

# Denny Sakkas

## List of Publications by Citations

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77  
papers

4,942  
citations

34  
h-index

70  
g-index

87  
ext. papers

5,764  
ext. citations

3.2  
avg, IF

5.68  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 77 | Sperm DNA Fragmentation: mechanisms of origin, impact on reproductive outcome, and analysis. <i>Fertility and Sterility</i> , <b>2010</b> , 93, 1027-36   | 4.8  | 477       |
| 76 | Nature of DNA damage in ejaculated human spermatozoa and the possible involvement of apoptosis. <i>Biology of Reproduction</i> , <b>2002</b> , 66, 1061-7   | 3.9  | 338       |
| 75 | Extent of nuclear DNA damage in ejaculated spermatozoa impacts on blastocyst development after in vitro fertilization. <i>Fertility and Sterility</i> , <b>2004</b> , 82, 378-83  | 4.8  | 320       |
| 74 | Abnormal sperm parameters in humans are indicative of an abortive apoptotic mechanism linked to the Fas-mediated pathway. <i>Experimental Cell Research</i> , <b>1999</b> , 251, 350-5  | 4.2  | 266       |
| 73 | Noninvasive metabolomic profiling of embryo culture media using Raman and near-infrared spectroscopy correlates with reproductive potential of embryos in women undergoing in vitro fertilization. <i>Fertility and Sterility</i> , <b>2007</b> , 88, 1350-7          | 4.8  | 221       |
| 72 | Abnormal spermatozoa in the ejaculate: abortive apoptosis and faulty nuclear remodelling during spermatogenesis. <i>Reproductive BioMedicine Online</i> , <b>2003</b> , 7, 428-32   | 4    | 204       |
| 71 | Preimplantation genetic testing for aneuploidy versus morphology as selection criteria for single frozen-thawed embryo transfer in good-prognosis patients: a multicenter randomized clinical trial. <i>Fertility and Sterility</i> , <b>2019</b> , 112, 1071-1079.e7 | 4.8  | 196       |
| 70 | Intracytoplasmic sperm injection: a novel selection method for sperm with normal frequency of chromosomal aneuploidies. <i>Fertility and Sterility</i> , <b>2005</b> , 84, 1665-73  | 4.8  | 177       |
| 69 | Fertility testing and ICSI sperm selection by hyaluronic acid binding: clinical and genetic aspects. <i>Reproductive BioMedicine Online</i> , <b>2007</b> , 14, 650-63  | 4    | 175       |
| 68 | Metabolomics and its application for non-invasive embryo assessment in IVF. <i>Molecular Human Reproduction</i> , <b>2008</b> , 14, 679-90  | 4.4  | 169       |
| 67 | Noninvasive metabolomic profiling of human embryo culture media using Raman spectroscopy predicts embryonic reproductive potential: a prospective blinded pilot study. <i>Fertility and Sterility</i> , <b>2008</b> , 90, 77-83                                       | 4.8  | 155       |
| 66 | Male Oxidative Stress Infertility (MOSI): Proposed Terminology and Clinical Practice Guidelines for Management of Idiopathic Male Infertility. <i>World Journal of Men's Health</i> , <b>2019</b> , 37, 296-312   | 6.8  | 151       |
| 65 | Noninvasive metabolomic profiling of embryo culture media using proton nuclear magnetic resonance correlates with reproductive potential of embryos in women undergoing in vitro fertilization. <i>Fertility and Sterility</i> , <b>2008</b> , 90, 2183-9             | 4.8  | 148       |
| 64 | From oocyte to baby: a clinical evaluation of the biological efficiency of in vitro fertilization. <i>Fertility and Sterility</i> , <b>2009</b> , 91, 1061-6  | 4.8  | 126       |
| 63 | Cellular maturity and apoptosis in human sperm: creatine kinase, caspase-3 and Bcl-XL levels in mature and diminished maturity sperm. <i>Molecular Human Reproduction</i> , <b>2004</b> , 10, 365-72  | 4.4  | 126       |
| 62 | Chromatin packaging and morphology in ejaculated human spermatozoa: evidence of hidden anomalies in normal spermatozoa. <i>Molecular Human Reproduction</i> , <b>1996</b> , 2, 139-44   | 4.4  | 121       |
| 61 | Sperm selection in natural conception: what can we learn from Mother Nature to improve assisted reproduction outcomes?. <i>Human Reproduction Update</i> , <b>2015</b> , 21, 711-26   | 15.8 | 120       |

