Dr. Katz-Jaffe Peer-Reviewed Publications


Denomme MM, McCallie BR, Parks JC, Schoolcraft WB and Katz-Jaffe MG (2016) Epigenetic dysregulation observed in monosomy blastocysts may contribute to their negligible implantation potential. PLOS One 11(6) e0156980.


Book Chapters


Katz MG, Cram DS, Trounson AO. ‘Development of single cell DNA fingerprinting for application in ART’ Australian Society of Reproductive Biology, April 2000.


Katz MG, Trounson AO, Cram DS. ‘Applications of DNA fingerprinting in pre-implantation diagnosis’ 4th International Symposium on Pre-implantation Genetics, April 2002.

Katz MG, Trounson AO, Cram DS. ‘Towards a better understanding of chromosomal mosaicism in human pre-implantation embryos’ Annual Meeting of the American Society of Reproductive Medicine, October 2002.


Cram DS, Mantzaris D, Katz-Jaffe MG. Retrieval of fetal cells from cervical mucus: potential for early genetic diagnosis? 13th World Congress on In vitro Fertilization Assisted Reproduction & Genetics, May 2005


Katz-Jaffe MG, Gardner DK, Schoolcraft WB. ‘A novel non-invasive means of identifying the protein production profile into the culture medium (secretome) of the human preimplantation embryo’ 61st Annual Meeting of the American Society of Reproductive Medicine, October 2005

Gardner DK, Linck DW, Schoolcraft WB, Katz-Jaffe MG. ‘Ammonium alters the proteome of cultured mouse blastocysts’ 61st Annual Meeting of the American Society of Reproductive Medicine, October 2005

Gardner DK, Linck DW, Schoolcraft WB, Katz-Jaffe MG. ‘Analysis of the proteome and secretome of the preimplantation mouse embryo cultured with either recombinant human albumin or human serum albumin’ 61st Annual Meeting of the American Society of Reproductive Medicine, October 2005

Katz-Jaffe MG, Gardner DK, Schoolcraft WB. ‘Proteomic analysis of individual human blastocysts’ 61st Annual Meeting of the American Society of Reproductive Medicine, October 2005

Katz-Jaffe MG, Sheehan CB, Schoolcraft WB, Gardner DK. ‘Slow freezing alters the proteome of mouse oocytes’ 61st Annual Meeting of the American Society of Reproductive Medicine, October 2005

Katz-Jaffe MG, Sheehan CB, Schoolcraft WB, Gardner DK. ‘Protein expression profile (secretome) of individual cumulus oocyte complexes during IVM in the mouse is affected by FSH’ Annual Conference of the International Embryo Transfer Society, January 2006

Sheehan CB, Katz-Jaffe MG, Schoolcraft WB, Gardner DK. ‘Exogenous gonadotropins alter the proteome of metaphase II mouse oocytes’ 62nd Annual Meeting of the American Society of Reproductive Medicine, October 2006

Katz-Jaffe MG, Stevens J, Keams W, Gardner DK, Schoolcraft WB ‘Relationship between embryonic secretome and chromosomal abnormalities in human IVF’ 62nd Annual Meeting of the American Society of Reproductive Medicine, October 2006


Katz-Jaffe MG, Stevens JM, Kearns WG, Gardner DK, Schoolcraft WB. ‘Trophectoderm Biopsy and PGS is Feasible in Frozen Blastocyst Transfers’ 63rd Annual Meeting of the American Society of Reproductive Medicine, October 2007

Gardner DK, Hamilton B, McCallie B, Stevens J, Schoolcraft WB, Katz-Jaffe MG. ‘Ammonium build up in the culture medium alters human embryonic metabolism and gene expression’ 63rd Annual Meeting of the American Society of Reproductive Medicine, October 2007

Katz-Jaffe MG, McCallie BR, Filipovits JA, Schoolcraft WB, Gardner DK. ‘Etiology of infertility affects subsequent blastocyst transcriptome’ 63rd Annual Meeting of the American Society of Reproductive Medicine, October 2007


Wells D, Fragouli E, Stevens J, Munne S, Schoolcraft WB, Katz-Jaffe, MG. ‘High pregnancy rate after comprehensive chromosomal screening of blastocysts’ 64th Annual Meeting of the American Society of Reproductive Medicine, November 2008


