

CURRICULUM VITAE

NAME: **David MORTIMER**

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DATE OF BIRTH: 29th April 1953

PLACE OF BIRTH: Huddersfield, Yorkshire, England

CITIZENSHIP: British Subject (UK & C)
Canadian (from 4 September 1987)
Australian (from 25 July 1994)

MARITAL STATUS: Married to Sharon Tracey (née Gellert)
(Australian Citizen)

CHILDREN: Two daughters, born 17 July 1989 (Australian, British and Canadian Citizens)

EDUCATION:

Secondary Education:

1964–1971 King James's Grammar School, Almondbury, Huddersfield, Yorkshire, England.

University Education:

1971–1974 University of Bristol (England), Department of Zoology.
Single honours BSc Zoology 2(i), July 1974.

1974–1977 University of Edinburgh (Scotland), Departments of Genetics and Obstetrics & Gynaecology. PhD
thesis *Electron and Light Microscope Studies of Mammalian Spermatozoa* (November 1977).

OTHER INFORMATION:

Sporting Interests: Downhill skiing
Leisure Interests: Reading, music & hi-fi, computers, movies, cooking, foreign travel.

POSITIONS HELD

CURRENT:

- Mar 2000 – present** President: Oozoa Biomedical Inc, West Vancouver, BC, Canada
- June 2004 – present** Off-site (part-time) Scientific Director: Atlantic Assisted Reproductive Therapies, Halifax, NS, Canada

PREVIOUSLY:

- May 2003 – Feb 2006** Off-site Scientific Director: Victoria Fertility Centre, Victoria, BC, Canada
- September 2001:** Visiting Professor, Beijing Women’s Hospital, Beijing, China.
- Oct 1999 – July 2001** Director of Research & Development, Genesis Fertility Centre, Vancouver, Canada
- Aug 1997 – Dec 1999** Temporary Advisor, World Health Organization: preparing “*WHO Manual for the Standardized Investigation, Diagnosis and Management of the Infertile Male*”
- Jun 1996 - Sep 1999:** Director, *Launceston.SIVF Pty Ltd*, Launceston, Tas, Australia
- Jan 1995 – Dec 1999** Clinical Senior Lecturer, Department of Obstetrics & Gynaecology, University of Sydney, Sydney, NSW 2006, Australia
- Apr 1992 - Dec 1996:** Director, *Andrology International BV*, Amsterdam, The Netherlands
- Aug 1991 – Sep 1999** Scientific Director, Sydney IVF, 4 O’Connell Street, Sydney, NSW 2000, Australia
Visiting Principal Scientific Officer, Department of Reproductive Endocrinology & Infertility, Royal Prince Alfred Hospital, Sydney
- Aug 1991 - Jun 2000:** Managing Director, *Mortimer Scientific Consulting Pty Ltd*, Sydney, NSW, Australia
- July 1989 – Dec 1991:** Temporary Advisor, World Health Organization: preparation of “*WHO Laboratory Manual for the Examination of Human Semen and Sperm-Cervical Mucus Interaction, 3rd edition*”
- July 1988 – July 1991:** Associate Professor, Departments of Obstetrics & Gynaecology and Medical Physiology, University of Calgary (Canada)
Research Director, Gamete Biology Unit, Reproductive Medicine Research Group
Scientific Director, IVF Program and Diagnostic Semen Laboratory
- From July 1990:** Associate Professor, Department of Pathology, University of Calgary and Department of Histopathology, Foothills Hospital, Calgary
- Oct 1983 – June 1988:** Assistant Professor and Alberta Heritage Foundation for Medical Research Scholar, Departments of Obstetrics & Gynaecology and Medical Physiology, University of Calgary (Canada).
Research program on human sperm physiology and infertility
Scientific Director, University of Calgary Diagnostic Semen Laboratory
- From Jan 1988:** Scientific Director, University of Calgary/ Foothills Hospital IVF Program
- Oct 1981 – Sep 1983:** Research Fellowship (West Midlands Regional Health Authority), Department of Obstetrics & Gynaecology, University of Birmingham (UK). Research programme on the role of gamete dysfunction in human infertility
- Oct 1980 – Sep 1981:** Attaché-assistant, Laboratoire d’Histologie, Embryologie et Cytogénétique (Centre Hospitalier Universitaire de Bicêtre, Le Kremlin-Bicêtre, France: Prof. G. David). Microcinematographic analysis of sperm motility
- Jan 1978 – Sep 1980:** Wellcome Trust Interdisciplinary Linked Fellowship, Departments of Obstetrics & Gynaecology and Genetics, Edinburgh University (UK). Studies of sperm transport in the human female reproductive tract

OTHER PROFESSIONAL ACTIVITIES

COMMITTEES:

03/82 – 09/83	Programme Secretary of the British Andrology Society (resigned to move to Calgary)
10/86 – 10/88	Chairman, Canadian Fertility & Andrology Society Working Committee on Therapeutic Donor Insemination. Editor, <i>CFAS Guidelines on Therapeutic Donor Insemination</i>
10/89 – 10/91	Western Director of the Canadian Fertility and Andrology Society
05/90 – 06/91	Founding Member and Executive Committee Member, Canadian Voluntary Regulatory Association for Assisted Reproductive Technology
10/90 – 10/91	Chairman, Canadian Fertility & Andrology Society Working Committee on Therapeutic Donor Insemination. Editor, <i>CFAS Revised Guidelines on Therapeutic Donor Insemination</i>
04/93 – 09/99	University of Sydney Department of Obstetrics & Gynaecology Research Committee
01/94 – 09/99	Teaching, Administration and Curriculum Committee for Masters Degrees in Reproductive Health Sciences, University of Sydney
02/94 – 09/99	University of Sydney Graduate Degree Planning Committee in Reproductive Sciences
07/94 – present	Educational Subcommittee of the Andrology Special Interest Group of the European Society for Human Reproduction and Embryology (ESHRE)
01/95 – 05/99	Scientific Program Chairman, 11 th World Congress on In Vitro Fertilization and Human Reproductive Genetics (Sydney, 9–14 May 1999)
11/97 – present	Member, Expert Advisory Panel on Andrology, Fédération Internationale de Gynécologie et d'Obstétrique (FIGO)
04/99 – present	Accreditation Committee, Canadian Fertility & Andrology Society
10/01 – 11/04	Western Director, Canadian Fertility & Andrology Society
00/04 – 11/04	Interim Secretary-Treasurer, Canadian Fertility & Andrology Society
11/04 – present	Secretary-Treasurer, Canadian Fertility & Andrology Society