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|----|---|------|-----|
| 60 | Noninvasive metabolomic profiling as an adjunct to morphology for noninvasive embryo assessment in women undergoing single embryo transfer. <i>Fertility and Sterility</i> , <b>2010</b> , 94, 535-42                           | 4.8  | 119 |
| 59 | Spermatozoal nuclear determinants of reproductive outcome: implications for ART. <i>Human Reproduction Update</i> , <b>2005</b> , 11, 337-49  | 15.8 | 106 |
| 58 | Noninvasive methods to assess embryo quality. <i>Current Opinion in Obstetrics and Gynecology</i> , <b>2005</b> , 17, 283-8   | 2.4  | 88  |
| 57 | Day 3 embryo selection by metabolomic profiling of culture medium with near-infrared spectroscopy as an adjunct to morphology: a randomized controlled trial. <i>Human Reproduction</i> , <b>2012</b> , 27, 2304-11             | 5.7  | 84  |
| 56 | An embryonic poly(A)-binding protein (ePAB) is expressed in mouse oocytes and early preimplantation embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 367-72 | 11.5 | 82  |
| 55 | The significance of sperm nuclear DNA strand breaks on reproductive outcome. <i>Current Opinion in Obstetrics and Gynecology</i> , <b>2005</b> , 17, 255-60   | 2.4  | 65  |
| 54 | Novel technologies for selecting the best sperm for in vitro fertilization and intracytoplasmic sperm injection. <i>Fertility and Sterility</i> , <b>2013</b> , 99, 1023-9  | 4.8  | 60  |
| 53 | Role of increased male age in IVF and egg donation: is sperm DNA fragmentation responsible?. <i>Fertility and Sterility</i> , <b>2013</b> , 99, 30-36   | 4.8  | 56  |
| 52 | The presence of abnormal spermatozoa in the ejaculate: did apoptosis fail?. <i>Human Fertility</i> , <b>2004</b> , 7, 99-103  | 1.9  | 53  |
| 51 | Paternal factors contributing to embryo quality. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2018</b> , 35, 1953-1968   | 3.4  | 52  |
| 50 | Burden of care is the primary reason why insured women terminate in vitro fertilization treatment. <i>Fertility and Sterility</i> , <b>2018</b> , 109, 1121-1126  | 4.8  | 44  |
| 49 | Subzonal sperm microinjection in cases of severe male factor infertility and repeated in vitro fertilization failure. <i>Fertility and Sterility</i> , <b>1992</b> , 57, 1279-88  | 4.8  | 43  |
| 48 | How many oocytes are optimal to achieve multiple live births with one stimulation cycle? The one-and-done approach. <i>Fertility and Sterility</i> , <b>2017</b> , 107, 397-404.e3  | 4.8  | 42  |
| 47 | A soluble molecule secreted by human blastocysts modulates regulation of HOXA10 expression in an epithelial endometrial cell line. <i>Fertility and Sterility</i> , <b>2003</b> , 80, 1169-74                                   | 4.8  | 41  |
| 46 | Assisted reproductive technology outcomes in female-to-male transgender patients compared with cisgender patients: a new frontier in reproductive medicine. <i>Fertility and Sterility</i> , <b>2019</b> , 112, 858-865         | 4.8  | 40  |
| 45 | Pathogenesis, developmental consequences, and clinical correlations of human embryo fragmentation. <i>Fertility and Sterility</i> , <b>2011</b> , 95, 1197-204  | 4.8  | 34  |
| 44 | Co-culture of the early human embryo: factors affecting human blastocyst formation in vitro. <i>Microscopy Research and Technique</i> , <b>1995</b> , 32, 50-6  | 2.8  | 34  |
| 43 | Deoxyribonucleic acid repair and apoptosis in testicular germ cells of aging fertile men: the role of the poly(adenosine diphosphate-ribosyl)ation pathway. <i>Fertility and Sterility</i> , <b>2009</b> , 91, 2221-9           | 4.8  | 33  |

