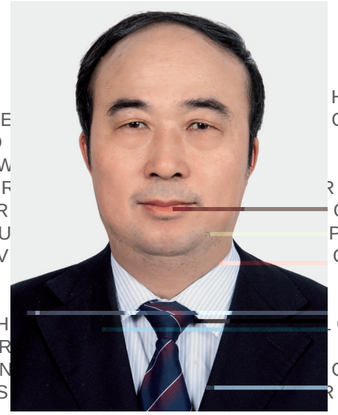
&KHQ 'DKXD ,QVWLWXWH RI =RRORJ\ &KLQHVH $FDGHP\ RI 6FLHQFHV

Over the last ten years, the research team led by Professor Dahua Chen has been using Drosophila and mouse as model organisms to study the molecular mechanisms that FRQWUROOLQJ DV\PPHWULF GLYLVLRQ RI JHUPOLQH VWHP FHOOV DQG HSLJHQHWLF UHJXODWLRQ DQG KDV PDGH JUHDW FRQWULEUXWLRQV WR WKH ELRORJ\ +LV ZRUNV FOHDUO\ HOXFLGDWH WKH PROHFXODU GLIIHUHQWLDWLQJ GDXJKWHU &% GLIIHUHQWLDOO\ UHVSRQG WR VWHHS JUDGLHQW RI %03 VLJQDOLQJ UHVSRQVH WKDW FRQWUROV &KHQ DQG KLV FROOHDJXH <L 7DR SHUIRUPHG PDWKHPDWLF PRDELVWDEOH EHKDYLRU RI WKH IHHGEDFN ORRS V\VWHP LQ FRQWU ,Q VWXG\LQJ PHCKDQLVP RI KRZ WKH +K VLJQDOLQJ UHJXODWHV uncovered a bidirectional control mechanism that is important for signal-receiving cells to precisely interpret external signals, thus maintaining reliability of signaling transduction GXULQJ GHYHORSPHQW 5HFHQWO\ 'DKXD &KHQ DQG KLV FROOH QRYHO '1$ PRGLÀFDWLRQ DQG LOORSRVHG D SRWHQWLDO UROH R PRGLÀFDWLRQ LQ FRQWUROOLQJ GHYHORSPHQW LQ KLJKHU HXN GLUHFWLRQ LQ WKH ÀHOGV RI GHYHORSPHQWDO ELRORJ\ DQG HS



D þ
&KHQ 'DKXD

陈大华

H GHYHORSPHQW
G RI GHYHORSPHQWDO
*6& DQG LWV
WKXV IRUPLQJ D
RUHRH DQG KD
G UHYHDOHG D
PLQDWLRQ RI *6&V
ORSPHQW WKH\

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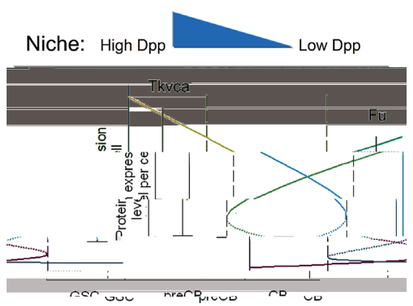
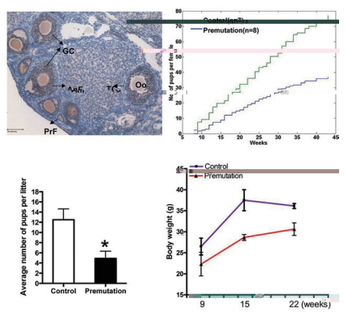
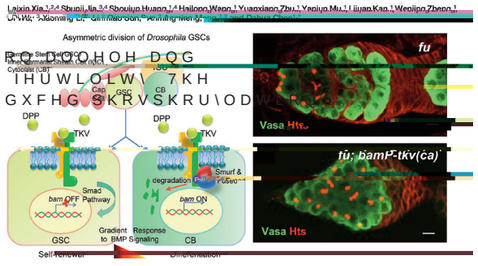




The Fused/Smurf Complex Controls the Fate of *Drosophila* Germline Stem Cells by Generating a Gradient BMP Response

N6-Methyladenine DNA Modification in *Drosophila*

Guoqiang Zhang,[1,5] Hua Huang,[2,5] Di Liu,[2,5] Ying Cheng,[1] Xiaoling Liu,[2] Wenxin Zhang,[1] Ruichuan Yin,[2] Dapeng Zhang,[2] Peng Zhang,[3] Jianzhao Liu,[4] Chaoyi Li,[1] Baodong Liu,[1] Yuewan Luo,[1] Yuanxiang Zhu,[1] Ning Zhang,[2] Shunmin He,[3] Chuan He,[4] Hailin Wang,[2,*] and Dahua Chen[1,*]


Asymmetric division of Drosophila GSCs
Cyst Stem Cell (CSC)
Germline Stem Cell (GSC)
Cyst Stem Cell (CSC)
Cyst Stem Cell (CSC)
Cyst Stem Cell (C