

10.8 Peroxisome and Glyoxysome

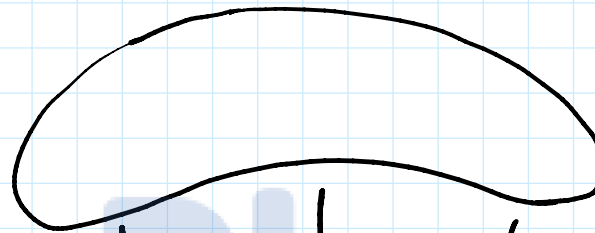
Peroxisome and Glyoxysome

→ Cytoplasmic Organelles

- Single membranous
- Vesicular structures
- Micro bodies

• Peroxisome

- Liver and Kidney
- 70-100/cell



Lysosomes
(Suicidal bags)
Only in Animal

Peroxisome
Animal/Plant

Glyoxisomes → Lipid Rich Seeds ✓
→ Lipid Poor Seeds ✗
(Immature Peroxisome)
Only in Plants

(0.6 - 0.7 μm)
BTB*

0.5 μm

Hydrolytic
• Proteases
• Phosphatase
• Amylases
• Lipases
• Nucleases

(P) → Peroxidase

(G) → Glycolic Acid
oxidase

(C) → Catalase

(G) → Glycolic acid oxidase

(C) → Catalase

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• Breakdown of products

- Formation and dissoadation H_2O_2
- Detoxification of Alcohol

• Lipid metabolism

Fatty Acids → Carbs.
(Glyoxylate cycle)

→ Plant cell → Photorespiration

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