



OME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Journal of Andrology, Vol 18, Issue 6 623-636, Copyright © 1997 by The American Society of Andrology

JOURNAL ARTICLE

Morphometric and immunocytochemical study of the fetal, infant, and adult human vas deferens

J. Regadera, G. Espana, M. A. Roias, J. A. Recio, M. Nistal and C. A. Suarez-Quian Department of Morphology, School of Medicine, Autonomous University of Madrid, Spain.

The human vas deferens (VD) is often considered simply as a conduit to transfer mature sperm from the epididymis to the ejaculatory duct. The cells that make up the epithelium of the VD, however, exhibit many characteristics of cells found in more complex epithelia, which are involved in absorption and/or secretion. In the present

This Article

- Full Text (PDF)
- Alert me when this article is cited
- Alert me if a correction is posted

Services

- ▶ Similar articles in this journal
- ▶ Similar articles in PubMed
- Alert me to new issues of the journal
- ▶ Download to citation manager

Citing Articles

- Citing Articles via HighWire
- Liting Articles via Google Scholar

Google Scholar

- Articles by Regadera, J.
- Articles by Suarez-Quian, C. A.
- Search for Related Content

PubMed

- PubMed Citation
- Articles by Regadera, J.
- Articles by Suarez-Quian, C. A.

investigation, morphometry was utilized to characterize in detail the changes incurred by the human VD during its development, growth, and aging and to determine if these changes correlate with testicular maturation. In addition, the specific types of keratins present in the epithelial cells were defined, as well as desmin distribution in the muscular layers, during the various phases of the development, growth, and involution of the human VD. Results of the morphometric study are consistent with the interpretation that the development, growth, and aging of the VD are delayed, but parallel to, the identical phases exhibited by the human testis. Further, a differential expression of distinct keratin types was observed in the VD during the various phases examined in this study. Taken together, these two correlations may suggest that the VD is unlikely to function solely as a conduit for sperm. The rationale for this interpretation is as follows: 1) the complex developmental and maturational changes measured in the present investigation in the human VD are common to other absorptive and/or secretory epithelia; and 2) these changes parallel developmental changes observed in other androgen-dependent epithelia of the male reproductive tract, which also function to contribute components to seminal fluid as well as to provide a conduit for sperm.

This article has been cited by other articles:



BIOLOGY of REPRODUCTION

▶HOME

F. Pierucci-Alves and B. D. Schultz Bradykinin-Stimulated Cyclooxygenase Activity Stimulates Vas Deferens Epithelial Anion Secretion In Vitro in Swine and Humans Biol Reprod, September 1, 2008; 79(3): 501 - 509.

[Abstract] [Full Text] [PDF]



Am. J. Physiol: Cell Physiology

HOME

R. W. Carlin, R. L. Sedlacek, R. R. Quesnell, F. Pierucci-Alves, D. M. Grieger, and B. D. Schultz

PVD9902, a porcine vas deferens epithelial cell line that exhibits neurotransmitter-stimulated anion secretion and expresses numerous HCO3- transporters

Am J Physiol Cell Physiol, June 1, 2006; 290(6): C1560 - C1571. [Abstract] [Full Text] [PDF]



Molecular Biology of the Cell

HOME

F. A. Wald, A. S. Oriolo, M. L. Casanova, and P. J.I. Salas Intermediate Filaments Interact with Dormant Ezrin in Intestinal **Epithelial Cells**

Mol. Biol. Cell, September 1, 2005; 16(9): 4096 - 4107.

[Abstract] [Full Text] [PDF]



Journal of ANDROLOGY

HOME

S. Andonian, K. Jarvi, A. Zini, and L. Hermo Ultrastructural Features of the Vas Deferens From Patients Undergoing Vasectomy and Vasectomy Reversal J Androl, September 1, 2002; 23(5): 691 - 701. [Abstract] [Full Text] [PDF]



Am. J. Physiol: Renal Physiology

HOME

R. L. Sedlacek, R. W. Carlin, A. K. Singh, and B. D. Schultz Neurotransmitter-stimulated ion transport by cultured porcine vas deferens epithelium

Am J Physiol Renal Physiol, September 1, 2001; 281(3): F557 - F570. [Abstract] [Full Text] [PDF]



Endocrinology

HOME

N. Atanassova, C. McKinnell, K. Williams, K. J. Turner, J. S. Fisher, P. T. K. Saunders, M. R. Millar, and R. M. Sharpe

Age-, Cell- and Region-Specific Immunoexpression of Estrogen Receptor { { alpha } } (But Not Estrogen Receptor { beta }) during Postnatal Development of the Epididymis and Vas Deferens of the Rat and Disruption of This Pattern by Neonatal Treatment with Diethylstilbestrol

Endocrinology, February 1, 2001; 142(2): 874 - 886.

[Abstract] [Full Text] [PDF]

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Copyright © 1997 by The American Society of Andrology.