PROFESSIONAL SOCIETIES:

Alpha (Embryologists International)	Member	1996–
American Society of Andrology	Member	1986–
American Society for Reproductive Medicine (ex-Amer. Fertil. Soc.)	Active Member	1982–
British Andrology Society	Member	1979–
Calgary Obstetrical and Gynaecological Society	Member	1983–1994
Canadian Fertility and Andrology Society	Member	1983–
Galton Institute (previously The Eugenics Society)	Fellow	1982–
European Society for Human Reproduction and Embryology	Member	1987–
Fertility Society of Australia	Member	1991–
International Embryo Transfer Society	Member	1995–
Society of Obstetricians and Gynaecologists of Canada	Associate member	1984–1992
Society for Reproduction and Fertility (previously Soc. Stud. Fertil.)	Member	1976–
Society for the Study of Reproduction	Member	1984–
British Fertility Society	Member	2005–

EDITORIAL BOARDS:

<i>Human Reproduction</i>	(1989–1997), International Editor (04/90–12/97)
<i>Fertility Digest</i>	(1990–1995)
<i>Andrologie</i>	(1992– 2000)
<i>Preimplantation Genetics & Diagnosis, Special Issues on Prenatal Diagnosis</i>	(2000–)

ADVISORY POSITIONS:

07/1994 – 12/1997	Scientific Advisor: Cryos, Aarhus, Denmark
08/1998 – present	Scientific Advisory Board Member: Genosis plc, London, UK
05/2000 – present	Advisory Board Member: Wildlife Breeding Resource Centre, Pretoria, South Africa
05/2001 – present	Advisory Board Member: INGfertility, Valleyford, WA, USA
05/2001 – present	Scientific Advisor: SCSA Diagnostics, Brookings, ND, USA
02/2002 – 10/2004	Scientific Advisor: Infertility Database Systems North America, Toronto, ON, Canada
05/2003 – present	Scientific Advisor: Androgen Centra de Infertilidad Masculina, La Coruña, Spain
10/2004 – present	Scientific Advisor: Mellowood Medical, Toronto, ON, Canada

AD HOC REFEREE:

Journals:

Acta Obstetrica et Gynecologica Scandinavica (since 1991)
Biology of Reproduction (since 1998)
Fertility and Sterility (since 1986)
Gamete Research (1984-1989; became Molecular Reproduction and Development)
Human Fertility (since 2003)
Human Reproduction (since 1986)
International Journal of Andrology (since 1984)
International Journal of Fertility (since 1989)
Journal of Andrology (since 1987)
Journal of Experimental Zoology (since 1989)
Journal of In Vitro Fertilization and Embryo Transfer (since 1989)
Journal of Reproduction and Fertility (1976–2000)
Molecular Human Reproduction (since 1996)
Molecular Reproduction and Development (since 1990)
Reproduction, Fertility and Development (since 1989)
Reproductive Biomedicine Online (since 2004)
Theriogenology (since 2004)

Granting Agencies:

Agricultural and Food Research Council (UK)
Australian Research Grants Scheme
Fonds pour la Formation de Chercheurs et l'Aide à la Recherche (Québec, Canada)
Health and Welfare Canada
International Planned Parenthood Federation
Manitoba Health Research Council
Medical Research Council of Canada
Medical Research Council of New Zealand
Medical Research Council (UK)
National Health and Medical Research Council (Australia)
Science and Engineering Research Council (UK)

CONSULTING WORK:

I have undertaken various types of consulting work in the field of reproductive biology and biomedicine since 1986, and have been a full-time freelance consultant since October 1999. Further details of this aspect of my career are available on my website or upon request, although some jobs do remain subject to non-disclosure agreements.

RESEARCH HISTORY AND EXPERIENCE

UNDERGRADUATE:

An Honours Year Project on freeze-etching electron microscopy of the morphology of rat spermatozoa recovered from the female tract *post coitum* led to my first publication.

POSTGRADUATE:

During my PhD studies, which were supervised by Dr Alan Beatty (Department of Genetics) and Dr Terry Baker (Department of Obstetrics & Gynaecology), I continued my interest in the ultrastructure of mammalian spermatozoa using surface replica and thin-sectioning techniques as well as freeze-etching. I also developed expertise in the recovery and scoring of spermatozoa from the female reproductive tracts of rabbits and women. This work provided considerable experience in the assessment of rabbit and human sperm morphology at both the light and electron microscope levels, and led directly into my first post-doctoral post.

POSTDOCTORAL:

Edinburgh: This fellowship was awarded to work in full-time collaboration with Dr Allan Templeton of the Department of Obstetrics & Gynaecology in the investigation of various aspects of sperm transport in the human female reproductive tract. The aim of the project was to develop a reliable test of sperm transport in the female tract that would contribute to the assessment of the subfertile couple; this included a re-evaluation of the post-coital test. Further studies extended our knowledge of the characteristics of those spermatozoa which reach the higher regions of the female tract, and of the selectivity of sperm transport.

Other collaborative projects included work on: (a) biochemical parameters to assess human sperm cryosurvival; (b) zona-free hamster egg penetration test to evaluate human sperm fertilizing ability; (c) development of a technique for determining the daily sperm production of human testes; (d) ultrastructural study of seasonal regression in Soay ram testes; (e) survey of the sex ratio of births resulting from artificial insemination with fresh or frozen semen; (f) epidemiologic study of semen analysis characteristics of men referred to the Edinburgh Royal Infirmary (ERI) Infertility Clinic; and (g) techniques for obtaining spermatozoa from men with retrograde ejaculation. In addition to research, I also ran a routine laboratory providing semen analysis and semen cryo-storage services for the ERI Infertility Clinic. In the spring of 1980 I was responsible for implementing the new WHO Infertility Task Force's protocol for semen analysis, necessitating expansion of our laboratory services.

