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	ular senescence in human retinal pigment epithel nology Graduate School of Hankock University Di the visual impairment in aduit patients with diase se, the high glucose-induced cellular senescence nown. In this study, we investigated the role of pe- R) 6 on the high glucose-induced cellular senescence all line, ARPE-18 cells. Trastment of c-glucose sign various of PPAR6 by GWOSID156, a specific ligand ctivation of CPAR6 by GWOSID156, a specific ligand ctivation of CPAR6 by GWOSID156, a specific ligand ctivation of CPAR6 by GWOSID156, a specific ligand ctivation of CWS01516 inhibited the high glucose (ROS) in al-Control-ARPE-19 cells. Alevever, the e iminated in sIPPAR6-ARPE-19 cells. Advactived TMPAR comment of GWS01516 inhibited the high glucose converse high glucose-inhibited expression of SR at 1 in time and concentration-dependent mann coverse high glucose-inhibited expression of SR os-induced cellular senscence vis upregulating is keyword: High glucose; xidatives stress; cellul thelial cell; PPAR6; SRT1	Iai Kim Do Hyun Department of Animal Biotech abelic retinoparthy is one of the major cause on tes mellikus. Although the increasing evidence to in returnal pigment epithelia cells is largely unit motion proliferator-activated receptor (PPA nece in human adult returnal pigment epithelial o anificantly induced cellular sensescence in human adult and adult returnal pigment epithelial o anificantly induced cellular sensescence in human adult and the sense of the sense of the sense ellular sensescence was marked y suppressed b IPPAR6, but not of VPAR or PPARb (ligand A) in the althyrolia ACcr 10 August 10 August 10 IPPAR6, but not of VV1643, a specific ligand of the sense of the sense of the sense induced generation of reactive oxygen species IPPAR6 is significantly increased expression of SI are. In addition (GWSD1516-activatel PPAR6 in by pro-treatment of SIRT1 inhibitor. Thus, curre 6 activation significantly suppressed high gluc the expression of SIRT1 in human ARPE-19 cell ar sensescence; human adult retinal pigment epi	Department for a boson Activy proliferator-activy high glucose-i- human retir Department Department Canhare Activy proliferator-acti- high glucose-i- human retir	ation of peroxison yixted receptor ô duced cellular set al pigment epithel hasamic by Kim Do Rym Fehruny, 2015 ent of Animal Bietenhan School of Hankon Univ ation of peroxison yixted receptor ô duced cellular set al pigment epithel	ne mmeliorates sescence in ini cells niti versionality sescence in iai cells		

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Abstract	Activation of peroxisome prof Biotechnology Graduate Schu easing evidence indicates the pithelia cells is targely unknov an aduit retinal pigment epith scence was markedly suppre- ration of reactive oxygen spe- a specific ligand of PPAR6, bu bolished on cellular senescen hControl-ARPE-19 cells. How RT1 in time- and concentratio on of cellular senescence trea pressed high glucose-induce man adult retinal pigment epit	ferator-activated receptor 5 ameliorates hi bol of Hankook University Diabetic retinopa It various cells enter the state of senescene, wi. In this study, we investigated the role of elial cell line, ARPE-19 cells. Treatment of o- ssed by the activation of PPAR6 by GW501 to to of WY14643, a specific ligand of PPA to of WY14643, a specific ligand of PPA ec compared with shControl-ARPE-19 cells ever, the effects of GW501516 on ROS gen n-dependent manners. In addition, GW501 sted with o-glucose restored by pre-treatm d cellular senescence via upregulating the of thefial cell; PPAR6; SIRT1	ph glucose-induced cellular senescence in human n hy is one of the major cause on the visual impairme e earlier following exposure to high glucose, the high peroxisome proliferator-activated receptor (PPAR) glucose significantly induced cellular senescence in 516, a specific ligand of PPAR6, but not of PPAR0 on Ucose. High glucose-induced cellular senescence ta or rosigitazone, a specific ligand of PPAR9. In the . Treatment of GW501516 inhibited the high glucos ration were eliminated in shPPAR6-ARPE-19 cells. 516-activated PPAR6 recovered high glucose-inhibi ant of SIRT1 inhibitor. Thus, current study indicated xpression of SIRT1 in human ARPE-19 cells. keywor	etinal pigment epithelial Kim Do Hyun Department of Animal nt in adult patients with diabetes meliitus. Although the incr h glucose-induced cellular senescence in retinal pigment e 5 on the high glucose-induced cellular senescence in hum numan ARPE-19 cells. High glucose-induced cellular senescence rPPAR igands. Activation of PPAR6 also inhibited the gene was markedly suppressed by pre-treatment of GWS01516, a shPPAR6-ARPE-19 cells, the effects of GWS01516 were a e-induced generation of reactive oxygen species (ROS) in s Activation of PPAR6 significantly increased expression of SI ted expression of SIRT1. Finally, GWS01516-induced inhibit that GWS01516-induced PPAR6 activation significantly sup of ci High glucose, oxidative stress; cellular senescence; hu
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