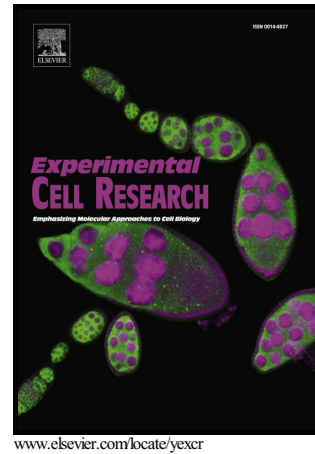


## Author's Accepted Manuscript

The viability of primary hepatocytes is maintained under a low cysteine-glutathione redox state with a marked elevation in ophthalmic acid production

Jaeyong Lee, Eun Sil Kang, Sho Kobayashi, Takujiro Homma, Hideyo Sato, Han Geuk Seo, Junichi Fujii



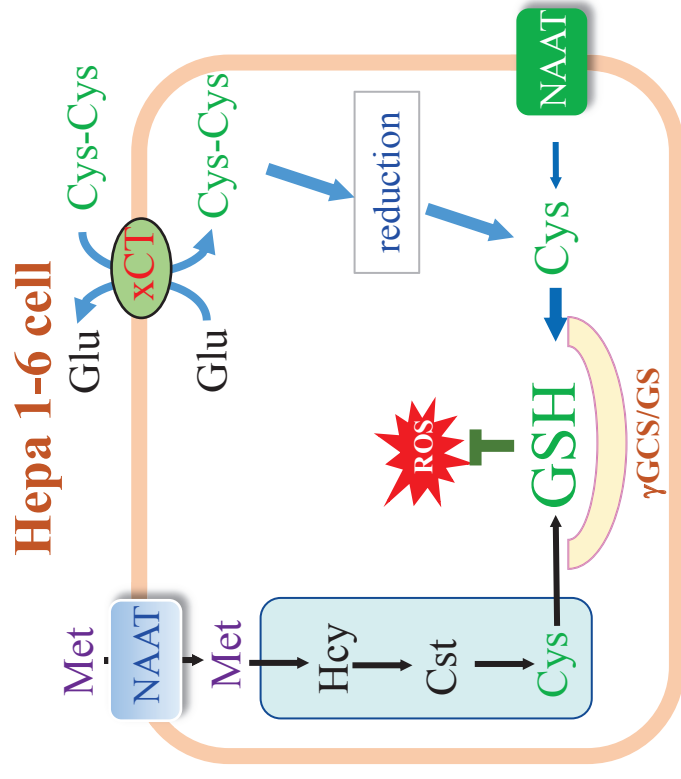
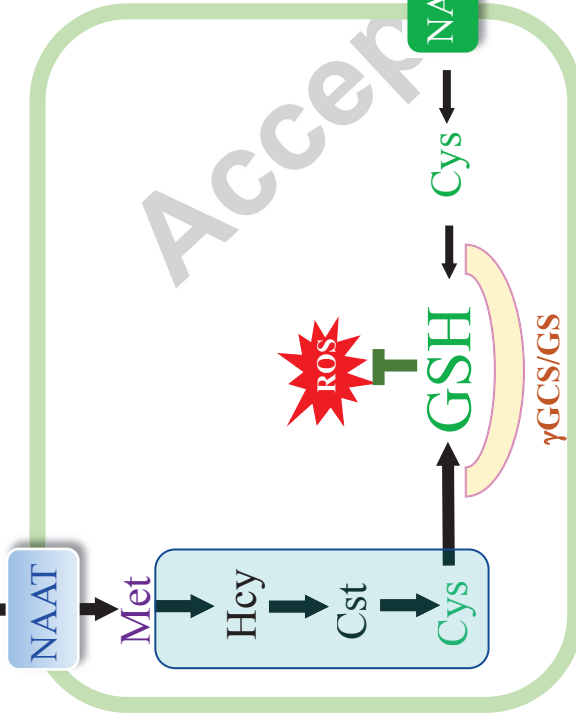
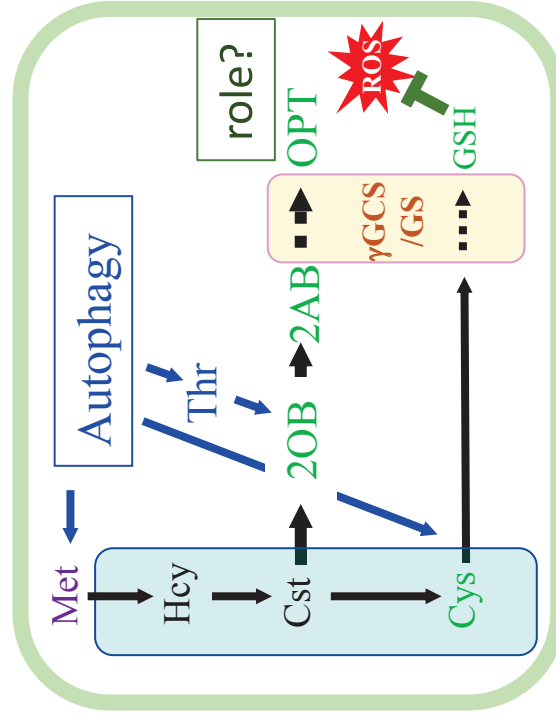
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Graphical Abstract **Primary hepatocyte****Conventional culture****Cys/Met-free culture**

**Differential cysteine-supply systems between the primary mouse hepatocytes and Hepa 1-6 cells under conventional or Cys/Met-free culture.** Met; Methionine, Hcy; Homocysteine, Cst; Cystathionine, Cys; Cysteine, Thr; Threonine, Glu; Glutamate, 2OB; 2-Oxo-butyric acid, 2AB; 2-Amino-butyric acid, GSH; Glutathione, OPT; Ophthalmic acid,  $\gamma$ GCS;  $\gamma$ -Glutamylcysteine synthetase, GS; Glutathione synthetase, NAAAT; neutral amino acid transporter

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