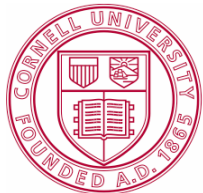


Functional Assay for Male Fertility—Applications for Assisted Reproduction and Contraceptive Development

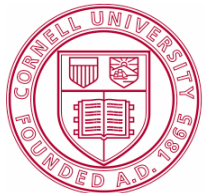
Alexander J. Travis VMD, PhD
Associate Professor of Reproductive Biology



Business Overview

Seeking funding & management to establish a market leader dedicated to male factor fertility

- **Short-Term Product Opportunity:**
 - Functional assay of sperm for use in:
 - human assisted reproduction (\$3 ba market)
 - Sperm cryopreservation (market opportunity under assessment)
 - Development of more effective semen extenders (market opportunity under assessment)
- **Pipeline Opportunities:**
 - Spermicides as topical contraceptives for use in:
 - condoms (\$4 ba market),
 - lubricants
 - female sponge (>250 ma units sold)



What is the value of the assay?

Human Assisted Reproduction

During initial screen of couples:

- assist clinicians counsel patients toward IVF (in vitro fertilization) or ICSI (intra-cytoplasmic sperm injection)

On the day of IVF:

- ensure functional sperm to address day-to-day variability of sperm function

To Couples

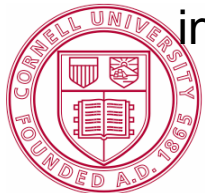
Avoid physical, emotional, & financial costs with failed cycles

- highly significant as maternal age increases

To IVF Clinics

Increasing IVF/ICSI success means

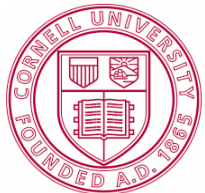
- Advantage over other clinics
- Increase in price for IVF/ICSI
- Increase in demand



IP

Full US patent: # 7,160,676 “Use of gangliosides as markers for lipid sub-domains in sperm: Applications for diagnosing male reproductive potential and assessing the effect of semen extenders and cryopreservation agents/protocols on sperm”

Additional patent opportunities to follow related to the topical contraceptive and semen extender applications, and to kits for carrying out the male fertility diagnostic assay



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