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Authors: Anna Bielak-Zmijewska, Grazyna Mosieniak, Ewa Sikora



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Is DNA damage indispensable for stress-induced senescence?

Anna Bielak-Zmijewska, Grazyna Mosieniak, Ewa Sikora¹

Laboratory of the Molecular Bases of Ageing, Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw, Poland

All authors participated equally in the preparing of the manuscript

¹Corresponding author:

Ewa Sikora

e.mail:e.sikora@nencki.gov.pl

tel: +4822 5297251

Highlights

- There are two kinds of cell senescence: programmed and stress-induced
- Any kind of stress can induce senescence but certainly the dose is important
- Permanent DNA damage (DSB) and subsequent DNA damage response (DDR) always lead to cell senescence
- Senescence not always depends on DNA damage and DDR

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