"Involvement of the nuclear factor-kappaB (NF-êB) pathway in peritoneal endometriosis"

González Ramos, Reinaldo

ABSTRACT

Endometriosis is a gynecological disease in which endometrial glands and stroma are present outside the uterus. Pelvic pain, infertility and decreased quality of life are the main problems caused by this disease carrying epidemiological and social impact. Peritoneal endometriosis which is characterized by the presence of red, black and white pelvic endometriotic lesions is clearly a multifactorial pathology associated with a local inflammatory response in the pelvic cavity. In vitro studies suggest that the transcription factor nuclear factor-kappaB (NF-êB) is implicated in the transduction of proinflammatory signals in endometriosis. The aim of this study was to investigate the involvement and role of the NF-êB pathway in endometriosis in vivo. Firstly, NF-êB activation and intercellular adhesion molecule (ICAM)-1 expression were investigated in thirty-six peritoneal endometriotic lesions from women. Constitutive NF-êB activation, involving p65- and p50-containing dimers, was d...

CITE THIS VERSION

González Ramos, Reinaldo. Involvement of the nuclear factor-kappaB (NF-êB) pathway in peritoneal endometriosis. Prom. : Van Langendonckt, Anne ; Donnez, Jacques http://hdl.handle.net/2078.1/5237

Le dépôt institutionnel DIAL est destiné au dépôt et à la diffusion de documents scientifiques émanants des membres de l'UCLouvain. Toute utilisation de ce document à des fin lucratives ou commerciales est strictement interdite. L'utilisateur s'engage à respecter les droits d'auteur lié à ce document, principalement le droit à l'intégrité de l'œuvre et le droit à la paternité. La politique complète de copyright est disponible sur la page Copyright policy

DIAL is an institutional repository for the deposit and dissemination of scientific documents from UCLouvain members. Usage of this document for profit or commercial purposes is stricly prohibited. User agrees to respect copyright about this document, mainly text integrity and source mention. Full content of copyright policy is available at Copyright policy

Available at: http://hdl.handle.net/2078.1/5237
Article 1 – Nuclear factor-kappaB (NF-κB) is constitutively activated in peritoneal endometriosis

Chapter III: Is the NF-κB pathway activated in peritoneal endometriosis in women?

1. Article 1: Nuclear factor-kappaB (NF-κB) is constitutively activated in peritoneal endometriosis

Nuclear factor-kappa B is constitutively activated in peritoneal endometriosis

Reinaldo González-Ramos1, Jacques Domez1,2, Sylvie Defrère3, Isabelle Leclercq2, Jean Squiffle4, Jean-Christophe Lousse1 and Anne Van Langendoen1

1Department of Gynecology, Université Catholique de Louvain, Clinique Universitaire B Lab, Avenue Hippocrate 10, 1200 Brussels, Belgium and 2Department of Internal Medicine, Gastroenterology Unit, Université Catholique de Louvain, Brussels, Belgium

*Correspondence address. Tel: +32-2-764-45-01; Fax: +32-2-764-05-07; E-mail: doomz@gun.ucl.ac.be


Running title: NF-κB and ICAM-1 in peritoneal endometriosis

Keywords: endometriosis / ICAM-1 / IkappaB / inflammation / NF-kappaB
Chapter IV: Involvement of NF-κB in the development of endometriotic lesions

1. Article 2: Agents blocking the nuclear factor-kappaB (NF-κB) pathway are effective inhibitors of endometriosis in an in vivo experimental model

Reinaldo González-Ramos¹, Anne Van Langendonckt¹, Sylvie Defrère¹, Jean-Christophe Lousse¹, Marcel Mettlen², Alain Guillet³ and Jacques Donnez¹. Gynecol Obstet Invest, in press.

¹ Department of Gynecology, Université Catholique de Louvain, Brussels, Belgium
² CELL Unit, Université Catholique de Louvain and Christian de Duve Institute of Cellular Pathology, Brussels, Belgium
³ Institute of Statistics, Université Catholique de Louvain, Louvain-La-Neuve, Belgium

Short title: Nuclear factor-κB inhibition reduces endometriosis in vivo

Keywords: apoptosis / BAY 11-7085 / cell proliferation / endometriosis / inflammatory response / ICAM-1 / NF-kappaB inhibition / nude mouse model / SN-50