### **Supplementary information**

### Exome sequencing identifies a novel mechanism for 5-Fu resistance in colorectal cancer-

Lining Zhang<sup>1</sup>, Ruolan Song<sup>1, 2</sup>, Dongsheng Gu<sup>2</sup>, Xiaoli Zhang<sup>2</sup>, Beiqin Yu<sup>1</sup>, Bingya Liu<sup>1,\*</sup>, Jingwu Xie<sup>2,\*</sup>

<sup>1</sup>Shanghai Key Laboratory of Gastric Neoplasms, Shanghai Institute of Digestive Surgery, Ruijin Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai 200025, China

<sup>2</sup>Departments of Pediatrics, Biochemistry and Molecular Biology, Pharmacology and Toxicology, The Wells Center for Pediatrics Research and IU Simon Cancer Center, Indiana University School of Medicine, Indianapolis, IN 46202, USA.

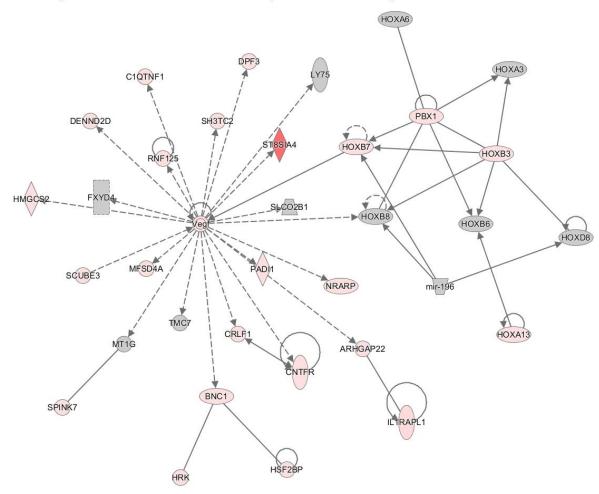
\*Correspondence address. Jingwu Xie, E-mail: jinxie@iu.edu; Bingya Liu, Email: liubingya@sjtu.edu.cn

Email addresses for all authors: Lining Zhang- <a href="mailto:zln629@163.com">zln629@163.com</a>; Ruolan Song- <a href="mailto:ruolsong@iu.edu">ruolsong@iu.edu</a>; Dongsheng Gu- <a href="mailto:donggu@iu.edu">donggu@iu.edu</a>; Xiaoli Zhang- <a href="mailto:zhang86@iu.edu">zhang86@iu.edu</a>; Beiqin Yu- <a href="mailto:yubeiqin@126.com">yubeiqin@126.com</a>; Bingya Liu- <a href="mailto:liubingya@sjtu.edu.cn">liubingya@sjtu.edu.cn</a>; Jingwu Xie- <a href="mailto:jinxie@iu.edu">jinxie@iu.edu</a>

# Supplementary figures from IPA analyses

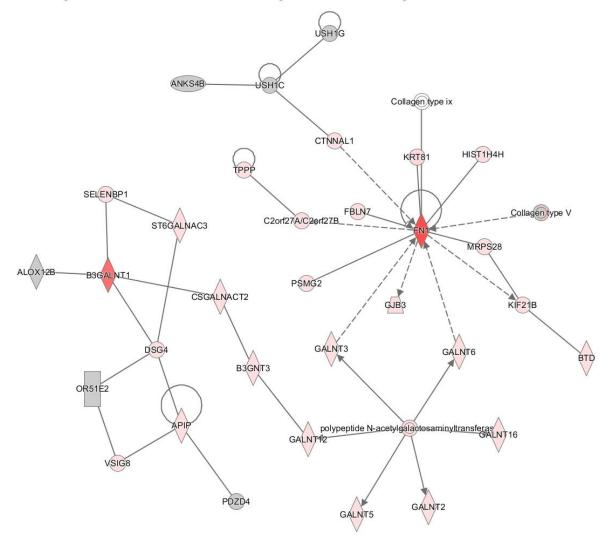
# **Supplementary figure 1- Signaling networks**

Network 2 : LoVo genes-20160714new-list - 2016-07-13 09:23 AM : LoVo genes-20160714new-list : LoVo genes-20160714new-list - 2016-07-13 09:23 AM



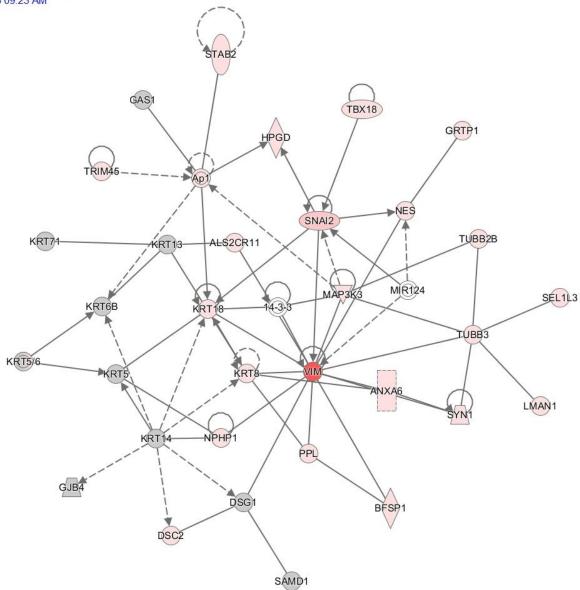
# **Supplementary figure 2- Signaling networks**

Network 9 : LoVo genes-20160714new-list - 2016-07-13 09:23 AM : LoVo genes-20160714new-list : LoVo genes-20160714new-list - 2016-07-13 09:23 AM



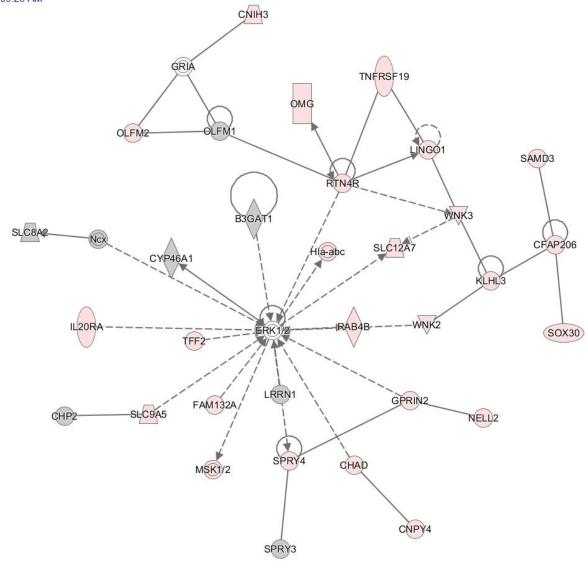
# **Supplementary figure 3- Signaling networks**

Network 17 : LoVo genes-20160714new-list - 2016-07-13 09:23 AM : LoVo genes-20160714new-list : LoVo genes-20160714new-list - 2016-17-13 09:23 AM



# **Supplementary figure 4- Signaling networks**

Network 20 : LoVo genes-20160714new-list - 2016-07-13 09:23 AM : LoVo genes-20160714new-list : LoVo genes-20160714new-list - 2016-07 13 09:23 AM



# **Supplementary figure 5- Signaling networks**

Network 23 : LoVo genes-20160714new-list - 2016-07-13 09:23 AM : LoVo genes-20160714new-list : LoVo genes-20160714new-list - 201 -07-13 09:23 AM