Katz-Jaffe MG, Fagouli E, Filipovits J, Wells D, Schoolcraft WB. ‘Relationship between the human blastocyst secretome and chromosomal constitution’ 64th Annual Meeting of the American Society of Reproductive Medicine, November 2008

Johnson MT, Vang P, Katz-Jaffe MG, McCallie BR, Gardner DK. ‘Evaluation of prematurational development and interventions to improve meiotic maturation of oocytes deficient in pyruvate dehydrogenase’ 64th Annual Meeting of the American Society of Reproductive Medicine, November 2008
Fragouli E, Gutierrez C, Katz-Jaffe MG, Schoolcraft WB, Munne S, Wells D. ‘Comprehensive aneuploidy screening of oocytes: scientific data and clinical application’ 64th Annual Meeting of the American Society of Reproductive Medicine, November 2008

Fragouli E, Katz-Jaffe MG, Schoolcraft WB, Ross R, Munne S, Wells D. Comprehensive cytogenetic analysis of the human blastocyst stage’ 64th Annual Meeting of the American Society of Reproductive Medicine, November 2008

Schlenker T, Stevens J, Rawlins M, McCormick S, Katz-Jaffe MG, Schoolcraft WB. ‘Blastocyst vitrification following trophectoderm biopsy yields excellent survival rates’ 64th Annual Meeting of the American Society of Reproductive Medicine, November 2008

Katz-Jaffe MG, McCallie BR, Treff NR, Miller KA, Scott RT, Schoolcraft WB. ‘A novel profile of cumulus cell transcripts is associated with oocyte aneuploidy’ 64th Annual Meeting of the American Society of Reproductive Medicine, November 2008

Cook-Andersen H, Stevens JM, Schoolcraft WB, Katz-Jaffe MG. ‘Male factor infertility and the incidence of chromosomally complex embryos’ 64th Annual Meeting of the American Society of Reproductive Medicine, November 2008

Fragouli E, Goodall N, Katz-Jaffe MG, Schoolcraft WB, Munne S, Wells D. ‘The role of aneuploidy in repeated implantation failure: implications for patient counseling and preimplantation genetic screening’ 64th Annual Meeting of the American Society of Reproductive Medicine, November 2008


Schoolcraft WB, Surrey E, Minjarez D, Gustofson R, Stevens JM, Katz-Jaffe MG. ‘Towards single blastocyst transfer for infertile women in their early forties’ 65th Annual Meeting of the American Society of Reproductive Medicine, October 2009

Janesch A, Parks JC, Stevens JM, Schoolcraft WB, Katz-Jaffe MG. ‘Poor ovarian response is associated with an altered cumulus cell proteome’ 65th Annual Meeting of the American Society of Reproductive Medicine, October 2009

McCallie B, Parks JC, Janesch A, Stevens JM, Schoolcraft WB, Katz-Jaffe MG. ‘Stability of microRNA in cumulus cells relative to embryo development’ 65th Annual Meeting of the American Society of Reproductive Medicine, October 2009


Young D, Linden M, Stevens JM, Schoolcraft WB, Katz-Jaffe MG. ‘Impact of aneuploidy following unexplained recurrent miscarriage’ 65th Annual Meeting of the American Society of Reproductive Medicine, October 2009

Katz-Jaffe MG, McCallie B, Schoolcraft WB. ‘Association between altered blastocyst microRNA profiles and human infertility’ 65th Annual Meeting of the American Society of Reproductive Medicine, October 2009

Parks JC, McCallie B, Janesch A, Schoolcraft WB, Katz-Jaffe MG. ‘Mammalian trophectoderm gene expression is a predictor of IVF outcome’ 65th Annual Meeting of the American Society of Reproductive Medicine, October 2009

McReynolds S, Janesch A, Parks JC, Schoolcraft WB, Katz-Jaffe MG. ‘Mammalian oocyte proteome relative to mid-reproductive age’ 65th Annual Meeting of the American Society of Reproductive Medicine, October 2009

Parks JC, McCallie B, Li Q, Matzuk M, Schoolcraft WB, Katz-Jaffe MG. ‘Effect of exogenous paracrine factors during human oocyte in vitro maturation’ 65th Annual Meeting of the American Society of Reproductive Medicine, October 2009


