CHRISTIAN S. OTTOLINI

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Personal Information:

Nationality: Australia and UK
Residence: Italy

Education and Qualifications:

Royal College of Pathologists, London, UK
Diplomat of Royal College of Pathologists, (DipRCPath, Reproductive Biology) 2021
University of Kent, Canterbury, UK
PhD (Genetics – School of Biosciences) 2015
University of Western Australia, Perth, Australia
Bachelor of Science (Human Biology) 2005

Profile:

Dr Ottolini is a globally respected clinical scientist and embryologist, blending expertise in genetics with a passion for assisted reproductive technology. Conceived through IVF himself, his journey inspires his pursuits to advance our understanding of human fertility and drive improvements in fertility care. As Head of Embryology at Juno Genetics, he leads with innovation, shaping the future of reproductive genetic testing.

Employment History:

Juno Genetics
Head of Embryology
Rome, Italy
[March 2023 - Current]
The Evewell (Group)
Laboratory Director and Person Responsible to the HFEA
London, UK
[June 2018 - February 2023]
The Bridge Centre (London Women's Clinic)
Senior Embryologist and Laboratory Manager for Preimplantation Genetics
London, UK
[October 2009 - May 2018]
PIVET Medical Centre
Clinical Embryologist
Perth, Western Australia
[January 2006 - October 2009]

Academic Affiliations:

University College London
Honorary Research Fellow, Department of Maternal and Foetal Medicine
London, UK
[April 2021 - Current]
University of Kent
Honorary Lecturer, School of Biosciences
Canterbury, Kent, UK
[March 2017 - March 2021]

Selected publications:

ORCID: 0000-0001-8200-378X (https://orcid.org/0000-0001-8200-378X)

1. McCoy RC, Summers MC, McCollin A, **Ottolini CS**, Ahuja K, Handyside AH. Meiotic and mitotic aneuploidies drive arrest of in vitro fertilized human preimplantation embryos. Genome Med. 2023 Oct 2;15(1):77. doi: 10.1186/s13073-023-01231-1.
2. Picchetta L, **Ottolini CS**, O'Neill HC, Capalbo A. Investigating the significance of segmental aneuploidy findings in preimplantation embryos. F S Sci. 2023 May;4(2S):17-26. doi: 10.1016/j.xfss.2023.03.004.
3. Handyside AH, McCollin A, Summers MC, **Ottolini CS**. Copy number analysis of meiotic and postzygotic mitotic aneuploidies in trophectoderm cells biopsied at the blastocyst stage and arrested embryos. Prenat Diagn. 2020 Aug 24. doi: 10.1002/pd.5816.
4. McCollin A, Swann RL, Summers MC, Handyside AH, **Ottolini CS**. Abnormal cleavage and developmental arrest of human preimplantation embryos in vitro.Eur J Med Genet. 2019 Apr 14. pii: S1769-7212(19)30129-6. doi: 10.1016/j.ejmg.2019.04.008.

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5. **Ottolini CS**, Kitchen J, Xanthopoulou L, Gordon T, Summers MC, Handyside AH. Tripolar mitosis and partitioning of the genome arrests human preimplantation development in vitro. Sci Rep. 2017 Aug 29;7(1):9744. doi: 10.1038/s41598-017-09693-1.
6. **Ottolini CS**, Capalbo A, Newnham L, Cimadomo D, Natesan SA, Hoffmann ER, Ubaldi FM, Rienzi L, Handyside AH. Generation of meiomaps of genome-wide recombination and chromosome segregation in human oocytes. Nat Protoc. 2016 Jul;11(7):1229-43. doi: 10.1038/nprot.2016.075.2
7. Capalbo A, ***Ottolini CS**, Griffin DK, Ubaldi FM, Handyside AH, Rienzi L. Artificial oocyte activation with calcium ionophore does not cause a widespread increase in chromosome segregation errors in the second meiotic division of the oocyte. Fertil Steril. 2016 Mar;105(3):807-14.e2. doi: 10.1016/j.fertnstert.2015.11.017. ***Joint First Author**
8. **Ottolini CS**, Rogers S, Sage K, Summers MC, Capalbo A, Griffin DK, Sarasa J, Wells D, Handyside AH. Karyomapping identifies second polar body DNA persisting to the blastocyst stage: implications for embryo biopsy. Reprod Biomed Online. 2015 Dec;31(6):776-82. doi: 10.1016/j.rbmo.2015.07.005.
9. **Ottolini CS**, Newnham LJ, Capalbo A, Natesan SA, Joshi HA, Cimadomo D, Griffin DK, Sage K, Summers MC, Thornhill AR, Housworth E, Herbert AD, Rienzi L, Ubaldi FM, Handyside AH, Hoffmann ER. Genome-wide maps of recombination and chromosome segregation in human oocytes and embryos show selection for maternal recombination rates. Nat Genet. 2015 Jul;47(7):727-35. doi:10.1038/ng.3306.
10. **Ottolini C**, Rienzi L, Capalbo A. A cautionary note against embryo aneuploidy risk assessment using time-lapse imaging. Reprod Biomed Online. 2014 Mar;28(3):273-5. doi: 10.1016/j.rbmo.2013.10.015.

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