**Bioinformatic Analysis of micro-array gene expression data in Pancreatic Adenocarcinoma**

1.Introduction

Pancreatic ductal adenocarcinoma is the most deadly common cancer because

2.Material and Methods

* 1. Microarray data

The microarray data for the nonnegative matrix factorization analysis of pancreatic cancer were downloaded from the GEO datasets ([www.ncbi.nlm.nih.gov/geo](http://www.ncbi.nlm.nih.gov/geo)) as follows: GSE16515. The gene expression profiles of GSE16515 were obtained using the GPL570 platform. GSE16515 is consisted of 36 tumor and 16 normal tissues.

* 1. Analysis codes of screening procedure