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The Journal of Biomedical Research, 2019 0(0): 1–1

JBR

Supplementary Data

Macrophage-derived matrix metalloproteinase-1 enhances aortic aneurysm formation in transgenic rabbits

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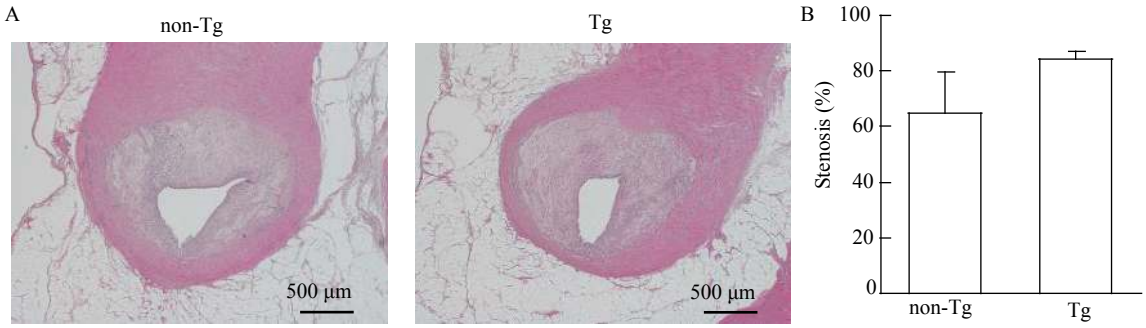

Supplementary Fig. 1 **Analysis of atherosclerotic lesions of coronary arteries.** A: Representative micrographs left coronary artery of main trunks (hematoxylin-eosin staining) is shown. B:Coronary artery atherosclerosis was expressed as stenosis quantifying lesion area in lumen area . *n*=4 and *n*=10 for non-Tg and Tg respectively.

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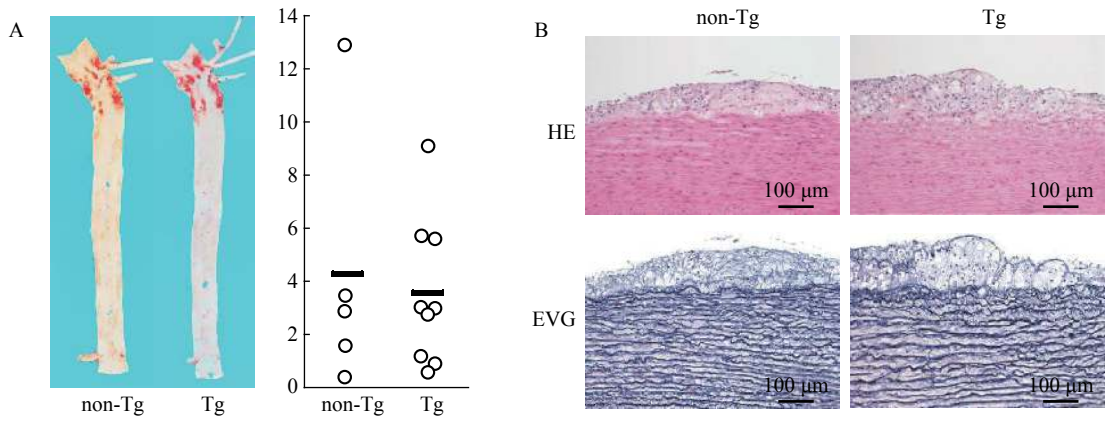
Received 01 October 2018, Accepted 28 November 2018, Epub 28 February 2019

CLC number: R543.1, Document code: A

The authors reported no conflict of interests.

https://doi.org/10.7555/JBR.33.20180097



Supplementary Fig. 2 **Cholesterol rich diet-induced early atherosclerosis.** Human MMP-1 transgenic (Tg) and littermate (non-Tg) rabbits were fed a cholesterol rich diet for 6 weeks. A: Representative aortas stained by sudan IV from non-Tg and Tg rabbit (left). Atherosclerotic lesions of aortic arch and thoracic aorta defined by sudanophilic area were quantified with an image analysis system (right). Each dot represents the lesion area of an individual animal. B: Representative micrographs of the aortic arch lesions from non-Tg and Tg rabbits. Serial paraffin sections were stained with hematoxylin-eosin (HE) and elastica van Gieson (EVG).

Supplementary Table 1 **Body weight, biochemical, and hematological analysis at 4-month-old rabbits.**

Parameters	non-Tg (*n*=11)	Tg (*n*=13–15)
Body weight (kg)	2.8 ± 0.1	2.7 ± 0.1
Total cholesterol (mg/dL)	41 ± 5	49 ± 5
Triglycerides (mg/dL)	43 ± 3	46 ± 2
HDL-cholesterol (mg/dL)	25 ± 3	27 ± 3
NEFA (μEq/L)	767 ± 113	656 ± 56
Glucose (mg/dL)	104 ± 4	96 ± 3
Total protein (g/dL)	5.6 ± 0.1	5.7 ± 0.1
ALP (U/L)	379 ± 28	412 ± 18
LDH (U/L)	157 ± 11	172 ± 8
AST (U/L)	21 ± 2	20 ± 1
ALT (U/L)	42 ± 5	39 ± 3
γ-GTP (U/L)	7.7 ± 0.4	8.7 ± 0.3
Creatinine (mg/dL)	1.2 ± 0.0	1.1 ± 0.0
BUN (mg/dL)	25 ± 1	25 ± 1
White blood cells ($\times 10^3/\mu L$)	6.5 ± 0.4	7.6 ± 1.3
Neutrophils (%)	36.2 ± 1.8	35.4 ± 2.3
Lymphocytes (%)	57.4 ± 1.8	58.1 ± 2.4
Monocytes (%)	1.5 ± 0.3	1.7 ± 0.2
Eosinophils (%)	0.2 ± 0.2	0
Basophils (%)	4.7 ± 0.5	4.8 ± 0.4
Red blood cells ($\times 10^4/\mu L$)	660 ± 10	662 ± 7
Hemoglobin (g/dL)	14.2 ± 0.2	14.1 ± 0.1
Hematocrit (%)	41.8 ± 0.6	41.4 ± 0.4
Platelets ($\times 10^4/\mu L$)	27.2 ± 2.0	26.6 ± 1.4

HDL: high density lipoprotein; NEFA: non esterified fatty acid; ALP: alkaline phosphatase; LDH: lactate dehydrogenase; AST: aspartate transaminase; ALT: alanine transaminase; γ-GTP: γ-glutamyl transpeptidase; BUN: blood urea nitrogen. Mean±SEM, $P>0.05$ *vs*. non-Tg, Student's *t*-test.