Bourn Hall
FERTILITY CLINIC

Journal Publications

2020	Initiation of a conserved trophectoderm program in human, cow and mouse embryos	Gerri C, McCarthy A, Alanis-Lobato G et al.	Nature, 23 September 2020. DOI:10.1038/s41586-020-2759-x 2020
2020	Parental genome unification is highly erroneous in mammalian embryos	T Cavazza, AZ Politi, P Aldag et al.	bioRxiv preprint doi: https://doi.org/10.1101/2020.08.27.269779.
2020	IGF1-mediated human embryonic stem cell self-renewal recapitulates the embryonic niche	S Waimatha, KJ Grybel, G Alanis-Lobato et al.	Nature Communications, 11:764, February 2020
2020	Epigenetic remodelling of chromatin in human ART: addressing deficiencies in culture media (Review)	Y Menezo and K Elder	Journal of Assisted Reproduction and Genetics 37, 1781-1788, July 2020
2020	COVID-19 screening during fertility treatment: How do guidelines compare against each other?	A Papathanasiou	Journal of Assisted Reproduction and Genetics July 2020
2019	Meiotic Kinetochores Fragment into Multiple Lobes upon Cohesin Loss in Aging Eggs	A Zielinska, E Bellou, N Sharma et al.	Current Biology 29, 3749–3765
2019	The negative impact of the environment on methylation/ epigenetic marking in gametes and embryos:A plea for action to protect the fertility of future generations	Y Menezo, K Elder, B Dale	Molecular Reproduction and Development 86:1273–1282
2019	Chromosome errors in human eggs shape natural fertility over reproductive life span	J Gruhn, A Zielinska, V Shukula et al (2019)	Science 365(6460):1466-1469 DOI: 10.1126/science.aav7321
2018	Management of the sub-fertile couple in Primary care	A Papathanasiou, N Mawal, M Edris	The British Journal of Family Medicine Sept-Oct 2018
2017	Re-freezing of embryos: Is it worth another chance?	Charikleia Papanikou	The Embryologist, Spring 2017
2017	Genome editing reveals	N Fogarty A Mccarthy, K	Nature, Year Published: (2017) Volume

	a role for OCT4 in human embryogenesis	Snijders, B Powell, N Kubikova, P Blakeley, Lea R, **K Elder,** S Wamaitha, D Kim, V Maciulyte, J Kleinjung, J Kim, D Wells, A Bertero, J Turner, K Niakan	Number: 550, Article Number: 67-73
2017	Let's Slow Down the Race for Oocyte Donation: A Plea for Better Management of Young Women with Reduced Ovarian Reserve	D Cornet, S Alvarez,, L Jacquesson-Fournols , M Cohen, **K Elder**, Y Ménézo	J Gynecol Women's Health 4(4): JGWH.MS.ID.555646
2017	Time to re-evaluate ART protocols in the light of advances in knowledge about methylation and epigenetic: an opinion paper	Y Menezo, B Dale, **K Elder**	Human Fertility, April 2017
2016	Oxidative stress and alterations in DNA methylation: two sides of the same coin in reproduction	Y Menezo, E Silvestris, B Dale, **K Elder**	Reproductive Biomedicine Online 33 (6), 668-683
2016	Isolation and expression of the human gametocyte-specific factor 1 gene (GTSF1) in fetal ovary, oocytes and preimplantation embryos	J Huntriss, J Lu, K Hemmings, R Bayne, R Anderson, A Rutherford, A Balen **K Elder**, H M Picton	J Assist Preprod Genet 2016 Sep 19. Epub 2016 2016 Sep 19: doi:10.1007/s10815-016-0795-0
2016	Who benefits from PGS?	B Dale, Y Menezo**, K Elder**	Austin J In Vitro Fertiliz. 2016; 3(1): 1026-7
2016	Observational studies, statistical tests and bias arising from case-control comparisons	**A Papathanasiou**	Human Reproduction 31(1), 219-220
2016	Trends in 'poor	**A Papathanasiou**, BJ Searle,	Human Reproduction Update

