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## **Uterine Natural Killer Cells Natural**

Uterine natural killer (uNK) cells make up approximately 70% of maternal lymphocytes during pregnancy, occupying both the decidua basalis of the endometrium at the implantation site and the mesometrial lymphoid aggregate of pregnancy (MLAp) that surrounds the blood vessels supplying the placenta. This number is at its peak in early pregnancy but declines at parturition.

## **Uterine natural killer cells - Wikipedia**

Uterine natural killer (uNK) cells are

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abundant in decidualized endometrium in early pregnancy; they surround spiral arteries and secrete a range of angiogenic growth factors. We hypothesized that uNK cells mediate the initial stages of spiral artery remodeling. uNK cells and extravillous trophoblast (EVT) cells were isolated from early pregnancy decidua and placenta.

## **Uterine natural killer cells initiate spiral artery ...**

Uterine Natural Killer Cells Uterine Adaptation Throughout Gestation. Uterine adaptation to pregnancy supports fetal growth by the formation of a... Maternal-fetal Interface. The development of the maternal-fetal interface is critical for the successful outcome of... NK Heterogeneity in the Uterus. ...

## **Frontiers | Uterine Natural Killer Cells | Immunology**

Recently, we demonstrated that successful transition of the cycling

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endometrium to a pregnancy state requires selective elimination of pro-inflammatory senescent decidual cells by activated uterine natural killer (uNK) cells.

## **Involvement of uterine natural killer cells in the natural ...**

Numerous decidual natural killer cells are found at the maternal-fetal interface in the placenta during early pregnancy. Zhou et al. identified a transcription factor called PBX1, which is present...

## **PBX1 expression in uterine natural killer cells drives ...**

Most of the uterine immune cells identified during pregnancy are natural killer (NK) cells. 3 These cells were classically named due to their capacity to eliminate target cells without previous...

## **The role of natural killer cells in the uterine ...**

Uterine Natural Killer Cells The natural

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killer cells in the uterus function in a different way. Natural killer cells that are found in the uterus are known as uterine natural killer cells, or uNK. They were originally considered a subset of “natural killer cells” because they too had a “bright” appearance under the electron microscope.

### **Natural Killer Cells and Infertility: What to Know**

Natural killer cells are a diverse group of cells that can be found in the blood and other areas of the body including the uterus. They earned the name “killer” cells because it was found that the type of natural killer cells found to circulate in the blood were able to bind to and kill certain cancer cells and virus infected cells.

### **Natural Killer - NK Cells - in Miscarriage and Infertility ...**

Natural Killer cells (identified by the surface marker CD56) are the dominant type of maternal immune cells that

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populate the uterine mucosa (the inner wall of the uterus) during formation of the placenta. These uterine NK cells are also present in the endometrium (uterine lining) of non-pregnant women, when under the control of ovarian hormones.

## **Natural Killer Cells - A Cause Of Recurrent Miscarriage ...**

Considerable attention has been given to the roles of uterine natural killer (uNK) cells in initiating decidual spiral arterial remodeling, a process normally completed by mid-gestation in mice and...

## **Leukocyte driven-decidual angiogenesis in early pregnancy ...**

Natural killer cells (NKs) are abundant in the human decidua, regulating trophoblast invasion and angiogenesis. Several diseases of poor placental development are associated with first pregnancies, so we thus looked to characterize differences in decidual NKs

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(dNKs) in first versus repeated pregnancy ...

## **Trained Memory of Human Uterine NK Cells Enhances Their ...**

The maternal lymphocytes at the uterine maternal-fetal interface that can recognize mismatched placental cells are T cells and abundant distinctive uterine NK (uNK) cells. Multiple mechanisms exist that avoid damaging T cell responses to the fetus, whereas activation of uNK cells is probably physiological.

## **Uterine NK cells: active regulators at the maternal-fetal ...**

Uterine NK cells were originally described as lymphocytes with natural cytotoxicity against tumor cells. It has, however, since long been established that NK cells are a lymphocyte population, separate from T and B cells, with cytotoxic and cytokine producing effector functions.

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## **Uterine NK cells and macrophages in pregnancy - ScienceDirect**

Abstract. The presence of unusual natural killer cells in human endometrium has been recognized for 30 years, but despite considerable research effort, the in vivo role of uterine natural killer (uNK) cells in both normal and pathological pregnancy remains uncertain. uNK cells may differentiate from precursors present in endometrium, but migration from peripheral blood in response to chemokine stimuli with in situ modification to a uNK cell phenotype is also possible. uNK cells produce a ...

## **Uterine natural killer cells: Time for a... | F1000Research**

Natural killer cells derived from pluripotent hematopoietic stem cells are important cells of the immune system that have two main functions: a cytolytic activity and a cytokine-producing capacity.



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## **Interactions Between Natural Killer Cells, Cortisol and ...**

Uterine natural killer (uNK) cells form the major leucocyte population in the endometrium at the time of implantation<sup>1</sup> and have received considerable attention in relation to their role in normal implantation and early placental development.

## **The Role of Natural Killer Cells in Human Fertility**

Endometrial natural killer (NK) cells were compared in luteal-phase endometrial samples from women with recurrent miscarriage and from normal subjects. Cryostat sections were labelled using a monoclonal antibody to CD56 using an avidin-biotin complex method and a morphometric study performed. Increased mean numbers of CD56+ cells were documented in the endometrium of women with recurrent early miscarriage only.

## **Endometrial CD56+ natural killer**

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## **cells in women with ...**

Natural killer cells directly kill senescent cells, and produce cytokines which activate macrophages which remove senescent cells. Natural killer cells can use NKG2D receptors to detect senescent cells, and kill those cells using perforin pore-forming cytolytic protein.

## **Natural killer cell - Wikipedia**

Sojka et al. Uterine Natural Killer Cells cells, and ILC1s, here referred to as uterine NK (uNK) cells to include all subsets (15,16). In this review we provide an overview of uNK cells, with a focus on mouse.

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