

FUNCTION CHANGES IN HEALTHY PARTICIPANTS PBMCs AFTER CO-CULTIVATION WITH PANCREATIC CANCER CELL

Aldona Jasukaitiene

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Poster

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Healthy donor PBMCs co-cultivated with pancreatic cancer cells showed a strong negative correlation between AHR and PD1 expression, alongside enhanced inflammatory and phagocytic responses, suggesting AHR modulation may be relevant for PDAC immunotherapy.

KEY POINTS

- In healthy volunteers, PBMC co-cultivation with BxPC3 pancreatic cancer cells for 20 hours resulted in increased AHR, IL1b, IL6, and IL10 mRNA, with IL6 significantly upregulated, while PD1 and IL4 mRNA decreased.
- AHR expression strongly negatively correlated with PD1 expression in healthy PBMCs after indirect interaction with cancer cells.
- Co-cultivation led to decreased M1 monocytes and NK cells but increased M0 monocytes and cytotoxic T lymphocytes, with more intensive phagocytic activity and NO production.
- The authors conclude that AHR relations with immune response differ between healthy participants and cancer patients, and that AHR modulation may be important as an additional PDAC treatment strategy.
- This experimental study using n=11 healthy donor samples may interest researchers investigating immune checkpoint regulation and novel immunotherapy targets in pancreatic cancer.

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