



## CETP Gene and Its Role in Diabetes Mellitus Type II - A Review

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'HSDUWPHQW RI %LRWHFKQRORJ\ \$ 3 - \$EGXO .DODP 7HFKQLFDO 8QLYHUVLW\ 8WWDU 3UDGHVK ,QGLD  
'HSDUWPHQW RI 3DWKRORJ\ .LQJ \*HRUJH\V 0HGLFDO 8QLYHUVLW\ 8WWDU 3UDGHVK ,QGLD

Corresponding author: 0RKG :DPLTXH 3K ' 6FKRODU 'HSDUWPHQW RI %LRWHFKQRORJ\ \$ 3 - \$EGXO .DODP 7HFKQLFDO  
ZDPLTXHNKDQ #JPDLO FRP

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### Abstract

3ODV0DSRSURWHLQV DUH FRQWLQXRXVO\ UHPRGHOOHG WKURXJK WKH DFWLRQV SDUWLFXODU WKH WUDQVIHUV RI FKROHVWHU\O HVWHUV &( DQG WULJO\FHULG NQRZQ DV WKH FKROHVWHU\O HVWHU WUDQVIHU SURWHLQ &(73

\*HQHWLF SRO\PRUSKLVV RI WKH HQJ\PHV DQG SURWHLQV LQYROYHG LQ OLSLG SURWHLQ &(73 KDYH EHHQ VKRZQ WR DIIHFW SODVPD OLSLG FRQFHQWUDWLRQV &( OLSRSURWHLQ 9// OHYHOV ,W WUDQVIHUV FKROHVWHURO ITMaððp/ /RZ 'HQVLW\ 3URWHLQ &( &KROHVWHURO (VWHUV 9// 9HU\ /RZ 'HQVLW\ /LSRSURWHLQ 7\* 7ULJO\FHULGHV

,QWURGXFWRQ

3ODVPD

&(73IDFLOLWDWHV WKH WUDQVIHU DQG H[FKDQJH RI FKROHVWHU\O HVWHU &( DQG WULJO\FHULGH 7\* EHWZHHQ WKH SODVPD OLSRSURWHLQV DQG SOD\ DV LPSRUWDQW UROH LQ +/ &( DQG DSR \$ , FDWDEROLVP ,Q VRRP SULPDU\ DQG VFRQGDU\ K\SHUOLSLGHPLDV H J IDPLOLDO K\SHUFKROHVWHUROHPLD G\VEHWDOLSRSURWHLQHPLD K\SHUWULJO\FHULGHPLD DQG QHSKURWLF V\QGURPH DQG GXULQJ SRVWSUDQGLDO OLSHPLD DFFHOHUDWH &(73 PHGLDWHG &( WUDQVIHU UHVXOWV LQ LQFUHDVHG &( QHW PDVV WUDQVIHU IURP +/ WR 9// RU FK\ORPLFURQ SRVVLEO\ FRQWULEXWLRQ %RQ\PHXLYG ZLWK +/ &( OHYHOV DQG &( HQULFKPHQW UHF\SRWHQWR 0R00GHVWRU\HQGHSHQGHW FK\ORPLFURQ DQG 9// UHPQDQWV > @ \$SR\LSR SURWHLQ (SRKHV\O\DWXGLHV ZID FHQWUDO UROH LQ FOHDUDQFH RI OLSRSURWHLQ UHPQDQWV E\ VHUYLQJ DV OLJDQG IRU /'^EH GHFUHDVHG E\ KHDY\ DOFRKRO GULQNLQJ DQG SK\VLFDQ WU &(73 LV NQRZQ WR WUDQVIHU &( IURP +/ WR YHU\ ORZ GHQVLW\ OLSRSURWHLQ 9// LQ H[FKDQJH IRU WULJO\FHULGH 7\* :KLOH WKH &( LQ WKH 9// // SRRO LV GHOLYHUHG WR WKH OLYHU DQG HOLPLQDWHG IURP WKH ERG\ DV D FRPSRQHWR RI ELOH WKH 7\* LQ ORZ GHQVLW\ OLSRSURWHLQ // DQG +/ LV K\GURO\]HG E\ KHSDWLF OLSDVH +/ UHVXOWLQJ LQ VPDOOHU GHQVHU SDUWLFOHV > @ +/ LV LQYROYHG LQ WKH PHWDEROLVP RI ,/ LQWHUPHGLDWH GHQVLW\ OLSRSURWHLQ DQG ODUJH // WR VG// SDUWLFOHV DQG LQ WKH FRQYHUVLRQ RI +/ WR +/ LQ DGGLWLRQ WR 0@Op0SQ À VRSQY V

GHFUHDVHG &(73 PDVV DQG DQ LQFUHDVH LQ +' / FKROHVWHURO > @ \$  
UHFHQWO\ GHVFULEHG UHODWL\ / FRPPRQ PXWDWLRQ LQ WKH  
SURPRWHU FDXVHV GHFUHDVHG WUDQVFULSWLRQDO DFWLYLW\ DQG PDUNHG K\SH  
DOSKD OLSRSURWHUW\ DUHG UHYHUVH FKROHVWHURO  
WUDQVSRUW SHFLRQ\ WBFUHVXOWV LQ UHGXFHG &  
FRQWHQWV LQ 9 / / LQWHUPHGLDWH GHQVLW\ OLSRSURWHUW\ DQG / /

SURWHLQ JHQH LQ MDSQHVH K\SHUDOSKDOLSR SURWHLQHPLF VXEMHFWV \$UWHULRVFOH  
URPBDVF %LRO  
%RHNKROGMYHQKRYHQ -\$ +RYLQJK \*. -XNHPD -: .DVWHOHLQ -- HW  
DO &(73 JHQH YDULDWLRQ UHODWLRQ WR OLSLG SDUDPHWHUV DQG  
FDUGLRYDVFXODU ULVN &XUU 2SLQ /LSLGRO  
%RUJGJHYHOOHQVHQE%WGH-RQJ 3( %DNNHU 6- HW DO  
HHvHRWFKROHVWHU\O HVWHU WUDQVIHU SURWHLQ & \$ SURPRWHU  
SRO\PRUSKLVP RQ KLJK GHQVLW\ OLSRSURWHLQ FKROHVWHURO LV GSHQGHQW RQ  
VHUXP WULJO\FHULGHV - &OLQ (QGRFULQRO 0HWDE  
)LGDQL\*RXODV \$ &URRN 5 3WHUVHQ 5& 7DQJDORV ( HW DO \$Q  
DVVRFLDWLRQ VWXG\ RI WKH FKROHVWHU\O HVWHU WUDQVIHU SURWHLQ 7DT, %  
SRO\PRUSKLVP ZLWK ODWH RQVHW \$QKHLPHU V GLVHDVH 1HXURVFLHQFH /HWWHUV  
  
%HUQDUG 6 0RXOLQ 3 /DJURVW / 3LFDUG 6 (OFKHEO\ 0 HW DO  
\$VVRFLDWLRQ EHWZHHQ SODVPD +'/FKROHVWHURO FRQFHQWUDWLRQ DQG 7DT %  
&(73 JHQH SRO\PRUSKLVP LQ QRQ LQVXOLQ GSHQGHQW GLDEHHV PHOOLWXV -  
/LSLG 5HV  
%URZQ 0/ ,QDJX \$ +HVOHU &% \$JHOORQ /% 0DQQ & HW DO  
0ROHFXODU EDVLV RI GSHQGHQW WUDQVIHU SURWHLQ