Schlenker T, Stevens JM, Rawlins M, McCormick S, Katz-Jaffe MG, Schoolcraft WB. ‘Clinical success with vitrification following trophectoderm biopsy for comprehensive chromosomal screening’ 65th Annual Meeting of the American Society of Reproductive Medicine, October 2009

McCallie B, Filipovits J, Gardner DK, Schoolcraft WB, Katz-Jaffe MG. ‘Human trophectoderm transcriptome at the time of implantation’ 65th Annual Meeting of the American Society of Reproductive Medicine, October 2009
M. Katz-Jaffe, J Stevens, S McCormick, R Smith, W.B. Schoolcraft 'Relationship between cleavage stage morphology and comprehensive chromosome constitution' 26th Annual meeting of the European Society of Human Reproduction and Embryology, July 2010


John Crocker, Blair McCallie, William B Schoolcraft and Mandy Katz-Jaffe. 'Developmental impact of the absence of single non-essential amino acids during mammalian embryo culture' 43rd Annual Meeting of the Society for the Study of Reproduction, July 2010

Stevens JM, Surrey E, Minjarez D, Gustofson R, Schoolcraft WB, Katz-Jaffe MG. 'Comprehensive chromosome screening significantly improves implantation rates following frozen blastocyst transfer' 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

Schoolcraft WB, Treff N, Ferry K, Stevens JM, Katz-Jaffe MG, Scott R. 'First clinical application of SNP microarray based 24 chromosome aneuploidy screening of human blastocysts' 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

McCormick S, Stevens JM, Rawlins M, Smith R, Schoolcraft WB, Katz-Jaffe MG. 'Day 5 blastocyst morphology correlates with comprehensive chromosome constitution and outcome' 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

McReynolds S, Kiemele L, Stevens JM, Hansen K, Schoolcraft WB, Katz-Jaffe MG. 'Non-invasive blastocyst secretome analysis reflects comprehensive chromosome aneuploidy' 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

Schlenker T, Stevens JM, Rawlins M, McCormick S, Katz-Jaffe MG, Schoolcraft WB. 'Healthy deliveries following vitrification of biopsied blastocysts' 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

Young D, Linden M, Stevens JM, Kearns W, Schoolcraft WB, Katz-Jaffe MG. 'Direct association between unbalanced sperm and embryos among male translocation carriers’ 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

Smith R, Stevens JM, Schlenker T, McCormick S, Schoolcraft WB, Katz-Jaffe MG. 'Sibling immature oocytes exhibit higher rates of chromosomal aneuploidies' 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010
Katz-Jaffe MG, Surrey E, Minjarez D, Gustofson R, Stevens JM, Schoolcraft WB. ‘Normal ovarian reserve does not predict a lower incidence of comprehensive chromosome aneuploidies’ 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

Schlenker T, Stevens JM, Katz-Jaffe MG, Schoolcraft WB. ‘The efficiency of oocyte vitrification for donor oocyte cycles and oocyte banking in ART’ 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

Janesch A, McCallie B, Crocker J, Stevens JM, Schoolcraft WB, Katz-Jaffe MG. ‘Differential sperm RNA profiles are associated with subsequent blastocyst development’ 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

Crocker J, McReynolds S, Borgeson J, Thompson C, Schoolcraft WB, Katz-Jaffe MG. ‘Sperm proteomic profiles reflect the occurrence of DNA fragmentation’ 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

Loper R, Treff N, Parks JC, Scott R, Schoolcraft WB, Katz-Jaffe MG. ‘Alterations of mitotic checkpoint genes play a role in embryonic chromosome mosaicism’ 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

McCallie B, Parks JC, Janesch A, Stevens JM, Schoolcraft WB, Katz-Jaffe MG. ‘Altered cumulus cell transcripts in association with non-viable outcome’ 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010

Parks JC, McCallie B, Janesch A, Schoolcraft WB, Katz-Jaffe MG. ‘Implication of complement and coagulation cascade in spontaneous early pregnancy loss’ 66th Annual Meeting of the American Society of Reproductive Medicine, October 2010


Stevens J, Loper R, Buttermore H, Surrey E, Schoolcraft WB, Katz-Jaffe MG. ‘Repeat CCS cycles will typically result in some euploid blastocysts for transfer in women of advanced maternal age’ 67th Annual Meeting of the American Society of Reproductive Medicine, October 2011

