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Summer Research Scholar

1D PH -D]PLQH \$ULHOOH 6XVDQD  
6FKRR O , QGLDQD 8QLYHUVLW\ %ORRPLQJWRQ  
0HQWRU (ULQ & 'DY6HSSKR ' 3K\$QWWLHQV6H-SDSURYDQ' 3K '

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7LWOOHDWHUQDO SHULQ DBWdabacterFmOngun\DXWEWQDQG IHFDO , J\$ L  
WUDGLWLRQDO IDUPLQJ DQG XUEDQ FRPPXQLWLHV  
%DFNJURKGSUHYDOHQFH RVI KDDOOGWJLFFD WLRLBTHQWLQHF UOHDWMH G \  
SDUWLFXODUO\ LQ KLJK LQFRPH :H VQH UQG B] HFGKIEQ&QMVQ LUHVS RQW  
DWRSLF GLVHDVH LQ KRZHYH UWVRQH VPADUMDRWHLJVLH RI KSDUJLP DEWH  
GDWHDWHUQDO SUHQDWDO H[SRVXUDIV WERH HMQV DGRWQ RQWBD EHD\$UPR  
DWRS\ LQ HDUO\ OLIH EXW LW LRLQXQEBQH G UWRK ZW KWHK IPQ VSHQBRW  
SHULQDWDO JXW POKFHQRIEHL RHPDUO DQ PLPQEQ HY GHIYRQXOR SPRIHFQWQ LVPV  
WUDQVSODFHQWD O WUDQVHU RI EDDQFW HRULLFDUOR EPLHRVPIE BQ UWQJV G  
PDWHUQDO LQIDQWGIXRPLXQQ HS D B LQQRQH QLQVQHQ QVKHWGLWLRUQVH PLFUR  
RQ IDUPV WKH PDHWIGXQDQJP\$ B H RQEDRQH PQ\SSJORDWDFWL RQ DJDLQV  
:H KDYH LGH QRVQLLIJLDHAGL RKQJ B QFGR OWE RQ B DVQHUEBRIHnHnHgum  
VXEV SimMantisHBVinfantis LQ LQIDQWV IURP WKH 20G 2UGHU IDH RQIQRJQ LWH  
FRPPXQLW\ DW ORZG LULHV\NVR I LDHWORDBALK V B DVQR5 RQ KDHQWWH WURS 2& ZKR  
ULVN IR B. infantis LHMU WUDGLWL RQDOO\ KLJK LQ QRQZ QGXHWURD  
DWRSLF GLVHDVH EXW WIKHfadtR XQWL CRWDHEDQV RQ L XQVF DRHQUR I 2XU O  
VKRZQ WKDW WKH R\$RVM PWFIRRQE RR P20FIRR PSHQJ LGQDJWQ Q VSHULRG LV  
WKDW RI 52& ZRPHQ 220 ZRPHQ DO VRV KRDWRFUK DDLKLUDKWW\ FIDISLG  
EDFWHULDO PHWD EGRXOFHW HJ\$ NSQRZQ FWKRRZLQW KIRZPHDWWHUQDO JXW P  
GXULQJ WKH SHULQ DBWdabacterFmOngun\DXWEWQDQG I XUWKHU LQIOX  
LPPXQLW\ KDV QR MGEIHQH QWUQG HWWWRQDQWLDHMUPLQJ FRPPX  
2EMHFWILRYHH[DPLQH WKH PDWHUQDO JXW PUFURRIE LLQRI B QDW DDV VSRRFW  
infantis DQG DVVHVV PDWHUQDO IHFDO , J\$ DQG DQG HWWWRQDQWLDHMUPLQJ FRPPX  
0HWKRQKH DEXOGBiMantisHZDRV PHDVXUHG YLD T3&5 LQ P DWHUQD  
WULPHVWHU WR ZHHNV SRVWSDUWXPEQZQJ QWWR R5Q &V DQ S OHVQ  
52& Q 3URWHLQI UZDPV DH [WAXLED/FHMWH QI VPDPASHOUHQ/D OD QKGF DQ (/,6\$ ZD  
PHDVXUH WKH OHYHOV RI IHFDO , J\$ DQG , J\$  
5HVXO2WVWKH PDWHUQDO IHFDO '1\$ VDPSOH2/2QDQ2]H GKDQD  
GHWHFWDEBOiMantisHZDRV PHDVXUHG YLD T3&5 LQ P DWHUQD  
FRORQL] B. infantisW K , Q WHUPV RI PXFRVDO LPPXQH GHMSRQVH  
EHWZHHQ 220 DQG 52& PRWKHU V EXWLJHKHJOLQJ \$52 & RQHFRQWLUYDHW  
ZRPHQ & RQFHQWUDW\ LVRXQEVF QD QVH LGW KIHURHOG H QWHDGP \$QH YHUVXV  
& RQFOXAKRQEURDG ODFN RIB. infantis FWDEOH OHYHOV RI

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