France: The principal area of research was the analysis of rabbit and human sperm motility and movement characteristics. I achieved good fluency in French, giving both teaching and research seminars, and also regularly translated manuscripts from French to English.

Birmingham: During this fellowship I was responsible for the development and implementation of a comprehensive management protocol for the investigation of couples presenting at the University Infertility Clinic. This was to form the basis of a long-term prospective study on the role of gamete dysfunction in the aetiology of human infertility. I also gained a moderate level of competence in BASIC language computer programming which was used in the development of several programs to facilitate our clinical laboratory investigations and the analysis of human sperm motility. I was also involved in the establishment of the first IVF Programme in the Professorial Unit. Although it was intended that these research projects would continue to completion after my move to Calgary, due to budgetary cuts and problems of intra-departmental priorities, most of this research effort in the gamete biology area ceased by 1985.

ACADEMIC FACULTY (Calgary)

In Calgary my primary responsibility was in the organization of a research programme for the investigation of human sperm physiology, with particular reference to sperm motility, morphology, morphometry and functional ability (i.e. aspects of sperm transport, capacitation, acrosome reaction and fertilizing ability). Computer-based semi-automated and automated sperm motility analysis systems were a major part of this research and we used our own programs as well as the CellSoft and Hamilton-Thorn commercial analyzers. The work on commercial systems included involvement in the development of both improvements to the basic systems and add-on programs for post-hoc data file analysis.

In addition, I was the Scientific Director of the University of Calgary Diagnostic Semen Laboratory. This required training technicians and the establishment of standardized, quality-controlled techniques to provide the following services: comprehensive semen analysis (including seminal biochemistry and anti-sperm antibody screening); in-vitro sperm-mucus interaction testing; post-coital testing; and semen cryostorage for both therapeutic donor insemination and long-term autoconservation programmes. Also, from January 1988, I was Scientific Director of the University of Calgary / Foothills Hospital IVF Programme.

General areas of research interest included the physiological regulation of human sperm fertilizing ability, sperm movement analysis (including hyperactivated motility), the acrosome reaction, carbohydrate recognition processes in human fertilization, and various aspects of diagnostic and therapeutic andrology.

SYDNEY IVF:

In addition to responsibility for all aspects of the routine operation of Sydney IVF's laboratory operations, the following general areas of research were pursued: (a) sperm dysfunction and assisted conception; (b) improved culture conditions for human in-vitro fertilization and embryo development; (c) mechanically-assisted fertilization techniques for extreme male factor infertility; (d) basic studies on human sperm physiology; (e) pre-implantation genetic diagnosis using FISH; (f) mitochondrial DNA and reproductive dysfunction; (g) sperm chromatin damage and reproductive failure. Specific research projects can be discussed upon request, although some remain subject to confidentiality agreements with Sydney IVF.

The work on improved culture systems has since been commercialized by Cook IVF in the form of their MINC mini-incubators and "Sydney IVF" sequential culture media products.

I also pursued major interests in the development of quality control and quality assurance programmes for diagnostic andrology, clinical embryology and cryobanks.

Students: **Jacek K. Kossakowski** (co-supervisor with Prof. DM Saunders) MSc: *Effects of follicular fluid on human sperm motility and the acrosome reaction.*

Kylie A. de Boer (Prof. RPS Jansen co-supervisor), PhD: *Partial characterization of mitochondrial DNA mutations in human secondary oocytes.*

GRANTS AND AWARDS

- 981101 for 3 yrs** Project Coordinator (until 30/9/99) for an Australian Government Industry Research & Development Board Start Grant “Egg, Sperm and Embryo Genetic Testing to Improve Fertility and Prevent Birth Defects” awarded to Sydney IVF for AUD \$1.28M.
- 900701 – 920630** “Comprehensive Assessment of Sperm Function in Male Infertility Using A Novel Diagnostic Protocol.” Co-Investigators, Dr HA Pattinson and Dr JF Jarrell. Operating Grant, funds awarded = CAD \$88,000 *p.a.*
- 880928** Equipment Grant, Hamilton-Thorn Research (Beverly, MA, USA), for USD \$21,750.
- 870401 – 900630** “Physiological Regulation of Human Sperm Fertilizing Ability.” Operating Grant, funds awarded = CAD \$43,650 *p.a.*
- 860201** Equipment Grant, Nat Christie Foundation (Calgary), for CAD \$46,000.
- 850701 – 860630** “Improved Sperm Cryosurvival Agents and Techniques for Young Men With Cancer.” Foothills Hospital Research and Development Fund. Co-Investigator, Dr A Leader. Operating Grant, funds awarded = CAD \$10,550.
- 840701 – 850630** “Application of the Zona-free Hamster Oocytes Assay to Male Infertility Due to Sperm Agglutination.” Principal Investigator, Dr PJ Taylor; Co-Investigator, Dr A Leader. Funds awarded = CAD \$30,000.
- 831001 – 880630** “Human Sperm Physiology and Infertility” Alberta Heritage Foundation for Medical Research Scholarship. Salary support at Assistant Professor rank plus a combined Establishment and Operating Grant of CAD \$240,016.
- 831001** Equipment Grant, Nat Christie Foundation (Calgary), for CAD \$30,000.
- 821115 – 831114** “The Investigation of Dysfunctions of Sperm Fertilizing Ability in the Aetiology of Human Infertility.” Central Birmingham Health Authority Endowment Fund for Medical Research, held by Prof JR Newton in compliance with Endowment Fund and University regulations. Total funds awarded for operating costs and equipment = £5925.
- 811001 – 840930** “An Evaluation of Tests of Sperm Transport and Sperm Fertilising Ability in the Investigation of Human Infertility.” West Midlands Regional Health Authority Locally-Organized Research Scheme, held by Prof JR Newton, Dept of Obstetrics & Gynaecology, University of Birmingham (as per WMRHA and University regulations). Total funds awarded = £30,394.
- 770101 – 800930** “Sperm Transport in the Human Female Reproductive Tract.” Wellcome Trust Interdisciplinary Linked Fellowship held by Prof JRS Fincham, Head of the Department of Genetics, University of Edinburgh (in compliance with the Wellcome Trust and University regulations). Total funds awarded = £28,279 (salary, technical support, equipment and operating funds).