	responder' research: lessons learned from RCTs in assisted conception	NMA King, S Bhattacharya	02/02/2016
2015	Sister kinetochore splitting and precocious disintegration of bivalents could explain the maternal age effect	A Zielinska, Z Holubcova, **M Blayney, K Elder**, M Schuh	elife2015;10.7554/eLife.11389
2015	Defining the three cell lineages of the human blastocyst by single-cell RNA-seq	P Blakeley, NME Fogarty, I del Valle, T X Hu, **K Elder, P Snell, L Christie**, P Robson, K Niakan	Development 2015 142:3151-3165; doi: 10.1242/dev.123547 dev.biologists.org/content/142/18/3151.full.pdf
2015	A link between increased prevalence of ASD syndromes and oxidative stress, DNA methylation and imprinting: the impact of the environment	Ménézo YR, **Elder K**, Dale B	JAMA Pediatr. Published online September 28,2015.doi:1001/jamapediatrics.2015.2125
2015	Deoxyribonucleic acid methylation profiling of single human blastocysts by methylated CpG-island amplification coupled with CpG-island microarray	Huntriss J, Hemmings K, Baskaran P, Hazelwood L, **Elder K**, Virtanen C, Miller D, Picton HM	Fertility & Sterility 103 (6), 1566 – 1571. doi:10.1016/j.fertnstert.2015.03.020
2015	Human Oocytes: Error-prone chromosome mediated spindle assembly favours chromosome segregation defect in human oocytes	Holubcova Z, **Elder K, Blayney M** & Schuh, M	Science 348(6239):1143-7. Awarded the prize for Best Oral Presentation on a basic science topic at ESHRE (Lisbon), June 2015
2015	The Oldham Notebooks: an analysis of the development of IVF 1969–1978. I. Introduction, materials and methods	**Elder K**, Johnson MH	Reprod Biomedicine & Society Online 1(1), 3-8
2015	The Oldham Notebooks:	**Elder K**, Johnson MH	Reprod Biomedicine & Society Online

	an analysis of the development of IVF 1969–1978. II. The treatment cycles and their outcomes		1(1), 9-18
2015	The Oldham Notebooks: an analysis of the development of IVF 1969–1978. III. Variations in procedures	**Elder K**, Johnson MH	Reprod Biomedicine & Society Online 1(1), 19-33
2015	The Oldham Notebooks: an analysis of the development of IVF 1969–1978. IV. Ethical aspects	Johnson MH, **Elder K**	Reprod Biomedicine & Society Online 1(1), 34-45
2015	The Oldham Notebooks: an analysis of the development of IVF 1969–1978. V. The role of Jean Purdy re-assessed	Johnson MH, **Elder K**	Reprod Biomedicine & Society Online 1(1), 46-57
2015	Prognostic Factors for IVF Success: Diagnostic Testing and Evidence-Based Interventions	**Papathanasiou A**, Bhattacharya S	Semin Reprod Med 33, 65–76
2014	Deep vein thrombosis and acute renal insufficiency after in vitro fertilization in a medically complicated patient	**Papathanasiou A,** Kalampokas T, Maheshwari A.	Fertil Sci Res [serial online] 2014 [cited 2015 Aug 20];1:104-8
2014	Morphological assessment of embryo quality during assisted reproduction: A systematic review	**Papathanasiou A, Osmani B,** Teoh PJ, Maheshwari A	Fertil Sci Res [serial online] 2014 [cited 2015 Aug 20];1:67-80
2014	The oviduct: a neglected organ due for re-assessment in IVF	Ménézo YR, Guerin P, **Elder K**	RBMonline 30 (3), 233-240
2014	Rheotaxis facilitates upstream navigation of mammalian sperm cells	Vasily, Dunkel J, **Blayney M**, Goldstein RE	elife 2014;3:e02403
2013	New insights into	Y. Ménézo, I.	JARG 30(3):293-303

