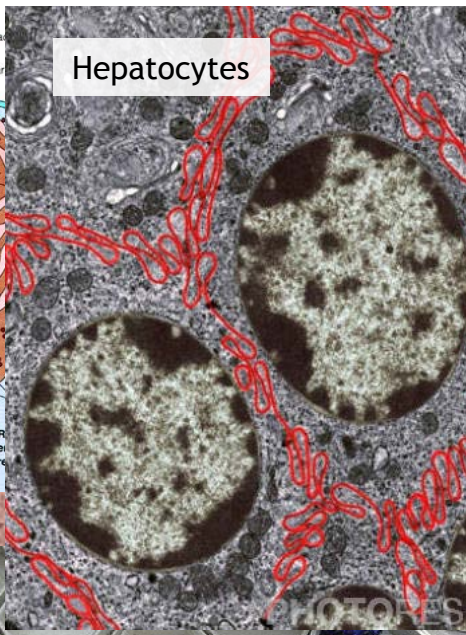
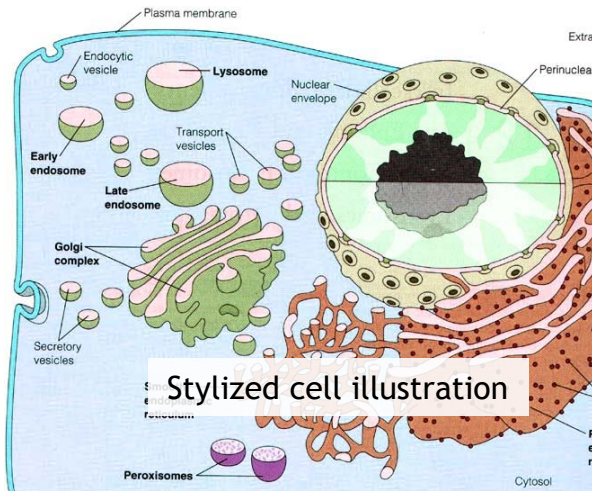
Hepatocytes - Healthy Cells

The interior of the liver (liver lobule) will be healthy and brightly colored/lit. Color and surface texture will indicate healthy cells. These bright colors will also be used for the single hepatocyte.



Hepatocytes - Damaged Cells

The interior of the liver (liver lobule) will be damaged and dimly colored/lit. Color and surface texture will indicate damaged cells. These colors will also be used for the damaged hepatocyte.



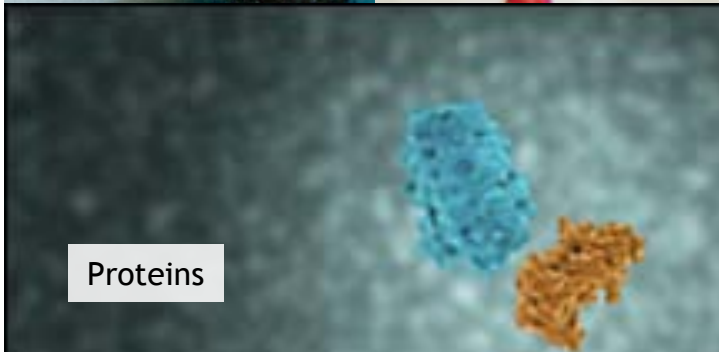
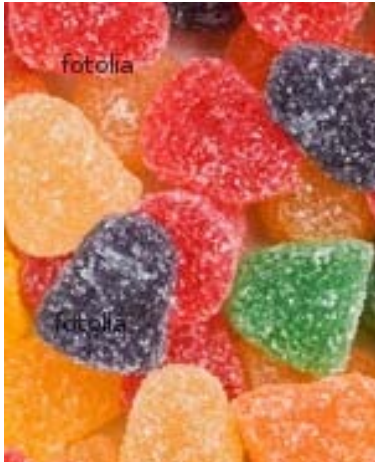
Intracellular Structures

The intracellular structures of the hepatocyte (nucleus, golgi, endoplasmic reticulum, mitochondria etc.) will be stylized and show translucency. A SSS shader may be developed if time allows.