Katz-Jaffe MG, Crocker J, Parks JC. ‘Advanced paternal age negatively impacts reproductive outcome’ 67th Annual Meeting of the American Society of Reproductive Medicine, October 2011

McReynolds S, Mitchell S, Dzieciatkowska M, Hansen D, Schoolcraft WB, Katz-Jaffe MG. ‘The molecular signature of cumulus cells is compromised in infertile women of advanced maternal age’ 67th Annual Meeting of the American Society of Reproductive Medicine, October 2011

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Strieby A, McCallie B, Minjarez D, Katz-Jaffe MG. ‘Expression of DNA repair genes in blastocysts derived from infertile women with PCOS’ 67th Annual Meeting of the American Society of Reproductive Medicine, October 2011

Schoolcraft WB, Schlenker T, Surrey E, Minjarez D, Gustofson R, Katz-Jaffe MG. ‘Single blastocyst transfer after comprehensive chromosome screening and vitrification results in improved clinical outcome’ 67th Annual Meeting of the American Society of Reproductive Medicine, October 2011

Katz-Jaffe MG, Surrey E, Minjarez D, Gustofson R, Stevens JM, Schoolcraft WB. ‘Abnormal ovarian reserve predicts a higher incidence of aneuploid blastocysts’ 67th Annual Meeting of the American Society of Reproductive Medicine, October 2011

Blair McCallie, Robyn Loper, Holly Buttermore, William B Schoolcraft, Mandy Katz-Jaffe. ‘Apoptosis is not the mechanism for embryo self correction of aneuploidy at the blastocyst stage’ The American Society of Human Genetics 61st Annual Meeting, October 2011

Alyssa Strieby, Jason C Parks, Blair R McCallie, William B Schoolcraft, Mandy G Katz-Jaffe. ‘Expression of critical developmental genes is impacted by the age of the oocyte’ 68th Annual Meeting of the American Society of Reproductive Medicine, October 2012

Shane Mitchell, Mary Linden, Danielle Young, Nathan Treff, William B Schoolcraft and Mandy G Katz-Jaffe. ‘The incidence of chromosome errors differs at the preimplantation stage from that observed later in pregnancy’ 68th Annual Meeting of the American Society of Reproductive Medicine, October 2012


Lauren Roth, Blair R McCallie, Ruben Alvero, William B Schoolcraft, Debra Minjarez, Mandy G Katz-Jaffe ‘Human follicular fluid contains abundant microRNAs some of which are altered in expression with polycystic ovarian syndrome’ 68th Annual Meeting of the American Society of Reproductive Medicine, October 2012

William B Schoolcraft, Eric Surrey, Debra Minjarez, Robert L Gustofson, Richard T Scott Jr and Mandy G Katz-Jaffe ‘Comprehensive chromosome screening (CCS) with vitrification results in improved clinical outcome in women >35 years: a randomized control trial’ 68th Annual Meeting of the American Society of Reproductive Medicine, October 2012

Sue McCormick, John Stevens, Robin Smith, Richard T Scott Jr, William B Schoolcraft, Mandy G Katz-Jaffe ‘Unexplained recurrent miscarriage: can preimplantation comprehensive chromosome screening (CCS) improve outcomes?’ 68th Annual Meeting of the American Society of Reproductive Medicine, October 2012
M.G. Katz-Jaffe, S McReynolds, J. Stevens, M. Dzieciatkowska, K. Hansen, W.B. Schoolcraft. ‘Protein secretome profiles reliably distinguish embryonic stages of development and predict successful IVF outcome’ 68th Annual Meeting of the American Society of Reproductive Medicine, October 2012

Susanna McReynolds, Monika Dzieciatkowska, Kirk C Hansen, William B Schoolcraft, Mandy G Katz-Jaffe ‘Alterations in the sperm proteome may identify idiopathic infertility and poor IVF outcome’ 68th Annual Meeting of the American Society of Reproductive Medicine, October 2012

John Stevens, Mary Rawlins, Ann Janesch, Nathan Treff, William B Schoolcraft, Mandy G Katz-Jaffe ‘Time lapse observation of embryo development identifies later stage morphology based parameters associated with blastocyst quality but not chromosome constitution’ 68th Annual Meeting of the American Society of Reproductive Medicine, October 2012

