

%HWXOLQ 5HVFXHV (OHYDWHG 65(%3 ([SUHVVL
&KURQLF 6XOIXU 'LR[LGH

-XO%DL -LDQ]KRQDQGH <LQJ\LQJ *DR

5HVHDUFK &HQWHU RI (QYLURQPHQWDO 6FLHQFH DQG (QJLQHHULQJ ,QVWLWXWH RI (QYLURQPHQWDO 0HGLFLQH DQG -TM\WFRORVD HDQ[KLQD

'HSDUWPHQW RI 3KDUPDFRORJ\ 8QLYHUVLW\ RI 7H[DV +HDOWK DW 6DQ \$QWRQLR)OR\G &XUO 'LUYH &RUUHVSRLQJ DXWKRU -XOL %DL ,QVWLWXWH RI (QYLURQPHQWDO 0HGLFLQH DQG -TM\WFRORVD HDQ[KLQD

5HFHLYHG \$GDW@ \$FFH\$GDW@ GDWH 3XEOS\$GDW@ GDWH

&RS\ULJKW < %DL - 7KLV LV DQ RSHQ DFFHVV DUWLFOH GLVWULEXWHG XQGHU WKH WHUPV RI WKH GLVWULEXWLRQ DQG UHSURGXFWLRQ LQ DQ\ PHGLXP SURYLGHG WKH RULJLQDO DXWKRU DQG VRXUFH D

(GLWRULDO

6XOIXU GLR[LQHD 5RORXUOHVV JDV ZLWK D VKDUS LUULWDWLQJ RGRU ,W LV SURGXFHG E\ EXUQLQJ IRVVLO IXHOV DQG E\ WKH VPHOWLQJ RI PLQHUDO RUHV WKDW FRQWDLQ \$XORIGXUFH(VSWRXLWH WRSWRPV VXFK DV WKLFNHQLQJ RI WKH PXFRXV OD\HU RI WKH UHVSLUDWRU\ WUDFW SQHXPRQLD QDVRSKDU\QJLWLV IDWLJXH > @ (SLGHPLRORJLFDO LQYHVWLJDWLRQV HV\$BVKWIM WKFUDWH D62HV PRUELGLW\ DQG PRUWDOLW\ SDUWLFXODUO\ DPRQJ VXEMHFWV ZLWK UHVSLUDWRU\ GLVHDVHV FDUGLRSXOPRQDU\ GLVHDVH > @ +RZHYZH WKH XQGHUO\LQJ PROHFXODU PHFKDQLVP UHPDLQV XQFOHDU 2XU SUHYLRXV VWXG\ LQGLFDWHG WKDW FKURQLF 62

X B C/Ig@ 04@ ?8 XWUW

65(%3 RU 65(%3 FRPSDUH 3

&LWDW~~W~~DQ - +H - DQG *DR <
%LRUHV &RPPXQ H

%HWXOLQ 5HVFXHV (OHYDWHG 65(%3 ([SUHVVLRQ LQ +H

3DJH RI

6RQ 1+ 3DUN 76 <DPDVKLWD + <RNR\DPD 0 +XJLQV /\$ HW DO
&DUGLRP\RF\WH H[SUHVVLRQ RI 33\$5JDPPD OHDGV WR FDUGLDF G\VIXQFWLRQ
LQ PLFH - &OLQ ,QYHVV