	human pre-implantation metabolism in vivo and in vitro	Lichtblau, **K.Elder**	
2013	Variable imprinting of the MEST gene in human preimplantation embryos	Huntriss JD, Hemmings KE, Hinkins M, Rutherford AJ, Sturmey RG, **Elder K**, Picton HM	Eur J Hum Genet. 21 (1):40-7
2012	Human hypoblast formation is not dependent on FGF signalling	Roode M, Blair K, **Snell P, Elder K**, Marchant S, Smith A, Nichols J	Dev Biol. 361 (2): 358-63
2012	Culture Systems: embryo co-culture	Menezo YJ, Servy E, Veiga A, Hazout A, **Elder K**	Methods Mol Biol. 912, 231-47
2012	Embryos under surveillance!	**Kay Elder**	RBM Online 25 (4), 337-338
2011	Autism, imprinting and epigenetic disorders: a metabolic syndrome linked to anomalies in homocysteine recycling starting in early life??	Y Ménézo, P Mares, M Cohen, M Brack, S Viville, **K Elder**	JARG 28(12),1143-5
2011	Global DNA Methylation Profiling of Single Human Blastocysts on CpG Island Arrays	Huntriss, J, **Elder, K**, Hemmings, K, Miller, D, HM (2011)	Human Fertility 14 (2), 131-146. Awarded Best Overall Scientific Presentation, British Fertility Society Annual Meeting, Dublin, Jan. 2011
2010	Egg sharing for assisted conception: a window on oocyte quality	Faddy M, **Elder K**, Gosden R	RBM Online (2011) 22,88-93
2010	DNA methylation and gene expression in IVF	Menezo Y, **Elder K**, Benkhalifa M, Dale B	RBM Online 20 (6), 709-710
2010	Quantitative Methylation Analysis of Multiple Imprinted Gene Differentially Methylated Regions in Single Human Blastocysts by Pyrosequencing	Huntriss, J, Woodfine, K, Huddlestone, J , Murrell A, Rutherford, A, **Elder, K**, Hemmings, K, Picton, HM	Fertility and Sterility 95, 2564–2567

2009	Length of androgen receptor-CAG repeats in fertile and infertile Egyptian men.	Badran WA, Fahmy I, Abdel-Megid WM, **Elder K**, Mansour R, Kent-First M	J Androl. 2009 30(4):416-25
2008	The rates of de novo meiotic deletions and duplications causing genomic disorders in the male germline.	Turner DJ, Miretti M, Rajan D, Fiegler H, Carter NP, **Blayney ML**, Beck S Hurles ME	Nature Genetics, 2008 Jan 40 (1):90-5
2008	Impact of gonadotrophin stimulation for assisted reproductive technology on ovarian ageing and menopause	**K Elder, T Mathews**, E Kutner, E Kim, D Espenberg, M Faddy, R Gosden	RBMonline 16 (5), 611-616
2008	Responsibility and accountability of authors and co-authors.	T Tulandi, **K Elder**, J Cohen	RBMonline 16 (6), 763/764
2008	Optimal follicle and oocyte numbers for cryopreservation of all embryos in IVF cycles at risk of OHSS	**GR Verwoerd, T Mathews, P Brinsden**	RBMonline 17 (3), 312-317
2007	Meet our Deputy Editor	**Elder KT**	RBMonline 16(5), 607
2006	Explaining success rates in IVF	**Elder, KT**	Capital Doctor 50, 17-18
2006	Infection control in the IVF laboratory.	**Elder, KT**	Embryo Talk 1,1:36-42
2006	Treatment strategies in assisted reproduction for women of advanced maternal age	CM Howles, C-H Kim, **K Elder**	Int Surg 91:S37-S54
2006	Soluble HLA-G release by the human embryo: An interesting artefact ?	Y Ménézo, **K Elder** and S Viville	RBMonline 13 (6), 763-764
2006	Case report: Unusual presentation of a woman with polycystic ovaries and complex endometrial pathology.	**K Marikinti**	RBMonline 12 (1), 39-42
2005	'The presence of blood in the transfer catheter	**Marikinti K, Brinsden PR**	Hum Reprod. 20(7), 2029-30.

