

degradation inhibitor showed that our results were in line with the previously reported studies.

Finally, the current work might suggest some future work such as:

- Elucidate the mechanisms by which the insulin degraded in the hepatocytes.
- Define and measure the degraded components of insulin.
- Examine other different flow rates on insulin perfusion into liver and clarify its influence on insulin metabolism.
- Study how to inhibit insulin degradation inside the liver by tagging insulin with other amino acids.