TEACHING EXPERIENCE

ACADEMIC COURSES

EDINBURGH:

1974-1977: Tutor and demonstrator in a biology course for first year Medicine and Dentistry students.

1974-1980: Practical classes on male reproductive physiology for both preclinical and clinical medical students.

Sept 1979: Postgraduate course "Recent Advances in Human Reproduction" held under the joint auspices of the UK MRC and the WHO.

BIRMINGHAM:

Regularly involved in the teaching programme of the Department of Obstetrics & Gynaecology within the areas of gamete biology, male reproduction and infertility.

CALGARY:

1983-1991: Undergraduate medical curriculum (Reproductive System), and Residency Programme in Obstetrics & Gynaecology.

1986-1990: Manager for Unit III "Conception and Early Pregnancy", Reproductive System Course

1989-1990: Evaluation Coordinator, Reproductive System Course.

1990-1991: Course Chairman, Reproductive System Course (2 years).

GENERAL:

Numerous research seminars and clinical presentations ("Rounds" and "Grand Rounds") in the UK, Canada and Australia, as well as internationally.

POSTGRADUATE COURSES AND WORKSHOPS

1986 ● Thomson Medical Centre, Singapore: *Reproductive Endocrinology*.

- 1) "Cryopreservation of Human Semen and Artificial Insemination"
- 2) "Recent Advances in Laboratory Methods for Assessment of Male Fertility"
- 3) "Value of Conventional Semen Analysis – A Critique"
- 4) "Enhancement Techniques for Poor Quality Semen in Artificial Insemination"

1989 ● Canadian Fertility and Andrology Society and Serono Symposia, Vancouver (BC, Canada): *Controversies in Reproductive Endocrinology: An Update for the Clinician*. "Antisperm antibodies. How Real? How Important?"

- Canadian Fertility and Andrology Society, Vancouver (BC, Canada): *Workshop on Techniques for Gamete and Embryo Banking*. Organizer and Chairman.

1990 ● American Association of Tissue Banks, San Diego (CA, USA): *Human Semen and Pre-Implantation Embryo Cryobanking: Screening and Quality Control/Assurance in Strategic Development of Standards*. "An Overview of Semen Analysis"

1991 ● Canadian Fertility and Andrology Society, Calgary (AB, Canada): *Andrology Workshop*. Organizer, and "Standardization and Quality Control in Semen Analysis"

- American Society for Andrology, Montreal (PQ, Canada): *An Update on Fertility in the Laboratory and in the Clinic*. "Current status of egg penetration assays"
- Canadian Fertility and Andrology Society and Serono Symposia, Québec (PQ, Canada): *Controversies in the Investigation of the Infertile Couple*. "New sperm function tests"
- American Fertility Society Reproductive Biology Special Interest Group, Orlando (FL, USA):

Reproductive Biology: Clinical and Basic Perspectives.

- 1) "Computer assisted semen analysis. Evaluation, verification and maintenance"
 - 2) "Hyperactivation of sperm"
- 1993** ● World Health Organization, Bangkok (Thailand): *Workshop on Quality Control in Semen Analysis*, Principal Faculty.
- American Fertility Society (Reproductive Biology Special Interest Group), Indianapolis (IN, USA): *Advanced Hands-On Workshop on Cryopreservation of Spermatozoa and Embryos*.
 - 1) "Current methods for sperm preservation"
 - 2) "Training and proficiency testing in laboratories offering cryopreservation"
- 1994** ● British Andrology Society and European Society for Human Reproduction and Embryology, Sheffield (UK): *Semen Analysis Workshop*.
- 1996** ● European Society of Human Reproduction and Embryology, Andrology Special Interest Group, Stockholm (Sweden): *Basic Semen Analysis Course*.
- 1997** ● European Society of Human Reproduction and Embryology, Andrology Special Interest Group. San Miniato, Pisa (Italy): *Campus Course on Computer-Aided Sperm Analysis (CASA)*. April 4th–6th.
 - 1) "Theoretical basis of CASA systems"
 - 2) "CASA and evaluation of sperm motility"
 - European Society of Human Reproduction and Embryology, Andrology Special Interest Group, Kharkov (Ukraine): *Basic Semen Analysis Course*. April 9th–13th.
 - European Society of Human Reproduction and Embryology, Andrology Special Interest Group, Pretoria (South Africa): *Basic Semen Analysis Course*. August 18th–21st.
 - Institute for Human Reproduction, Bharalumukh (Guwahati, India): *Workshop on Male Infertility*. September 27th & 28th.
- 1998** ● European Society of Human Reproduction and Embryology, Andrology Special Interest Group, Göteborg (Sweden): *Basic Semen Analysis Course*. June 24th–28th.
- 2000** ● South Cleveland Hospital Dept of Reproductive Medicine, Middlesbrough (UK): *Workshop on Advanced Management of Male Infertility*, July 29th. "Optimizing sperm function and genomic integrity during appropriate sperm preparation methods in modern ART".
- American Society for Reproductive Medicine, Reproductive Laboratory Technologists Professional Group, San Diego (CA, USA): Seminar on *Standardization of the Basic Semen Analysis*. October 25th.
- 2001** ● Cambridge Bay Biomedical Institutes, Qingdao, China: *2001 Education Workshop*, September 27th.
 - 1) "TQM and ART"
 - 2) "Development of an Improved IVF culture system"
 - 3) "Practical applications of TQM in ART"
 - 4) "Sperm preparation for ART"
 - Global Congress on Gynecologic Endoscopy, Infertility and ART, 2nd International Workshop for Embryologists, Goa (India): *Troubleshooting Activities of the ART Lab*, December 4th – 6th.
 - 1) "Standardization of the basic semen analysis"
 - 2) "Our IVF pregnancy rate is low – What's wrong in the lab?"
 - 3) "Sperm morphology: Tygerberg vs WHO"
 - 4) "Introduction to TQM"
 - 5) "Fundamentals of troubleshooting"
- 2003** ● European Society of Human Reproduction and Embryology, Andrology Special Interest Group, Madrid (Spain): *Treating Male Subfertility: Controversies in the State-of-the-ART*, June 29th. Co-convenor and "Is IUI effective in cases with male factor subfertility? Scientific aspects."
- 2005** ● Canadian Fertility and Andrology Society's ART Laboratory Special Interest Group, Montreal (Canada): *ESHRE Basic Semen Analysis Course*. October 19th–23rd.
- 2006** ● Indian Society for Assisted Reproduction 11th National Congress, Bangalore (India); pre-congress workshop on *Male Infertility and Andrology*, February 22nd. Key resource person and guest lecturer on "Diagnostic Laboratory Andrology: The role of the andrology lab in the structured management of male factor infertility."