	negatively influences outcome at embryo transfer'.		
2005	Implantation failures: success with quarter laser zona thinning assisted hatching	Petersen CG, Mauri AL, Baruffi RL, Oliveira JBA, Massaro FC, **Elder K** and Franco Jr JG	RBMonline, 10(2), 224-229
2005	Oocyte number per live birth in IVF: were Steptoe and Edwards less wasteful?	Inge, G., **Brinsden, PR, Elder, KT**	Human Reproduction, 20(3): 588-59
2004	Cytoplasmic transfer in oocytes: biochemical aspects	Levy, R, **Elder, K**, & Menezo, Y	Human Reproduction Update 10:1-10
2004	IVF laboratory cleaning protocols.	**Elder, KT**, Elliott, T	JARG 21:63-64
2003	Effect of position of the meiotic spindle on the outcome of intracytoplasmic sperm injection	**Avery, S, Blayney, ML**	Human Fertility. 6 19-22.
2003	Choosing the right embryo: towards single embryo transfer	**Elder, KT**	Journal of the Federation of Latin American Fertility Societies (FLASEF), (translated into Spanish)
2003	Quality control in ART	**Elder, KT**, Kastrop, P	Journal of the Federation of Latin American Fertility Societies (FLASEF), (translated into Spanish)
2003	Controlling the high order multiple birth rate:the European perspective	**Brinsden PR**	RBMonline 6(3), 339-344.
2002	Livebirth resulting from emergency TESE, after unexpected three consecutive total necrozoospermic samples on day of oocyte recovery: a case	**Marcus, SF, Blayney, ML, Louis, E, Burnley, A, Brinsden, P**	Middle East Fertility Society Journal. 7(2), 145-148.

	report.		
2001	A physiological replacement for polyvinylpyrrolidone (PVP) in assisted reproductive technology	Barak, Y., Menezo, Y., Veiga, A., and **Elder, K.**	Human Fertility 4, 99-103
2000	Treatment by in vitro fertilisation with surrogacy: experience of one British centre	**Brinsden, P. R**., Appleton, T. C., Murray, E., Hussein, M., **Akagbosu, F.**	BMJ 320 (1) Education and Debate
2000	Has clinical practice been changed by the Human Fertilisation and Embryology Act 1990?	**Brinsden, P. R.**	Human Fertility 3, 116-12
2000	The case for routine HIV screening before IVF treatment: A survey of UK IVF centre policies	**Marcus S F, Avery S M, Abusheikha N, Marchus N K, and Brinsden P**	Human Reproduction 15 (8) 1657-1661
1999	How useful is cervical dilation in patients with cervical stenosis who are participating in an in vitro fertilization-embryo transfer program? The Bourn Hall experience	**Abusheikha N, Lass A, Akagbosu, F, Brinsden, P**	Fertility and Sterility 72 (4)
1999	Letters to the Editor The effect of a difficult embryo transfer on the outcome of IVF	**Lass, L, (1999)**	Human Reproduction vol 14 no 9 pp 2417-2420 1999
1999	The effect of a difficult embryo transfer on the outcome of IVF	**Lass, A, Abusheikha, N, Brinsden, P**	Hum Reprod Update 5 (3) 256-266
1999	Cancer Patients should be offered semen cryopreservation	**Lass, A**	BMJ 318, 5 June
1999	The role of ovarian volume in reproductive medicine	**Lass, A, Brinsden, P**	Hum Reprod Update 5 (3) 256-266
1998	A programme of semen cryopreservation for patients with malignant	**Lass, A, Akagbosu, F, Blayney, M, Avery, S, Brinsden, P, et al**	Hum Reprod 13 (11) 3256-3261

	disease in a tertiary infertility centre: lessons from 8 years' experience		
1998	Electron Microscopy of Cryopreserved Human Spermatozoa, (Abstract),	Avery, S, Morris, GJ, **Blayney, ML**	Hum Reprod 13 (1), 279
1997	Transrectal electroejaculation combined with in-vitro fertilization: effective treatment of anejaculatory infertility due to spinal cord injury	**Brinsden, PR, Avery, S, Marcus, S, Macnamee, M**	Hum Reprod 12 (12) 2687-2692
1996	Human embryo freezing: current conditions and concerns	**Brinsden, PR**	Br. J. of Obs & Gynae 102, 767-772
1995	The prediction of ectopic pregancy after in-vitro Fertilization and embryo transfer	**Marcus, SF, Macnamee, M, and Brinsden, P**	Hum Reprod 10 (8) 2165 – 2168
1995	Diagnosis, prevention and management of ovarian hyperstimulation syndrome	**Brinsden, P**, Balen A et al	Br. J. of Obs & Gynae 102, 767-772
1995	An evaluation of the effect of Pentoxyphilline on sperm function and treatment outcome of male-factor infertility: A preliminary study.	Fountain, S, Rizk, P, Avery, S, Palmer, C, Blayney, M, Mills, C, Brinsden, P	JARG 12 (10), 704-9
1995	Sucessful use of Pentoxyphilline in male-factor infertility and previous failure of fertilization: A prospective randomized study.	Rizk, B, Fountain, S, Avery, S, **Blayney, M**, Macnamee, M, Mills, C, Brinsden, P	JARG 12 (10), 710-14

