1st screening

<u>Activation of rat oval cells by 2-AAF/PH model</u>

Liver perfusion by collagenase and preparation of non parenchymal cells (NPCs)



Preparation of total RNA for Signal sequence trap (SST) methods



54 membrane proteins



<u>2nd screening</u>

Profiling of mouse counterpart genes



Analysis of expression pattern by RT-PCR and northern blotting Normal liver / DDC liver / Partial hepatectomy / Acute heptitis by CCI₄



Characterization of molecules specifically up-regurated in DDC liver



Identification of oval cell markers conserved between rats and mice