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**1** Name of Journal: *World Journal of Diabetes*

Manuscript NO: 63316

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### Basic Study

Diabetes-related intestinal region-specific thickening of ganglionic basement membrane and regionally decreased matrix metalloproteinase 9 expression in myenteric ganglia

Nikolett Bódi, Diána Mezei, Payal Chakraborty, Zita Szalai, Bence Pál Barta, János Balázs, Zsolt Rázga, Edit Hermes, Mária Bagyánszki

## [Basement Membranes in Development - ScienceDirect](#)

<https://www.sciencedirect.com/science/article/pii/S1063582305560034>

Jan 01, 2005 - The most common  $\alpha$  chains in basement membranes are  $\alpha 1(IV)$  and  $\alpha 2(IV)$ , which form a heterotrimer consisting of two  $\alpha 1$  and one  $\alpha 2$  chains. The other polypeptide chains,  $\alpha 3$ ,  $\alpha 4$ ,  $\alpha 5$ , and  $\alpha 6$ , have limited expression in basement membranes (Hudson et al., 1994). A. ...

Author: A Kefalides Nicholas, P Borel Jacques Publish Year: 2005

## [\[PDF\] DIABETES-RELATED STRUCTURAL, MOLECULAR AND ...](#)

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The diabetes-related structural, functional and molecular alterations of capillaries in the vicinity of the myenteric ganglia were investigated in different gut segments of control, streptozotocin-induced diabetic and insulin-treated diabetic rats. The effects of diabetes on the capillary basement membrane, the

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Retinal capillary basement membrane (BM) thickening had been observed long ago in diabetes [5][6][7] and has been found to be associated with the pathogenesis of DR [8][9][10] ; however, the ...

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Thickening of the pulmonary alveolar basement membrane has been shown in types 1 and 2 diabetes mellitus in autopsy studies [13], and Vracko et al. [12] reported that diabetes leads to thickening ...

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Similar findings are observed in galactosaemic rats [31], and in streptozotocin-induced diabetes [6]. Capillary basement membrane thickening in Alzheimer's disease has been widely reported by ...

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The intra-individual variation among glomeruli expressed as coefficient of variation was 7.4% vs 9% (basement membrane thickness) and 11.7% vs 25% (mesangial volume fraction) in the diabetic and

Diabetes-related intestinal region-specific thickening of ganglionic l



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Since **myenteric ganglia** are not vascularized capillaries, adjacent to them must be responsible to provide the **ganglionic** microenvironment, including the proper oxidative circumstances. Sex dependency of enteric neuropathyLiterary data report about sex-dependent sensibility of enteric neurons to the diabetic state [83][84] .

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Jan 01, 2017 · Retinal ganglion cells in diabetes. PubMed Central. Kern, Timothy S; Barber, Alistair J. 2008-01-01. Diabetic retinopathy has long been recognized as a vascular disease that develops in most patients, and it was believed that the visual dysfunction that develops in some diabetics was due to the vascular lesions used to characterize the disease.

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## [Gut Region-Specific Diabetic Damage to the Capillary ...](#)

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