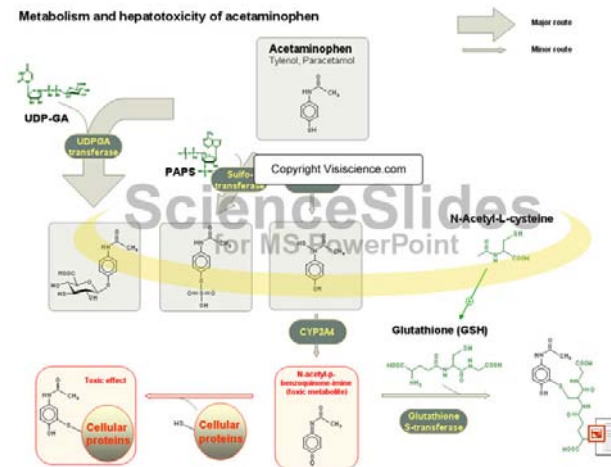
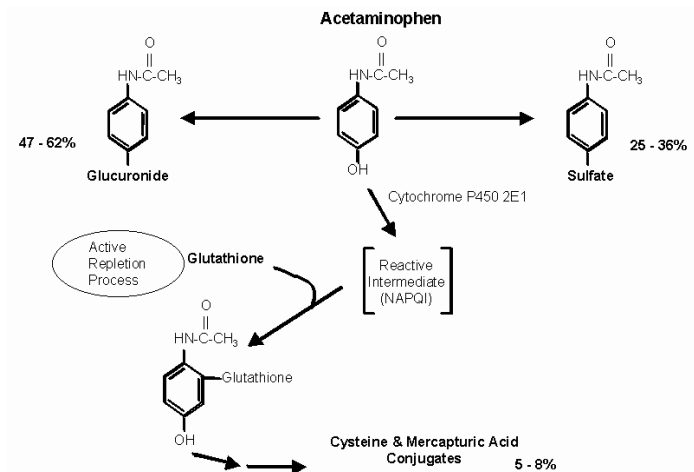
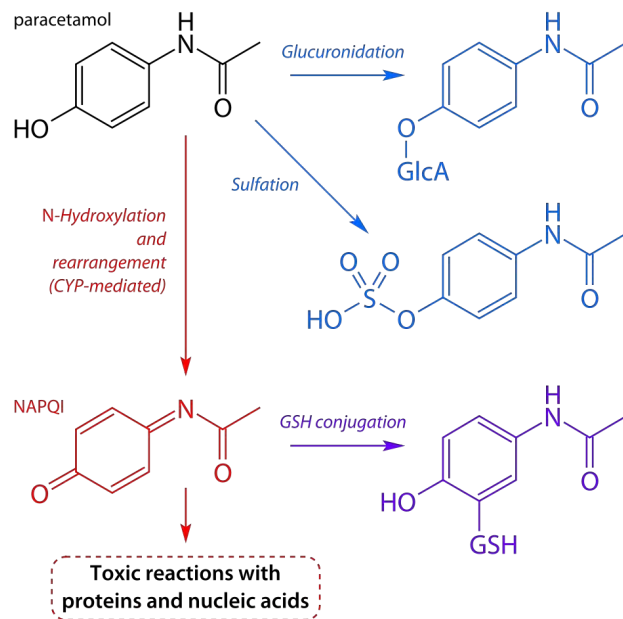
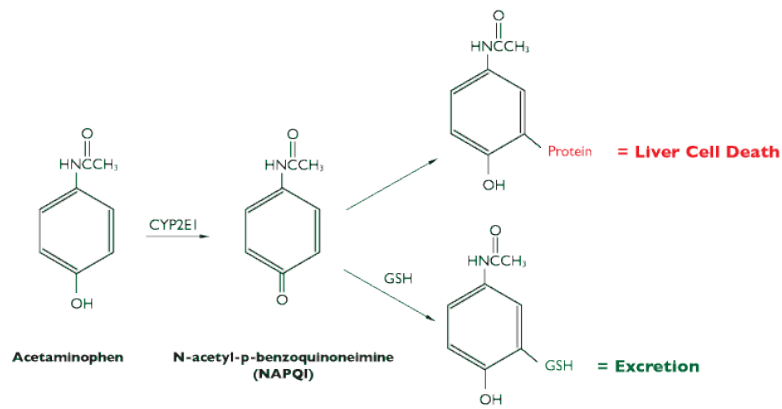
APAP/Metabolite Molecules

The small molecules will have a chalky surface that resembles the initial APAP tablet. The various metabolites will have distinct colors to indicate different types.



Protein Structures

The protein enzymes will have a bumpy surface. The bright colors and irregular surfaces of these candies will be used as inspiration.



APAP Metabolic Pathways

These are some of the various metabolic pathways that will be shown in the animation. The animation will present them much more dynamically as opposed to these static illustrations.