Nathan Treff, Mandy Katz-Jaffe, Richard T Scott Jr, William B Schoolcraft ‘Ongoing pregnancy rate after trophectoderm (TE) biopsy, blastocyst vitrification, and simultaneous single gene disorder (SGD) and comprehensive chromosomal aneuploidy screening (CCS)’ 68th Annual Meeting of the American Society of Reproductive Medicine, October 2012

Eric Forman, Nathan Treff, John Stevens, Mandy Katz-Jaffe, Richard T Scott Jr, William B Schoolcraft ‘Embryos whose polar bodies (PBS) had a reciprocal chromosomal abnormality are almost always euploid, as a result of correction of premature separation of sister chromatids (PSSC)’ 68th Annual Meeting of the American Society of Reproductive Medicine, October 2012


Mandy G Katz-Jaffe, Blair McCallie, John Stevens, William Schoolcraft ‘Involvement of sperm miRNAs in unidentified male factor infertility’ The American Society of Human Genetics 62nd Annual Meeting, October 2012

Alyssa Strieby, Blair McCallie, Jason Parks, William B Schoolcraft, Mandy G Katz-Jaffe ‘Blastocysts derived from women of advanced maternal age have compromised gene expression profiles that may impact their implantation potential but do not influence the endometrial transcriptome’ 69th Annual Meeting of the American Society of Reproductive Medicine, October 2013

Susanna McReynolds, Monika Dzieciatkowska, Blair McCallie, Kirk C Hansen, William B Schoolcraft, Mandy G Katz-Jaffe ‘Cumulus cell protein expression reflects oocyte chromosome constitution’ 69th Annual Meeting of the American Society of Reproductive Medicine, October 2013

Susanna McReynolds, John Stevens, William Schoolcraft, Mandy G Katz-Jaffe ‘Cytokine profiling of the human blastocyst secretome revealed expression of IL-6, IL-8 and TNF- α’ 69th Annual Meeting of the American Society of Reproductive Medicine, October 2013

Jason C Parks, Susanna McReynolds, Blair R McCallie, Alyssa Strieby, William B Schoolcraft, Mandy G Katz-Jaffe ‘The molecular profile of uterine secretions is predictive of endometrial
Regulation of DNA methylation in human blastocysts is associated with chromosomal monosomy and decreased implantation potential. Blair R McCallie, Jason C Parks, Alyssa Strieby, Shane Mitchell, William B Schoolcraft, Mandy G Katz-Jaffe

Discovery of fertility biomarkers in the dominant follicle from a natural cycle. William B Schoolcraft, Susanna McReynolds, Jason C Parks, Monika Dzieciatkowska, Kirk C Hansen, Mandy G Katz-Jaffe

No embryo gender bias is observed following blastocyst comprehensive chromosome screening. John Stevens, Megan Schweitz, Ashley Geka, Shane Mitchell, William B Schoolcraft, Mandy G Katz-Jaffe

Elevated BMI is not associated with increased chromosomal aneuploidy or poor IVF outcome following blastocyst comprehensive chromosome screening and a frozen embryo transfer. Megan Schweitz, Ashley Geka, John Stevens, William B Schoolcraft, Mandy G Katz-Jaffe

Can the transfer of euploid blastocysts in a frozen embryo transfer overcome repeated IVF failure? Mandy G Katz-Jaffe, Eric Surrey, Debra Minjarez, Robert L Gustofson, John Stevens and William B Schoolcraft

Time lapse observation during embryo development differentiates blastocyst quality but not chromosome constitution or gender. Ann Schneiderman, Jason Parks, Shane Mitchell, John Stevens, William B Schoolcraft and Mandy G Katz-Jaffe

Low AMH levels do not predict a higher incidence of aneuploid blastocysts in young infertility patients (<35 years). Sue McCormick, Mary Linden, Danielle Young, Diane Klepacka, William B Schoolcraft, Mandy G Katz-Jaffe

Oocyte vitrification is a viable reproductive option for women seeking fertility preservation. Terry Schlenker, John Stevens, Robin Smith, Mary Rawlins, Mandy G Katz-Jaffe, William Schoolcraft

Transfer of warmed euploid blastocysts significantly improves live birth rates for infertility patients of advanced maternal age (>35 years). William B Schoolcraft, Eric Surrey, Debra Minjarez, Robert L Gustofson, Richard T Scott Jr and Mandy G Katz-Jaffe