PUBLICATIONS

1. **Mortimer, D.** & Thompson, T.E. (1976) Nuclear pores in the spermatozoon of the rat. *Experientia, Basel*, 32: 104-106.
2. **Mortimer, D.** (1977) The survival and transport to the site of fertilization of diploid rabbit spermatozoa. *J. Reprod. Fertil.*, 51: 99-104.
3. **Mortimer, D.** (1978) Selectivity of sperm transport in the female genital tract. In: *Spermatozoa, Antibodies and Infertility*, eds J. Cohen & W.F. Hendry. Blackwell Scientific Publications, Oxford & London; Chapter 5, pp. 37-53.
4. **Mortimer, D.** (1979) Functional anatomy of haploid and diploid rabbit spermatozoa. *Arch. Androl.*, 2: 13-20.
5. **Mortimer, D.** (1979) Differential motility of diploid rabbit spermatozoa. *Arch. Androl.*, 2: 41-47.
6. **Mortimer, D.** (1979) The distribution of diploid rabbit spermatozoa in the female tract after artificial insemination. *Anim. Reprod. Sci.*, 1: 245-250.
7. **Mortimer, D.**; Parnham, D.W. & Kelly, R.W. (1980) Effect of treatment with indomethacin and prostaglandins E2 and F2 α on semen parameters in the rabbit. *IRCS Med. Sci.*, 8: 131.
8. Donachie, K.M.; **Mortimer, D.** & Templeton A.A. (1980) Spermagglutinating and spermimmobilizing activities of human seminal plasma. *IRCS Med. Sci.*, 8: 220.
9. **Mortimer, D.** & Bramley, T.A. (1980) Extracellular carnitine acetyltransferase activity as a possible indicator of human spermatozoon integrity. *IRCS Med. Sci.*, 8: 833-834.
10. Templeton, A.A. & **Mortimer, D.** (1980) Laparoscopic sperm recovery in infertile women. *Br. J. Obstet. Gynaec.*, 87: 1128-1131.
11. Templeton, A.A. & **Mortimer, D.** (1981) Is abnormal semen liquefaction associated with human male infertility? *IRCS Med. Sci.*, 9: 72.
12. **Mortimer, D.** (1981) The assessment of human sperm morphology in surface replica preparations for transmission electron microscopy. *Gamete Res.*, 4: 113-119.
13. **Mortimer, D.** & Bramley, T.A. (1981) Evaluation of the measurement of glutamic-oxalacetic transaminase leakage from human spermatozoa as an indicator of cryodamage. *Arch. Androl.*, 6: 337-341.
14. Hunter, M.G.; **Mortimer, D.** & Baker, T.G. (1981) Evaluation of porcine corpora lutea during organ culture: a histological, ultrastructural and hormonal assessment. *Anim. Reprod. Sci.*, 4: 29-38.
15. **Mortimer, D.** & Richardson, D.W. (1982) Sex ratio of births resulting from artificial insemination. *Br. J. Obstet. Gynaec.*, 89: 132-135.
16. **Mortimer, D.**; Leslie, E.E.; Kelly, R.W. & Templeton, A.A. (1982) Morphological selection of human spermatozoa in vivo and in vitro. *J. Reprod. Fertil.*, 64: 391-399.
17. **Mortimer, D.** & Templeton, A.A. (1982) Sperm transport in the human female reproductive tract in relation to semen analysis characteristics and time of ovulation. *J. Reprod. Fertil.*, 64: 401-408.
18. **Mortimer, D.** & Lincoln, G.A. (1982) Ultrastructural study of regressed and activated testes from Soay rams. *J. Reprod. Fertil.*, 64: 437-442.
19. Templeton, A.A. & **Mortimer, D.** (1982) The development of a clinical test of sperm migration to the site of fertilization. *Fertil. Steril.*, 37: 410-415.
20. **Mortimer, D.**; Templeton, A.A.; Lenton, E.A. & Coleman, R.A. (1982) Semen analysis parameters and their interrelationships in suspected infertile men. *Arch. Androl.*, 8: 165-171.
21. **Mortimer, D.**; Templeton, A.A.; Lenton, E.A. & Coleman, R.A. (1982) Semen analysis parameters of a population of suspected infertile men. In: *Human Fertility Factors*, eds A. Spira & P. Jouannet. INSERM, vol. 103, Paris; pp. 91-95.
22. Templeton, A.A. & **Mortimer, D.** (1982) The development of a clinical test of sperm migration. In: *Human Fertility Factors*, eds A. Spira & P. Jouannet. INSERM, vol. 103, Paris; pp. 245-261.
23. **Mortimer, D.**; Templeton, A.A.; Lenton, E.A. & Coleman, R.A. (1982) The influence of abstinence and ejaculation-to-analysis delay upon semen analysis parameters of suspected infertile men. *Arch. Androl.*, 8: 251-256.
24. Templeton, A.A.; Aitken, R.J.; **Mortimer, D.** & Best F.S.M. (1982) Sperm function in patients with unexplained infertility. *Br. J. Obstet. Gynaec.*, 89: 550-554.
25. Aitken, R.J.; Best, F.S.M.; Rudak, E.A.; Djahanbakhch, O.; **Mortimer, D.**; Templeton, A.A. & Lees, M.M.