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|----|---|-----|----|
| 42 | Sperm nuclear DNA damage in the human. <i>Advances in Experimental Medicine and Biology</i> , <b>2003</b> , 518, 73-84  | 3.6 | 33 |
| 41 | Sperm selection methods in the 21st century. <i>Biology of Reproduction</i> , <b>2019</b> , 101, 1076-1082  | 3.9 | 26 |
| 40 | Multicenter prospective study of concordance between embryonic cell-free DNA and trophectoderm biopsies from 1301 human blastocysts. <i>American Journal of Obstetrics and Gynecology</i> , <b>2020</b> , 223, 751.e1-751.e13       | 6.4 | 26 |
| 39 | No change in live birthweight of IVF singleton deliveries over an 18-year period despite significant clinical and laboratory changes. <i>Human Reproduction</i> , <b>2016</b> , 31, 1987-96   | 5.7 | 26 |
| 38 | Will noninvasive methods surpass invasive for assessing gametes and embryos?. <i>Fertility and Sterility</i> , <b>2017</b> , 108, 730-737   | 4.8 | 24 |
| 37 | To test or not to test? A framework for counselling patients on preimplantation genetic testing for aneuploidy (PGT-A). <i>Human Reproduction</i> , <b>2019</b> , 34, 268-275   | 5.7 | 24 |
| 36 | Personalized ovarian stimulation for assisted reproductive technology: study design considerations to move from hype to added value for patients. <i>Fertility and Sterility</i> , <b>2018</b> , 109, 968-979                       | 4.8 | 23 |
| 35 | Use of the egg-share model to investigate the paternal influence on fertilization and embryo development after in vitro fertilization and intracytoplasmic sperm injection. <i>Fertility and Sterility</i> , <b>2004</b> , 82, 74-9 | 4.8 | 23 |
| 34 | Follicle-stimulating hormone receptor (FSHR) alternative skipping of exon 2 or 3 affects ovarian response to FSH. <i>Molecular Human Reproduction</i> , <b>2014</b> , 20, 630-43  | 4.4 | 20 |
| 33 | Metabolic imaging with the use of fluorescence lifetime imaging microscopy (FLIM) accurately detects mitochondrial dysfunction in mouse oocytes. <i>Fertility and Sterility</i> , <b>2018</b> , 110, 1387-1397                      | 4.8 | 20 |
| 32 | Hippo signaling in the ovary and polycystic ovarian syndrome. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2018</b> , 35, 1763-1771  | 3.4 | 15 |
| 31 | Combined noninvasive metabolic and spindle imaging as potential tools for embryo and oocyte assessment. <i>Human Reproduction</i> , <b>2019</b> , 34, 2349-2361   | 5.7 | 14 |
| 30 | Laboratory procedures for human in vitro fertilization. <i>Seminars in Reproductive Medicine</i> , <b>2014</b> , 32, 272-824  | 8.4 | 12 |
| 29 | Elevated progesterone and its impact on birth weight after fresh embryo transfers. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2017</b> , 34, 759-764   | 3.4 | 8  |
| 28 | Metabolomic profiling of embryo culture media to predict IVF outcome. <i>Expert Review of Obstetrics and Gynecology</i> , <b>2008</b> , 3, 441-447  |     | 7  |
| 27 | Embryo donation: Survey of in-vitro fertilization (IVF) patients and randomized trial of complimentary counseling. <i>PLoS ONE</i> , <b>2019</b> , 14, e0221149   | 3.7 | 6  |
| 26 | Is younger better? Donor age less than 25 does not predict more favorable outcomes after in vitro fertilization. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2019</b> , 36, 1631-1637                                 | 3.4 | 6  |
| 25 | Blasts from the past: is morphology useful in PGT-A tested and untested frozen embryo transfers?. <i>Reproductive BioMedicine Online</i> , <b>2020</b> , 41, 981-989  | 4   | 6  |