SNP array intensity analysis of the 1st polar body (PB1) can reliably identify premature separation of sister chromatids (PSSC) in meiosis I (MI): a blinded validation study. Eric Forman, Nathan Treff, Mandy Katz-Jaffe, Richard T Scott Jr, William B Schoolcraft
Megan Schweitz, Susanna McReynolds, William B Schoolcraft and Mandy G Katz-Jaffe. The frequency, type and classification of chromosome errors differs at the preimplantation stage from that observed during pregnancy. The American Society of Human Genetics 64th Annual Meeting, October 2014

Jason C Parks, Blair McCallie, Alyssa Strieby, Susanna McReynolds, William B Schoolcraft, Mandy G Katz-Jaffe. Non-invasive omics analysis of endometrial secretions 24 hours prior to frozen embryo transfer is predictive of implantation outcome. 70th Annual Meeting of the American Society of Reproductive Medicine, October 2014

Jason E Swain, Mandy G Katz-Jaffe, John Stevens, William B Schoolcraft. Extending ovarian stimulation in patients with diminished ovarian reserve beyond normal trigger criteria of two follicles ≥18mm increases oocyte yield and maturity but not fertilization rates. 70th Annual Meeting of the American Society of Reproductive Medicine, October 2014

Blair R McCallie, Alyssa Strieby, Jason C Parks, William B Schoolcraft, Mandy G Katz-Jaffe. Individual corona cell RNA sequencing revealed transcripts associated with oocyte competence and live birth. 70th Annual Meeting of the American Society of Reproductive Medicine, October 2014

Blair R McCallie, Jason C Parks, Alyssa Strieby, William B Schoolcraft, Mandy G Katz-Jaffe. Hypomethylation of monosomy chromosomes may reflect decreased implantation potential. 70th Annual Meeting of the American Society of Reproductive Medicine, October 2014

Diane Klepacka, Danielle Young, Laura Brzeskiewicz, William B Schoolcraft, Mandy G Katz-Jaffe. Infertility patients with chromosome inversions are susceptible to an inter-chromosomal effect. 70th Annual Meeting of the American Society of Reproductive Medicine, October 2014

Alyssa Strieby, Blair R McCallie, Jason C Parks, William B Schoolcraft, Mandy G Katz-Jaffe. Blastocysts from women of advanced maternal age have compromised transcription of key implantation and development genes. 70th Annual Meeting of the American Society of Reproductive Medicine, October 2014

Sue McCormick, John Stevens, Ann Schneiderman, Robin Smith, William B Schoolcraft, Mandy G Katz-Jaffe. Chromosome errors involving large metacentric and submetacentric chromosomes are more common in young infertility patients. 70th Annual Meeting of the American Society of Reproductive Medicine, October 2014

Mandy G Katz-Jaffe, Jason C Parks, Blair R McCallie, Alyssa Strieby, William B Schoolcraft. Infertility diagnosis has a significant impact on the developing blastocyst’s transcriptome. 70th Annual Meeting of the American Society of Reproductive Medicine, October 2014

Jason C Parks, Alyssa L Patton, Blair R McCallie, Darren K Griffin, William B Schoolcraft, Mandy G Katz-Jaffe. Secreted endometrial microRNA gene regulators are critical for successful embryo implantation. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015

Alyssa L Patton, Blair R McCallie, Jason C Parks, William B Schoolcraft, Mandy G Katz-Jaffe. Exosome bound micrornas transcriptionally regulate embryo-endometrial dialogue impacting implantation potential for AMA patients. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015
Blair R McCallie, Jason C Parks, Alyssa L Patton, Darren K Griffin, William B Schoolcraft, Mandy G Katz-Jaffe. Chaotic human blastocysts display altered microRNA regulation promoting downstream apoptotic gene transcription leading to embryo arrest. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015

Brian Hixon, Jason C Parks, John Stevens, William B Schoolcraft, Mandy G Katz-Jaffe. Time lapse kinetic markers enable early identification of developmentally delayed euploid blastocysts. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015

April E Batcheller, John Stevens, Jason E Swain, William B Schoolcraft, Mandy G Katz-Jaffe. Zygote accumulation for chromosomal screening achieves ongoing clinical pregnancies for diminished ovarian reserve patients with previous IVF failure. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015

John Stevens, Sue McCormick, Ann Schneiderman, William B Schoolcraft, Mandy G Katz-Jaffe. Pregnancy loss is significantly increased in male factor oligoasthenozoospermia patients despite the transfer of a euploid blastocyst. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015