1995	Stage specific expression of cytokine and receptor messenger ribonucleic acids in human preimplantation embryos.	Sharkey, A, Dellow, K, **Blayney, M**, Charnock-Jones, S, Smith, S	Biology of Reproduction 53 (4): 974-81
1994	Tuberculous Infertility and in vitro Fertilization	**Marcus, SF**, Rizk, B, **Fountain, S, Brinsden, P**	Am. J of Obs & Gynae 171 (6), 1593 – 1596
1994	Birth characteristics and perinatal outcome of babies conceived from cryopreserved embryos	**Wada, I, Macnamee, MC, Wick, K, Bradfield, JM, Brinsden, PR**	Hum Reprod 9 (3) 543-546 1994
1994	Clinical experience with highly purified FSH. Newsletter: Gonadotrophin for the 90's	**Brinsden, PR**	Excerpta Medica Asia Ltd vol 1 no.1
1994	High rates of pregnancy after long-term down-regulation of women with severe endometriosis	**Marcus, SF, Edwards, RG**	Am. J. of Obs & Gynae Vol 171 (3) 812 -817
1993	Comparative trial between an ultra-short and long protocol of luteinizing hormone-releasing hormone agonist for ovarian stimulation in in-vitro Fertilization	**Marcus, SF, Brinsden, PR, Macnamee, M, Rainsbury, PA, Elder, KT, Edwards, RG**	Hum Reprod 8 (2) 238- 243
1992	Pronuclear, cleavage and blastocyst histories in the attempted preimplantation diagnosis of the human hydatidiform mole	**Edwards, RG, Crow, J, Dale, S, Macnamee, MC, Hartshorne, GM, Brinsden, P**	Hum Reprod 7, 994-998
1991	Replacement of frozen-thawed embryos in artificial and natural cycles: A prospective semi-randomized study	**Sathanandan, M, Macnamee, MC, Rainsbury, R, Wick, K, Brinsden, P, Edwards, RG**	Hum Reprod 6 (5) 685-687
1991	Perinatal outcome and congenital	**Rizk, B, Doyle, P, Tan, SL, Rainsbury, P, Betts, J,**	Hum Reprod 6 (9) 1259-1264

	malformations in in-vitro fertilization babies from the Bourn-Hallam group	**Brinsden, P, Edwards, R**	
1991	The influence of in vitro development upon post-thaw survival and implantation of cryopreserved human blastocysts	**Hartshorne, GM, Elder, K, Crow, J, Dyson, H, Edwards, RG**	Hum Reprod 6, 136-41
1991	Intercellular Communication in the Early Human Embryo	Dale, B, **Elder, K** et al	Mol. Reprod. and Development 29, 22-28
1990	Case Report Rare ectopic pregnancies after in-vitro fertilization: one unilaterla twin and four bilateral tubal pregnancies	Rizk B, **Morcos S, Avery S, Elder K, Brinsden P, Mason B, Edwards RG**	Hum Reprod. 5 (8) 1025-1028
1990	Seminal plasma anti-sperm antibodies and IVF: the effect of semen sample collection into 50% serum	**Elder, KT, Wick, KL & Edwards, RG**	Hum. Reprod.. 5, 179-84
1990	Effect of cell number at freezing upon survival and viability of cleaving embryos generated from stimulated IVF cycles.	**Hartshorne, GM, Wick, K, Elder, K, Dyson, H**	Human Reprod. 5, 857-61
1990	Predictive Value of LH Concentration for Obtaining a Pregnancy going to Term	**Macnamee, M**	Extrait des Actualities Gynecologiques Vingtieme Serie
1990	In vitro fertilization and development of one of two human oocytes with fused zonae pellucidae: case report.	**Hartshorne, GM, Blayney, ML, Dyson, H, Elder, K**	Fertility and sterility 54 (5):947-9.
1989	The role of IVF in Polycystic ovarian	**Macnamee, M**	Research and clinical forums, 11, 89-95

