



Contribution ID: 653

Type: **Talk (preferred)**

## **Optical Tweezers for IVF: an *in vitro* study of reproductive cells and their environment**

*Monday, 12 December 2022 14:15 (15 minutes)*

Using optical tweezers for the better understanding of how the microrheology of reproductive cells and their local environment during *in vitro* procedures is correlated to embryo development, implantation success, pregnancy, and live birth.

**Primary author:** CAMPUGAN, Carl Adrian (University of Adelaide)

**Co-authors:** Prof. WRIGHT, Amanda (University of Nottingham); Dr SCHARTNER, Erik (University of Adelaide); Dr BRUCE, Graham (University of St. Andrews); Prof. DHOLAKIA, Kishan (University of St. Andrews); Dr DUNNING, Kylie (University of Adelaide); Dr MENDONCA, Tania (University of Nottingham); Dr ARITA, Yoshiko (University of St. Andrews)

**Presenter:** CAMPUGAN, Carl Adrian (University of Adelaide)

**Session Classification:** Australian and New Zealand Conference on Optics and Photonics

**Track Classification:** ANZCOP: ANZCOP: Biophotonics