- (1982) An analysis of sperm function in cases of unexplained infertility: conventional criteria, movement characteristics and fertilizing capacity. *Fertil. Steril.*, 38: 212-221.
26. Templeton, A.A. & **Mortimer, D.** (1982) Successful circumvention of retrograde ejaculation in an infertile diabetic man. Case report. *Br. J. Obstet. Gynaec.*, 89: 1064-1065.
27. **Mortimer, D.**; Templeton, A.A.; Lenton, E.A. & Coleman, R.A. (1983) Annual patterns of human sperm production and semen quality. *Arch. Androl.*, 10: 1-5.
28. **Mortimer, D.**; Courtot, A.M.; Giovangrandi, Y. & Jeulin, C. (1983) Do capacitated human spermatozoa show an "activated" pattern of motility? In: *The Sperm Cell. Fertilizing Power, Surface Properties, Motility, Nucleus and Acrosome, Evolutionary Aspects*, ed. J. André. Martinus-Nijhoff, The Hague; pp. 349-352.
29. **Mortimer, D.** (1983) Sperm transport in the human female reproductive tract. In: *Oxford Reviews of Reproductive Biology, Vol. 5*, ed. C.A. Finn. Oxford University Press, Oxford; pp. 30-61.
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ABSTRACTS AND CONFERENCE PRESENTATIONS

Only presentations since 1990 are included here, a complete list is available upon request.

81. **Mortimer, D.** & Camenzind, A.R.: "Influence of extracellular pH upon the human sperm acrosome reaction." Annual Meeting of the American Society of Andrology, Columbia, SC (USA), April 1990. *J. Androl.*, 11 (Suppl), P-27, Abstract No. 27 (1990).
82. **Mortimer, D.**: "An overview of semen analysis." Workshop on 'Human Semen and Ova Banking - Considerations in Donor Screening, Quality Control and Quality Assurance' organized by The American Association of Tissue Banks, San Diego (USA), April 1990. *Invited speaker.*
83. **Mortimer, D.**: "Evaluation de la réaction acrosomiale comme test de fécondance des spermatozoïdes humains." 5^{es} Journées de Périconceptologie, Bordeaux (France), April 1990. *Contraception-Fertilité-Sexualité*, 18: 552-553.
84. Pattinson, H.A.; Fleetham, J. & **Mortimer, D.**: "The use of male serum to supplement IVF culture medium in cases of female anti-sperm antibodies is not detrimental to outcome." Annual Meeting of the American Society for the Immunology of Reproduction, Chicago (USA), June 1990. *Am. J. Reprod. Immunol.*, 22 (3/4): 95, 1990; Abstract FC-B66.
85. Lange, I.R.; Simrose, R.L.; **Mortimer, D.**; Hopkins, C. & Anderson, B.: "The biophysical profile score in the normal intrapartum patient." 46th Annual Meeting of the Society of Obstetricians and Gynaecologists of Canada, Halifax (Canada), June 1990.
86. Lange, I.R.; Anderson, B.; Hopkins, C. & **Mortimer, D.**: "Doppler velocimetry in the normal intrapartum patient." 46th Annual Meeting of the Society of Obstetricians and Gynaecologists of Canada, Halifax (Canada), June 1990.
87. Simrose, R.L.; Hopkins, C.; Anderson, B.; Lange, I.R. & **Mortimer, D.**: "Incidence of intrapartum fetal breathing movements and effect of glucose." 46th Annual Meeting of the Society of Obstetricians and Gynaecologists of Canada, Halifax (Canada), June 1990.
88. **Mortimer, D.**; Swart, R.; Camenzind, A.R. & Pattinson, H.A.: "Relevance of acrosome reaction assessment of human spermatozoa compared to other tests of sperm fertilizing ability." VII World Congress on Human Reproduction, Helsinki (Finland), June-July 1990. Abstract 282.
89. Fleetham, J.; Anderson, S.; Pattinson, H.A. & **Mortimer, D.**: "Sperm washing prior to swim-up is not beneficial in IVF: reinstatement of the original swim-up from semen method." VII World Congress on Human Reproduction, Helsinki (Finland), June-July 1990. Abstract 92.
90. **Mortimer, D.**: "Sperm function tests." Joint Meeting of the European Society of Human Reproduction and Embryology and the European Sterility Congress Organization, Milan (Italy), August-September, 1990. *Invited speaker.*
91. **Mortimer, D.**: "Hyperactivated motility of human spermatozoa." VI International Congress on Spermatology: Comparative Spermatology 20 Years After, Siena (Italy), August-September 1990. *Invited participant* in Workshop on 'Advanced Methods on Sperm Motility'.
92. **Mortimer, D.**: "Behaviour of spermatozoa in the human oviduct." Symposium on 'The Biology of the Oviduct,' La Serena (Chile), September 1990. *Invited speaker.*
93. **Mortimer, D.** & Camenzind, A.R.: "Human sperm-hamster cumulus coincubation and induction of the acrosome reaction." Annual Meeting of the Canadian Fertility and Andrology Society, Ville d'Estérel, Québec (Canada), October 1990.
94. **Mortimer, D.**; Smylie, M. & Swart, R.: "Establishment of inter-observer standardization in semen analysis." Annual Meeting of the Canadian Fertility and Andrology Society, Ville d'Estérel, Québec (Canada), October 1990.
95. Camenzind, A.R. & **Mortimer, D.**: "Intra-individual variability of human sperm acrosome reaction dynamics." Annual Meeting of the Canadian Fertility and Andrology Society, Ville d'Estérel, Québec (Canada), October 1990.
96. Smylie, M. & **Mortimer, D.**: "Evaluation of a clarified cryoprotectant medium for human sperm banking." Annual Meeting of the Canadian Fertility and Andrology Society, Ville d'Estérel, Québec (Canada), October 1990.
97. Fleetham, J.; **Mortimer, D.** & Pattinson, H.A.: "Inhibition of mouse embryo development in vitro by ultrasound coupling gel." Annual Meeting of the Canadian Fertility and Andrology Society, Ville d'Estérel, Québec (Canada), October 1990.
98. Pattinson, H.A.; Mortimer, S.T. & **Mortimer, D.**: "The introduction of embryo freezing into an IVF programme." Annual Meeting of the Canadian Fertility and Andrology Society, Ville d'Estérel, Québec (Canada), October 1990.
99. **Mortimer, D.**: "Techniques for the preparation of spermatozoa and the need for capacitation and the acrosome reaction." Symposium on 'Recent Developments in Micro-Assisted Fertilization' of the International Centre into the Pathophysiology of Human Reproduction, Rome (Italy), December 1990. *Invited speaker.*
100. **Mortimer, D.**: "Evaluation of the fertilizing capacity of human spermatozoa." Annual Meeting of the Nordic Association for Andrology, Huddinge (Sweden), January 1991. *Invited speaker.*
101. **Mortimer, D.**: "Validation of CASA technology in the andrology laboratory." Workshop on 'Computer Assisted

