NEWSLETTER

This newsletter centers on reproductive topics with a genetics focus. If there is an organization or upcoming webinar you'd like me to include in a future newsletter, please feel free to reach out at genetics@modernreproduction.org.

Sign up for the newsletter here

To Watch:

TRANSLOCATION RISK CALCULATOR PRESENTATION

Dr. Trunca and her team developed a calculator to assess the chance of miscarriage and ongoing, affected pregnancy for translocation carriers.

On Demand

UNPACKING THE FDA'S NEW PROPOSED RULE FOR LABORATORY DEVELOPED TESTS

On Demand

ISSUE 22

NEWSLETTER

The little lit review

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Telomere length: a marker for reproductive aging?

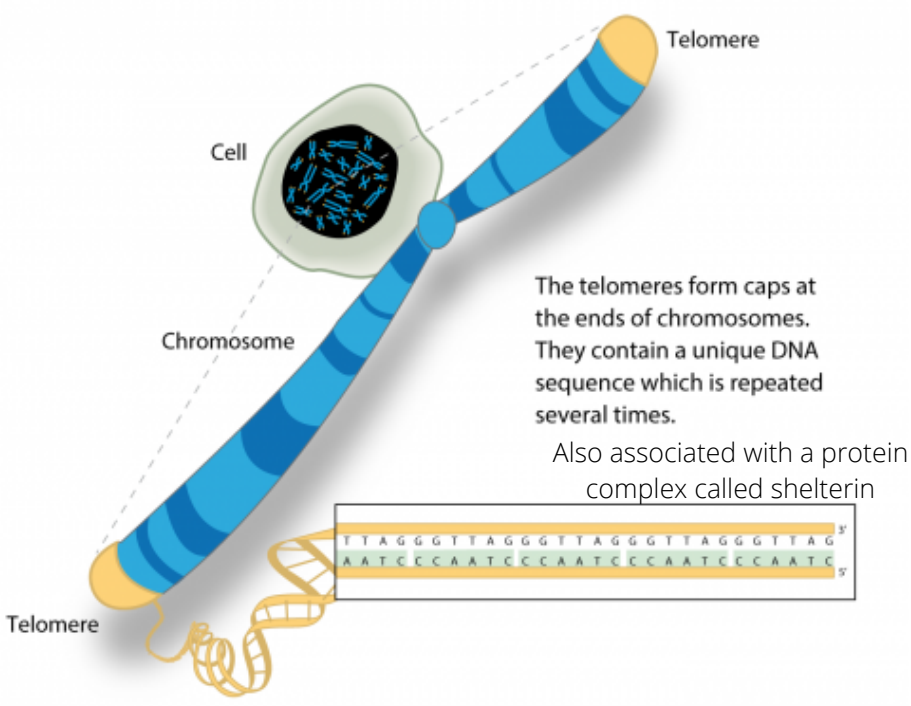
Paul Pirtea, M.D., David L. Keefe, M.D.,Jean Marc Ayoubi, M.D., Ph.D.,and Dominique de Ziegler, M.D., Ph.D

The authors emphasize the importance of having a reliable way to determine oocyte quality in order to determine the best treatment course of action. In this paper, they explore telemere length as a marker and the possibility of telomerase enhancing therapies.

More research is needed in this area. There are direct to consumer tests to evaluate the length of telomeres, but there are not interventions available.

Overall, it's more of a story of how important our environment and health impacts our reproduction. While every time a cell divides, the telomere gets shorter until it is no longer present at which point the cell dies. It can also shorten "from exposure to endogenous and environmental factors, such as reactive oxygen species (ROS), cigarette smoke, toxins, and chronic psychological stress."

Exercise may lengthen telomeres in oocytes. Overweight men have shortern sperm telomere lengths compared to healthy weighted men. So, eat healthy, exercise, avoid toxins and stress says the telomere this time.



NEWSLETTER

The tests that exist

Instead of another article review, I wanted to highlight two tests that exist. When I say exist, it is not an endorsement of the test, rather to bring up that a group of individuals have come together to create the assessment and a lab has released it into the wild. The first being the infertility gene panel by Igenomix and the second is the assessment of autoantibodies found in the bloodstream of a mother to detect autism chances by MARAbio. Infertility gene panel is an exciting option as not receiving a cause can be frustrating, among other feelings. I'd be curious to know the clinical utility of this test. Regarding MARAbio's evaluation, I learned about it via a post and from the concerns of autism advocates. *I'm not sure if these tests are available yet in the US.

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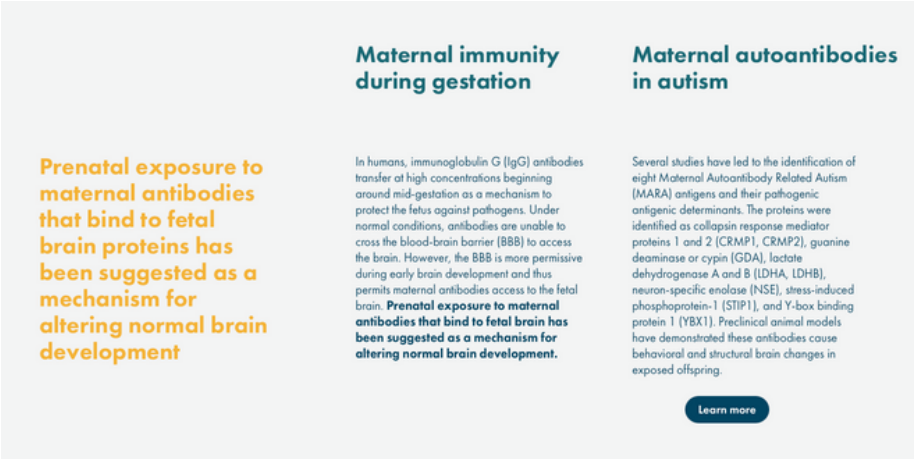
2



NEWSLETTER

Community Content:

Super excited for Fertility Out Loud's latest Youtube series on 4 couples' journey with infertility.

Modern Reproduction Content:

I think in the near future I will reorganize the blog - I'd like to highlight "guides" and primary topics above "secondary" topics. If anyone has suggestions of how to organize the content or any particular posts, please let me know :)

Welcome to the blog. The below are posts to discuss the relative topics in reproduction.