

SUPPLEMENTARY MATERIAL

corresponding to:

Stem cell protection mechanisms in planarians: the role of some heat shock genes

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DjsHSP	-----
SmedsHSP	MFRFLDEPIFNSLYWPEYSHVIVPKRNNLWSTSIPITGYQPNEIAIKEEKTEEVEVKII 60
DjsHSP	-----
SmedsHSP	PSNVDNENLRSIMTKDGVVLKAPYKNTTESSSVNPIKLN 40 VHAKHVNEEDFSEFKKCIKIPKNVDHENLRSTMKEGLLVKAPYKISEDSVVVKPIKINR 120 *.*.*:***** *;*:***** :*. * :****:***
DjsHSP	EDNWNGIWGELGRLNDQMNMQIDFGGIFSHHPRTEFVADDNKESGTWRMKVNVGKDFTS 100
SmedsHSP	EDTWSGIWGELGRLNDQMNMHIDFGGALSHQPRVEFPDENKESGTWRMTINVGKDFKSD 180 **.*.*****:*****:***** :*:***.**:*****. :*****.**
DjsHSP	DIKLKHQNNEIHLEAKKESKGQDSISSRYIKEVLTLPPEGIEQDKIHSKLMNGQLIEAP 160
SmedsHSP	DIKLRHQNNIEYLEAKKETKTDNSSSRYIKEVLSLPEGIEEDKLNSKLLDNGQLVIEAP 240 *****:*****:*****:*****:*****:*****:*****:*****:*****
DjsHSP	CKKMPNLIRGDEGKVIPVESGDISKMAINNEC 192
SmedsHSP	CKKMPSIGHDDKGKVIPVESDESTKMAVDN-- 270 *****. : .*:*****. : *****:*

Supplementary Fig. 1. Amino acid sequence comparison of sHSPs from *D. japonica* and *S. mediterranea*. *Djshsp*: partial predicted amino acid sequence of a gene cloned in *D. japonica* (accession number FR754509). *Smedshsp*: predicted amino acid sequence of a gene identified by *in silico* analysis in *S. mediterranea* (genomic region v31.015798). The grey region represents the conserved α -crystallin core domain.

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MGKDYYSLGTQKGASDDEIKKAYRKMALKYHYPDKNKSPNAEAKFKEIAEAYEVLSDPKK 60
KEIYDKYGEGLKGGMGGGSDGSGGGPGFTYTFHGDPREIFKNFFGTDDPFANIFGNHSR 120
RRGADNFMDVDDDFHEPGISLFSGFNTGGGSFPHAQMKQDPPIYHDLSVSLEDVLSGTLKK 180
IKITRKRPSPAGNSLIDEEKILEIDVKKGWKAGTKITFPREGDKYLTNDNIPADIVFVIKD 240
RTHRHFKRDGCDIRIKVKISLKDALCGIPNLQIPTLENQMINLPINTVIKPDTQKRIPGR 300
GLPDNKNPSRRGDIVVEFEIIFPDSLTDNAKKVIKQSLPDFSPSY 345

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Supplementary Fig. 2. Dduced amino acid sequence of Smedhsp40/DnaJ, identified by *in silico* analysis in *S. mediterranea*. Blue characters indicate the conserved J domain at the N terminus. The Gly/Phe-rich region is in red characters.