- Semen Analysis and the Andrology Laboratory' at the II International Congress on Therapy in Andrology, Pisa (Italy), June 1991. *Invited speaker.*
102. **Mortimer, D.:** "Sperm fertilizing ability tests: a critical review." 7th World Congress on In Vitro Fertilization and Assisted Procreation, Paris (France), July 1991. *Invited speaker.*
 103. Pattinson, H.A.; Fleetham, J.A.; Anderson, S.J.; deJong, H.A.; Mortimer, S.T; Servis, S. & **Mortimer, D.:** "Embryo cryopreservation – results following two ovarian stimulation protocols using GnRH agonists." 7th World Congress on In Vitro Fertilization and Assisted Procreation, Paris (France), July 1991. *Hum. Reprod.*, 6 (Suppl.): 212. Abstract P132.
 104. Fleetham, J.A.; Mortimer, S.T.; Anderson, S.J.; de Jong, H.A.; Pattinson, H.A. & **Mortimer, D.:** "Morphological factors influencing human embryo survival." 7th World Congress on In Vitro Fertilization and Assisted Procreation, Paris (France), July 1991. *Hum. Reprod.*, 6 (Suppl.): 203. Abstract P108.
 105. Adamson, L.M.; Smylie, M.; Camenzind, A.R. & **Mortimer, D.:** "Assessment of human sperm acrosomes using a film lysis test." 7th World Congress on In Vitro Fertilization and Assisted Procreation, Paris (France), July 1991. *Hum. Reprod.*, 6 (Suppl.): 282-283. Abstract P331.
 106. Anderson, S.J.; Mortimer, S.T.; Pattinson, H.A. & **Mortimer, D.:** "Comparison of media for human sperm hyperactivation." 7th World Congress on In Vitro Fertilization and Assisted Procreation, Paris (France), July 1991. *Hum. Reprod.*, 6 (Suppl.): 283-284. Abstract P334.
 107. Camenzind, A.R.; Smylie, M. & **Mortimer, D.:** "Optimization of Percoll gradients for human spermatozoa." 7th World Congress on In Vitro Fertilization and Assisted Procreation, Paris (France), July 1991. *Hum. Reprod.*, 6 (Suppl.): 291-292. Abstract P353.
 108. Leader, A.; Pattinson, A.H. & **Mortimer, D.:** "The impact of treatment of stage 1 & 2 endometriosis in women undergoing therapeutic donor insemination (TDI)." Annual Meeting of the Canadian Fertility and Andrology Society, Québec (Canada), September 1991.
 109. **Mortimer, D.:** "Bases théoriques de l'analyse cinétique des spermatozoïdes." Workshop on 'Analyse des Caractéristiques Cinétiques des Spermatozoïdes et PMA' at the X^{es} Journées Aquitaines de Perfectionnement en Reproduction Humaine, Bordeaux (France), September 1991. *Invited speaker.*
 110. **Mortimer, D.;** Camenzind, A.R.; Swart, R. & Pattinson, H.A.: "Multiparametric assessment of human sperm fertilizing ability." Annual Meeting of the Fertility Society of Australia, Lorne (Vic, Australia), November 1991.
 111. **Mortimer, D.:** "Goal-orientated training and quality control in semen analysis." Annual Meeting of the Fertility Society of Australia, Lorne (Vic, Australia), November 1991.
 112. Mortimer, S.T. & **Mortimer, D.:** "Movement characteristics of human spermatozoa involved in collisions." Annual Meeting of the Fertility Society of Australia, Lorne (Vic, Australia), November 1991.
 113. Lippi, J.; Jansen, R.P.S.; **Mortimer, D.** & Anderson, J.: "Sub-zonal insemination and IVF in extreme male factor infertility." Annual Meeting of the Fertility Society of Australia, Lorne (Vic, Australia), November 1991.
 114. **Mortimer, D.:** "Modern semen analysis." Symposium on 'Male Infertility' at the Royal College of Obstetricians and Gynaecologists, London (UK), March 1992. *Invited speaker.*
 115. **Mortimer, D.:** "Sperm preparation techniques for assisted reproduction." Simpson Symposium on 'New Horizons in Male Infertility,' Edinburgh (UK), September 1992. *Invited speaker.*
 116. Camenzind, A.R. & **Mortimer, D.:** "A simplified 2-step hyperosmotic Percoll gradient." Annual Meeting of the Canadian Fertility and Andrology Society, Kananaskis (Canada), November 1992.
 117. Moosani, N.; Spriggs, E.L.; Chorney, M.J.; **Mortimer, D.** & Pattinson, H.A.: "The use of photographic film for scoring the acrosin content of human spermatozoa." Annual Meeting of the Canadian Fertility and Andrology Society, Kananaskis (Canada), November 1992.
 118. Spriggs, E.L.; Chorney, M.J.; Shu, M.A.; **Mortimer, D.** & Pattinson, H.A.: "Evaluation of a competitive human sperm-zona binding assay." Annual Meeting of the Canadian Fertility and Andrology Society, Kananaskis (Canada), November 1992.
 119. Smylie, M.; Sullivan, M.; Pattinson, H.A. & **Mortimer, D.:** "Comparison of two vapour freezing techniques for the cryopreservation of human semen." Annual Meeting of the Canadian Fertility and Andrology Society, Kananaskis (Canada), November 1992.
 120. Spriggs, E.L.; Chorney, M.J.; Shu, M.A.; Camenzind, A.; **Mortimer, D.** & Pattinson, H.A.: "Chlortetracycline fluorescence assay as a marker for human sperm capacitation." Annual Meeting of the Canadian Fertility and Andrology Society, Kananaskis (Canada), November 1992.
 121. **Mortimer, D.:** "Sperm recovery techniques to maximise fertilising capacity." Sero International Meeting on 'Advanced Assisted Reproductive Techniques for the Infertile Male,' Adelaide (SA, Australia), November 1992. *Invited speaker.*
 122. **Mortimer, D.** & Jones, V.: "Optimized acrosome reaction induction in human spermatozoa." Annual Scientific Meeting of the Fertility Society of Australia, Adelaide (SA, Australia), December 1992. Abstract 119FC.
 123. **Mortimer, D.;** Adamson, L. & Camenzind, A.: "Evaluation of hypertonic Percoll gradients for human sperm