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| 24 | Comparison of pregnancy outcomes following preimplantation genetic testing for aneuploidy using a matched propensity score design. <i>Human Reproduction</i> , <b>2020</b> , 35, 2356-2364  | 5.7 | 6 |
| 23 | Birthweight and the effects of culture media. <i>Human Reproduction</i> , <b>2017</b> , 32, 717-718   | 5.7 | 6 |
| 22 | Implantation Rate Remains Unaffected in Women with Endometriosis Compared to Tubal Factor Infertility. <i>Journal of Endometriosis</i> , <b>2011</b> , 3, 86-92   |     | 5 |
| 21 | The impact of younger age on treatment discontinuation in insured IVF patients. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2017</b> , 34, 209-215  | 3.4 | 4 |
| 20 | Multiple cryopreservation-warming cycles, coupled with blastocyst biopsy, negatively affect IVF outcomes. <i>Reproductive BioMedicine Online</i> , <b>2021</b> , 42, 572-578  | 4   | 4 |
| 19 | Blastocyst transfer for patients with multiple assisted reproduction treatment failures: preliminary experience. <i>Human Fertility</i> , <b>2001</b> , 4, 104-8  | 1.9 | 3 |
| 18 | Apoptosis in Ejaculated Spermatozoa and in the Normal and Pathological Testes: Abortive Apoptosis and Sperm Chromatin Damage <b>2018</b> , 197-218  |     | 3 |
| 17 | Time-lapse videography for embryo selection/de-selection: a bright future or fading star?. <i>Human Fertility</i> , <b>2020</b> , 23, 76-82   | 1.9 | 3 |
| 16 | A multi-centre international study of salivary hormone oestradiol and progesterone measurements in ART monitoring. <i>Reproductive BioMedicine Online</i> , <b>2021</b> , 42, 421-428   | 4   | 3 |
| 15 | Evaluation of a high implantation potential (HIP) embryo grading system designed to reduce multiple pregnancy. <i>Journal of Reproductive Health and Medicine</i> , <b>2016</b> , 2, 11-16  |     | 2 |
| 14 | The Psychological Impact of the COVID-19 Pandemic on Women Pregnant Following Infertility Treatment: A Longitudinal Study.. <i>F&amp;S Reports</i> , <b>2022</b> ,  | 0.6 | 2 |
| 13 | Fertility technologies and how to optimize laboratory performance to support the shortening of time to birth of a healthy singleton: a Delphi consensus. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 1021-1043 | 3.4 | 2 |
| 12 | Double trouble? Clinic-specific risk factors for monozygotic twinning. <i>Fertility and Sterility</i> , <b>2020</b> , 114, 587-594  | 4.8 | 1 |
| 11 | Assessment of Oocyte and Embryo Quality in Women with Endometriosis. <i>Journal of Endometriosis</i> , <b>2010</b> , 2, 87-94   |     | 1 |
| 10 | Elevated serum progesterone during in vitro fertilization treatment and the risk of ischemic placental disease. <i>Pregnancy Hypertension</i> , <b>2021</b> , 24, 7-12  | 2.6 | 1 |
| 9  | Perinatal outcomes in singleton pregnancies after in vitro fertilization cycles over 24 years. <i>Fertility and Sterility</i> , <b>2021</b> , 116, 27-35  | 4.8 | 1 |
| 8  | The use of propensity score matching to assess the benefit of the endometrial receptivity analysis in frozen embryo transfers. <i>Fertility and Sterility</i> , <b>2021</b> , 116, 396-403  | 4.8 | 1 |
| 7  | Single cell analysis of DNA in more than 10,000 individual sperm from men with abnormal reproductive outcomes. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 2975-2983   | 3.4 | 1 |

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| 6 | The IVF Cycle to Come: Laboratory Innovations <b>2020</b> , 54-66  |     | o |
| 5 | In-Vitro fertilization and andrology laboratory in 2030: expert visions. <i>Fertility and Sterility</i> , <b>2021</b> , 116, 4-12  | 4.8 | o |
| 4 | The effect of rapid and delayed insemination on reproductive outcome in conventional insemination and intracytoplasmic sperm injection in vitro fertilization cycles. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 2697-2706 | 3.4 | o |
| 3 | Physiology and Culture of the Early Human Embryo <b>2019</b> , 232-244   |     |   |
| 2 | Patient Retention, Nursing Retention: The Importance of Empathic Communication and Nursing Support <b>2020</b> , 146-155   |     |   |
| 1 | In-Vitro Reproductive Technologies <b>2011</b> , 127-134   |     |   |