	disease		
1989	The use of Albuminar 5 ™ as a medium supplement in clinical IVF	**Ashwood-Smith MJ, Hollands P, Edwards RG**	Human Reprod 4(6) 702-705
1989	Short term luteinising hormone agonist treatment, prospective trial of a novel ovarian stimulation regimen for in vitro fertilization	**Macnamee MC, Howles CM, Edwards RG et al**	Fertil. Steril. 52 264-269
1988	The Influence of stimulation regimes and luteal phase support on the outcome of IVF	**Macnamee MC, Edwards RG, Howles CM**	Hum Reprod 3 Suppl 2, 43 – 52 1988
1987	Pregnancies afrer IVF when high tonic LH is reduced by long-term treatment with GnRH agonists	**Macnamee MC, Howles CM, Edwards RG**	Hum Reprod. 2:569
1987	Follicular development and early luteal function of conception and non-concepted cycles after human in vitro fertilization	**Howles, CM, Macnamee, MC, Edwards, RG**	Hum Reprod. 2, 17-21
1986	Observations on 767 clinical pregnancies and 500 births after human in-vitro fertilization	**Steptoe et al**	Download PDF
1986	Factors Affecting Survival and Implantation of Cryopreserv ed Human Embryos	**Cohen, J, Simons, RS, Fehilly C B, Edwards RG**	J IVF & ET 3 (1)
1986	Effect of high tonic levels of luteinizing hormone on outcome of in vitro fertilization	**Howles, CM, Macnamee, MC, Edwards, RG, Goswamy, R, Steptoe, PC**	Lancet, 2, 521-522
1986	Observations on 767 clinical pregnancies and 500 live births after	**Steptoe, PC, Edwards, RG**, Walters, DE	Human Reproduction, 1, 89-94

	human in vitro fertilisation		
1985	Treatment of idiopathic infertility, cervical mucus hostility, and male infertility: artificial insemination with husband's semen or in vitro fertilization?	**Hewitt, J, Cohen, J, Krishnaswamy, V, Fehilly, CB, Steptoe, PC,** Walter, DE	Fertility and Sterility 44 (3), 350-5
1985	Seminal Bacterial pathogens and in Vitro Fertilization – Short Communications	**Hewitt, J, Cohen, J, Fehilly, CB**, et al	J IVF ET 2 (2), 105-107
1985	Pregnancies following the frozen storage of expanding human blastocysts	**Cohen, J, Simons, RF, Edwards R G, Fehilly CB, Fishel SB**	J IVF ET 2, 59-64
1985	In vitro fertilisation: a treatment for male infertility	**Cohen, J, Edwards, RG, Fehilly, C, Fishel, S, Hewitt, J, Purdy, J, Rowland, G, Steptoe, PC, Webster, J**	Lancet 1 1239
1984	Human Chorionic Gonadotropin Secreted by Preimplantation Embryos Cultured in vitro	**Fishel SB, Edwards RG, Evans CJ**	Science 223, 816-818
1984	Factors influencing the success of in vitro fertilisation for alleviating human infertility	E**dwards, RG, Fishel, SG, Cohen, J, Fehilly, CB, Purdy, JM, Steptoe, PC, Webster, JM**	J IVF & ET, 1, 3-23
1983	Current Status of In-Vitro Fertilisation and Implantation of Human Embryos	**Edwards, RG, Steptoe, PC**	The Lancet – Saturday 3 December 1983
1978	Birth after the reimplantation of a human embryo (letter)	**Steptoe, PC, Edwards, RG**	Lancet, 2, 366
1976	Reimplantation of a human embryo with subsequent tubal pregnancy	**Steptoe, PC, Edwards, RG**	Lancet, 1. 880-882

1969	Laparoscopy: Diagnostic and Therapeutic Uses	**Steptoe, PC**	Proceedings of the Royal Society of Medicine May 1969 vol 62 No 5 pp 439-441