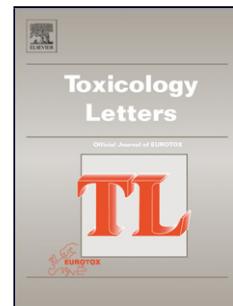


Accepted Manuscript

Title: Early postnatal exposure to endosulfan interferes with the normal development of the male rat mammary gland

Authors: Gabriela A. Altamirano, Melisa B. Delconte, Ayelen L. Gomez, Ramiro Alarcón, Verónica L. Bosquiazzo, Enrique H. Luque, Mónica Muñoz-de-Toro, Laura Kass



PII: S0378-4274(17)31344-9

DOI: <http://dx.doi.org/10.1016/j.toxlet.2017.09.012>

Reference: TOXLET 9956

To appear in: *Toxicology Letters*

Received date: 13-7-2017

Revised date: 12-9-2017

Accepted date: 17-9-2017

Please cite this article as: Altamirano, Gabriela A., Delconte, Melisa B., Gomez, Ayelen L., Alarcón, Ramiro, Bosquiazzo, Verónica L., Luque, Enrique H., Muñoz-de-Toro, Mónica, Kass, Laura, Early postnatal exposure to endosulfan interferes with the normal development of the male rat mammary gland. *Toxicology Letters* <http://dx.doi.org/10.1016/j.toxlet.2017.09.012>

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.

TITLE: Early postnatal exposure to endosulfan interferes with the normal development of the male rat mammary gland

Gabriela A. Altamirano^{a,b*}; Melisa B. Delconte^{a*}; Ayelen L. Gomez^{a,b}, Ramiro Alarcón^{a,c}, Verónica L. Bosquiazzo^{a,d}, Enrique H. Luque^{a,c}, Mónica Muñoz-de-Toro^{a,b}, Laura Kass^{a,b}

^aInstituto de Salud y Ambiente del Litoral (ISAL, UNL-CONICET), Facultad de Bioquímica y Ciencias Biológicas, Universidad Nacional del Litoral, Santa Fe, Argentina.

^bCátedra de Patología Humana, Facultad de Bioquímica y Ciencias Biológicas, Universidad Nacional del Litoral, Santa Fe, Argentina.

^cCátedra de Fisiología Humana, Facultad de Bioquímica y Ciencias Biológicas, Universidad Nacional del Litoral, Santa Fe, Argentina.

^dDepartamento de Bioquímica Clínica y Cuantitativa, Facultad de Bioquímica y Ciencias Biológicas, Universidad Nacional del Litoral, Santa Fe, Argentina.

* These authors contributed equally to the work.

CORRESPONDING AUTHOR: Dr. Laura Kass, Instituto de Salud y Ambiente del Litoral (ISAL, UNL-CONICET), Facultad de Bioquímica y Ciencias Biológicas, Universidad Nacional del Litoral, Ciudad Universitaria, Paraje El Pozo, Casilla de Correo 242, (3000) Santa Fe, Argentina. TEL/FAX: 54 342 4575207. E-MAIL: lkass@fbcb.unl.edu.ar

Highlights

- Neonatal exposure to endosulfan accelerates mammary gland development in male rats
- Endosulfan induces hyperplastic lesions in alveoli and ducts in males
- Endosulfan decreases mammary gland androgen receptor expression in post-pubertal males

ABSTRACT

Download English Version:

<https://daneshyari.com/en/article/5562003>

Download Persian Version:

<https://daneshyari.com/article/5562003>

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