Susanna McReynolds, Megan Schweitz, Danielle Young, Diane Klepacka, William B Schoolcraft, Mandy G Katz-Jaffe. The incidence of chaotic blastocysts in women ≥40 years old dramatically increases, while single errors decrease, as a result of severe chromosome instability. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015

L. A. Kondapalli, R. Collins, W. B. Schoolcraft, M. Katz-Jaffe. Perinatal outcomes among IVF singletons are reassuring after comprehensive chromosomal screening and frozen blastocyst transfer. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015


Michelle M Denomme Tignanelli, William B Schoolcraft, Mandy Katz-Jaffe. Epigenetic dysregulation observed in monosomy blastocysts may contribute to their negligible implantation potential. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015

Mandy G Katz-Jaffe, Eric Surrey, Debra Minjarez, Robert L Gustofson, Laxmi Kondapalli, John Stevens, William B Schoolcraft. Single euploid blastocyst transfer is a viable clinical option for AMA patients up to 42 years: analysis of 1,000 consecutive single frozen embryo transfers. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015

J.E. Swain, W.B. Schoolcraft, MG Katz-Jaffe. Dual trophectoderm biopsy on the same blastocyst does not impair clinical outcomes. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015
Megan Schweitz, Susanna McReynolds, Marla McGarvey, John Stevens, William B Schoolcraft, Mandy G Katz-Jaffe. The impact of comprehensive chromosome screening on embryo selection of day 5 blastocysts. 71st Annual Meeting of the American Society of Reproductive Medicine, October 2015


Michelle M Denomme Tignanelli, BR McCallie, JC Parks, WB Schoolcraft, MG Katz-Jaffe. Epigenetic dysregulation observed at imprinting control regions in aneuploid blastocysts may contribute to their compromised developmental potential. 49th Annual Meeting of the Society for the Study of Reproduction, July 2016

E.Surrey, M. Katz-Jaffe, L. Kondapalli, R. Gustofson, W. Schoolcraft. Prolonged administration of GNRH agonist (GNRHa) prior to embryo transfer in endometriosis (endo) and αβ3 integrin (int) negative patients undergoing in vitro fertilization-embryo transfer (IVF-ET): the impact of freeze-all cycles. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

AE Batcheller, J Stevens, WB Schoolcraft, M Katz-Jaffe. Zygote banking offers poor prognosis later stage reproductive patients the chance of family building. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

Lindsey Munkwitz, William B Schoolcraft and Mandy Katz-Jaffe. Natural anti-oxidant supplementation prior to infertility treatment results in excellent clinical outcomes for infertility patients with prior IVF failures. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

Blair R McCallie, Jason C Parks, Michelle Denomme Tignanelli, William B Schoolcraft and Mandy Katz-Jaffe. RNA sequencing of aneuploid blastocysts revealed enriched pathways associated with compromised implantation potential. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

Michelle Denomme Tignanelli, Blair McCallie, Jason Parks, William Schoolcraft, Mandy Katz-Jaffe. Altered methylome in normozoospermic males contributes to poor embryogenesis. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

Mandy Katz-Jaffe, Megan Schweitz, Susanna McReynolds, John Stevens and William B Schoolcraft. Blastocyst scoring systems provide evidence of euploid predictability. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016
Annette King, Katherine Hornberger, Danielle Young, Diane Klepacka, William B Schoolcraft and Mandy Katz-Jaffe. Excellent embryo development and IVF outcomes for patients with germline BRCA1 or BRCA2 mutations. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

John Stevens, Ann Schneiderman, Karen Maruniak, Brandee Findley, William B Schoolcraft and Mandy Katz-Jaffe. Euploid blastocyst transfer is a viable clinical option for male factor infertility with high sperm DNA fragmentation. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

Sue McCormick, Kim LaRocque, Kalyn Hamme, John Stevens, William B Schoolcraft and Mandy Katz-Jaffe. Compromised developmental competence of day 7 human blastocysts. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

Mandy Katz-Jaffe, Lauren Henry, Jason C Parks, Blair R McCallie and William B Schoolcraft. Embryo-endometrial dialogue is altered in endometriosis patients through microRNA regulation. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

