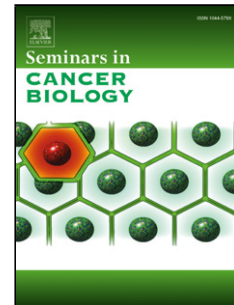


## Accepted Manuscript

Title: Epigenetics in Ovarian Cancer

Authors: Yanina Natanzon, Ellen L. Goode, Julie M. Cunningham



PII: S1044-579X(17)30062-7  
DOI: <http://dx.doi.org/doi:10.1016/j.semcancer.2017.08.003>  
Reference: YSCBI 1368

To appear in: *Seminars in Cancer Biology*

Received date: 21-4-2017  
Revised date: 1-8-2017  
Accepted date: 2-8-2017

Please cite this article as: Natanzon Yanina, Goode Ellen L, Cunningham Julie M. Epigenetics in Ovarian Cancer. *Seminars in Cancer Biology* <http://dx.doi.org/10.1016/j.semcancer.2017.08.003>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Epigenetics in Ovarian Cancer

Yanina Natanzon<sup>1</sup>, Ellen L. Goode<sup>1</sup> and Julie M. Cunningham<sup>2\*</sup>

<sup>1</sup> Department of Health Sciences Research, Mayo Clinic, Rochester, Minnesota, USA

<sup>2</sup> Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota, USA

\*Corresponding author: Julie M. Cunningham, Department of Laboratory Medicine and Pathology, Mayo Clinic, 200 1<sup>st</sup> St. S.W., Rochester, Minnesota, USA; [cunningham.julie@mayo.edu](mailto:cunningham.julie@mayo.edu); telephone 1 507 538 6863, Fax 1 507 266 0340

### **Abstract**

Ovarian cancer is a disease with a poor prognosis and little progress has been made to improve treatment. It is now recognized that there are several histotypes of ovarian cancer, each with distinct epidemiologic and genomic characteristics. Cancer therapy is moving beyond classical chemotherapy to include epigenetic approaches. Epigenetics is the dynamic regulation of gene expression by DNA methylation and histone post translational modification in response to environmental cues. Improvement in technology to study DNA methylation has enabled a more agnostic approach and, with larger samples sets, has begun to unravel how epigenetics contributes to the etiology, response to chemotherapy and prognosis in of ovarian cancer. Investigations into histone modifications in ovarian cancer are more nascent. Much more is needed to be done to fully realize the potential that epigenetics holds for ovarian cancer clinical care.

Download English Version:

<https://daneshyari.com/en/article/8361749>

Download Persian Version:

<https://daneshyari.com/article/8361749>

[Daneshyari.com](https://daneshyari.com)