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

**Manuscript NO:** 62628

**Manuscript Type:** MINIREVIEWS

**Malfunction of outer retinal barrier and choroid in the occurrence and progression of diabetic macular edema**

Țălu S *et al.* Outer retinal barrier and choroid in DME

Ștefan Țălu, Simona Delia Nicoara

## Abstract

16

Diabetic macular edema (DME) is the most common cause of vision loss in diabetic retinopathy, affecting 1 in 15 patients with diabetes mellitus (DM). The disruption of the inner blood-retina barrier (BRB) has been largely investigated and attributed the primary role in the pathogenesis and progression in DME, but there is increasing evidence regarding the role of outer BRB, separating the RPE from the underlying



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### Diabetic Maculopathy: A Critical Review Highlighting ...

<https://www.sciencedirect.com/science/article/pii/S0161642083343888>

Nov 01, 1983 · Abstract. **Retinal** ischemia and **edema** are the two major intraretinal components of **diabetic** maculopathy. Focal **macular edema** is caused by focal leakage from **retinal** microaneurysms and dilated capillary segments; diffuse **edema** is caused by leakage from diffusely dilated **retinal** capillaries throughout the posterior pole.

**Cited by:** 445 **Author:** George H. Bresnick  
**Publish Year:** 1983

### Mechanisms of macular edema: Beyond the surface ...

<https://www.sciencedirect.com/science/article/pii/S1350946217300757>

Mar 01, 2018 · **Macular edema** consists of intra- or subretinal fluid accumulation in the **macular** region. It occurs during the course of numerous retinal disorders and can cause severe impairment of central vision. Major causes of **macular edema** include **diabetes**, branch and central retinal vein occlusion, choroidal neovascularization, posterior uveitis, postoperative inflammation and central serous ...

**Cited by:** 148 **Author:** Alejandra Daruich, Alexandre Matet, Alexan...  
**Publish Year:** 2017

### JCI Insight - Diabetic retinopathy: current understanding ...

<https://insight.jci.org/articles/view/93751> ▾

Jul 20, 2017 · Treatments for the vision-threatening complications of **diabetic macular edema** (DME) and proliferative **diabetic** retinopathy (PDR) have greatly improved over the past decade. However, additional therapeutic options are needed that take into account pathology associated with vascular, glial, and neuronal components of the **diabetic retina**.

**Cited by:** 296 **Author:** Elia J Duh, Jennifer K Sun, Alan W Stitt  
**Publish Year:** 2017

### Diabetic retinopathy and diabetic macular oedema pathways ...

<https://www.nature.com/articles/s41433-020-0961-6>

Jun 05, 2020 · The management of **diabetic** retinopathy (DR) has evolved considerably over the past decade, with the availability of new technologies (diagnostic and therapeutic). As such, the existing Royal ...

### Diabetic Macular Edema | Request PDF

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**Diabetic macular edema** involved three structural changes, including sponge-like **retinal** swelling (88%), cystoid **macular edema** (47%), and serous **retinal** detachment (15%).

### Pathophysiology of Diabetic Macular Edema | Request ... 10 mins read

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### Microglia/Macrophages Migrate through Retinal Epithelium ...

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**Diabetic** retinopathy is associated with ocular inflammation, leading to **retinal barrier** breakdown, **macular edema**, and visual cell loss. We investigated the molecular mechanisms involved in ...

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**Macular edema** with blood fluid level (arrow) in foveal cystoid space in a **diabetic** patient who developed **macular** branch vein occlusion. +4 53-year-old patient 2 years following radiotherapy for ...

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It is believed that the accumulation of liquid in the inner **retina** of the **macular** region is the main cause of the destruction of blood-**retinal barrier** (BRB) under high glucose environment. The damage of BRB...

**Author:** Xiao-Li Huang, Yan-Ping Song, Qin Ding,... **Publish Year:** 2019

### [Caspase-14 Expression Impairs Retinal Pigment Epithelium ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4119899>

Integrity of RPE **barrier** is essential for normal **retinal** function and it is disrupted by hyperglycemia contributing to the pathogenesis of **diabetic macular edema**. Therefore, we assessed whether caspase...

**Cited by:** 14 **Author:** Selina Beasley, Mohamed El-Sherbiny, Sylvi...

**Publish Year:** 2014

### [Diabetic macular edema with pachychoroid features | BMC ...](#)

<https://bmcoophthalmol.biomedcentral.com/articles/...> ▾

Oct 02, 2020 · More recently, diffuse and focal **edema** have been described based on the different pathophysiologies of DME development: diffuse **edema** is thought to result from disrupted **retinal** vessel...

**Author:** Kyungeun Kang, Hyungwoo Lee, Minsu ... **Publish Year:** 2020

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### [Macular edema - ScienceDirect](#)

<https://www.sciencedirect.com/science/article/pii/S0039625704001092>

Sep 01, 2004 · **Macular edema** is a leading cause of visual loss in patients with radiation retinopathy (). Guyer and colleagues have reported the largest series of patients following irradiation of choroidal...

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