Mandy Katz-Jaffe, Brittany Brown, Monique R Mansfield, John Stevens, Courtney Pospisil and William B Schoolcraft. Altered live birth gender ratio following frozen single euploid blastocyst transfer. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

Susanna McReynolds, Megan Schweitz, Sue McCormick, Jason C Parks, William B Schoolcraft and Mandy Katz-Jaffe. Unraveling the complexities of mosaicism in human blastocysts. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016

Jason C Parks, Blair McCallie, Julie A Reisz, Matthew Wither, William B Schoolcraft, Mandy Katz-Jaffe. Maternal endometrial secretions 24 hours prior to frozen embryo transfer is predictive of implantation outcome. 72nd Annual Meeting of the American Society for Reproductive Medicine, October 2016


Mandy Katz-Jaffe, Eric Surrey, John Stevens, Jason Swain, William B Schoolcraft. Sex chromosome aneuploidy is associated with younger parental ages. 65th Annual Pacific Coast Reproductive Society Meeting, March 2017

Mandy Katz-Jaffe, Susanna McReynolds, Kelly De Klerk, Lauren Henry, Megan Schweitz, Jason E Swain and William B Schoolcraft. Extremely low incidence of mosaicism in human blastocysts mimics occurrence in natural and IVF clinical pregnancies. 73rd Annual Meeting of the American Society for Reproductive Medicine, October 2017

Mandy Katz-Jaffe, Susanna McReynolds, Kelly de Klerk, Lauren Henry, Jason Parks, Sue McCormick and William Schoolcraft. The inner cell mass confirms deletion syndromes detected in trophectoderm biopsies. 73rd Annual Meeting of the American Society for Reproductive Medicine, October 2017
Sue McCormick, Robin Smith, Courtney Pospisil, Nathan McCubbin, William Schoolcraft and Mandy Katz-Jaffe. Calcium ionophore treatment after ICSI improves blastocyst development for male factor indications as well as patients with only a history of poor blastocyst development. 73rd Annual Meeting of the American Society for Reproductive Medicine, October 2017

Tonie Patrick, Julie VonFeldt, Monique Mansfield, William Schoolcraft and Mandy Katz-Jaffe. Good prognosis infertility patients can build families with a single oocyte retrieval and successive euploid blastocyst transfers. 73rd Annual Meeting of the American Society for Reproductive Medicine, October 2017

Michelle M Denomme Tignanelli, Blair R McCallie, Keith Booher, William Schoolcraft, Mandy Katz-Jaffe. The embryonic methylome and subsequent transcriptome is directly impacted by male factor infertility. 73rd Annual Meeting of the American Society for Reproductive Medicine, October 2017

Nathan McCubbin, Blair R McCallie, Jason C Parks, William Schoolcraft, and Mandy Katz-Jaffe. Disrupted sperm MiRNA expression profiles revealed a fingerprint of impaired spermatogenesis in oligozoospermia males. 73rd Annual Meeting of the American Society for Reproductive Medicine, October 2017

Mandy Katz-Jaffe, Jason Parks, Blair McCallie, Michelle Tignanelli and William Schoolcraft. Paternal aging over a natural lifetime is directly associated with genetic and epigenetic alterations in the male gamete. 73rd Annual Meeting of the American Society for Reproductive Medicine, October 2017

Blair R McCallie, Sue McCormick, Darren Griffin, William Schoolcraft and Mandy Katz-Jaffe. Histone modifications are involved with chromosome chaos in advanced maternal age human blastocysts. 73rd Annual Meeting of the American Society for Reproductive Medicine, October 2017

Jason Parks, Michelle Denomme Tignanelli, Nathan McCubbin, Blair McCallie, William Schoolcraft, Mandy Katz-Jaffe. Advanced paternal age directly impacts placental epigenetic mechanisms. 73rd Annual Meeting of the American Society for Reproductive Medicine, October 2017

Santiago Munné, Brian Kaplan, John Frattarelli, Mathias Gysler, Tim Child, Gary Nakhuda, F. Nicholas Shamma, Kaylen Silverberg, Mandy Katz-Jaffe, Dagan Wells, Tony Gordon, and Susan Willman. Global multicenter randomized controlled trial comparing single embryo transfer with embryo selection by preimplantation genetic screening using next-generation sequencing versus morphologic assessment. 73rd Annual Meeting of the American Society for Reproductive Medicine, October 2017

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