- preparation.” Vth International Congress of Andrology, Tokyo (Japan), May 1993. Pp.77.
124. **Mortimer, D.:** “CASA is superior to semen analysis – con side.” American Fertility Society (Reproductive Biology Special Interest Group), Pre-Congress Course on ‘Controversies in Reproductive Biology and Technology.’ Annual Meeting of the American Fertility Society, Montreal (PQ, Canada), October 1993.
 125. Mortimer, S. & **Mortimer, D.:** “Objective definition for human sperm hyperactivation at 60 Hz.” Annual Scientific Meeting of the Fertility Society of Australia, Sydney (NSW, Australia), November 1993. Abstract O28.
 126. Bezanehtak, H.; Swan, M.A. & **Mortimer, D.:** “Improved reactivated movement of human sperm models.” Annual Scientific Meeting of the Fertility Society of Australia, Sydney (NSW, Australia), November 1993. Abstract O20.
 127. Demetriou, A.; Lalic, I.; Jansen, R. & **Mortimer, D.:** “Transient cooling during oocyte retrieval for IVF and GIFT procedures.” Annual Scientific Meeting of the Fertility Society of Australia, Sydney (NSW, Australia), November 1993. Abstract MP63.
 128. **Mortimer, D.:** “Sperm microinjection. The Sydney IVF experience.” Mini-symposium on ‘Microinjection: Current Perspectives’, Annual Scientific Meeting of the Fertility Society of Australia, Sydney (NSW, Australia), November 1993. *Invited speaker.*
 129. **Mortimer, D.** & Forman, R.G.: “Crucial role of training in standardizing sperm motility counts.” 10th Annual Meeting of the European Society of Human Reproduction and Embryology, Brussels (Belgium), June 1994. *Hum. Reprod.*, 9 (Suppl. 4): 99-100. Abstract 253.
 130. Golovsky, D.; Cullinan, R.; Jansen, R.P.S. & **Mortimer, D.:** “MESA+ICSI for agenesis of the vas and failed vasectomy reversal.” XIII Annual Scientific Meeting of the Fertility Society of Australia, Brisbane (Qld, Australia), October 1994. Abstract O18.
 131. **Mortimer, D.** & Kossakowski, J.: “Development of a simplified human sperm hyperactivation assay.” XIII Annual Scientific Meeting of the Fertility Society of Australia, Brisbane (Qld, Australia), October 1994. Abstract O42.
 132. de Boer, K.A.; Bain, C.M.; **Mortimer, D.;** Anderson, J.C. & Jansen, R.P.S.: “Outreach IVF in rural areas.” XIII Annual Scientific Meeting of the Fertility Society of Australia, Brisbane (Qld, Australia), October 1994. Abstract MP75.
 133. Cullinan, R.T.; Demetriou, A.; Jansen, R.P.S. & **Mortimer, D.:** “Factors affecting fertilization rate at ICSI.” XIII Annual Scientific Meeting of the Fertility Society of Australia, Brisbane (Qld, Australia), October 1994. Abstract MP108.
 134. **Mortimer, D.:** “Semen analysis.” XIII Annual Scientific Meeting of the Fertility Society of Australia, Brisbane (Qld, Australia), October 1994. Abstract O122. *Invited speaker.*
 135. Kossakowski, J. & **Mortimer, D.:** “Teratozoospermia index is a better indicator of human sperm quality than percent abnormal forms.” XIII Annual Scientific Meeting of the Fertility Society of Australia, Brisbane (Qld, Australia), October 1994. Abstract O144.
 136. **Mortimer, D.** & Kossakowski, J.: “Human sperm hyperactivation is a distinct functional quality separate from semen characteristics.” 7th International Symposium on Spermatology, Cairns (Qld, Australia), October 1994. Miniposter 8.29.
 137. **Mortimer, D.;** Demetriou, A.; Cullinan, R.; Henman, M. & Jansen, R.P.S.; “A novel approach to IVF laboratory quality control.” IXth World Congress on In Vitro Fertilization and Assisted Reproduction, Vienna (Austria), April 1995, Abstract OC-160. *J. Ass. Reprod. Genet.*, 12(3) Suppl: 66S.
 138. Cullinan, R.T.; Lalic, I.; de Boer, K.A.; Jansen, R.P.S. & **Mortimer, D.:** “GIFT as a successful treatment for all but the most severe male factor cases.” IXth World Congress on In Vitro Fertilization and Assisted Reproduction, Vienna (Austria), April 1995, Abstract OC-255. *J. Ass. Reprod. Genet.*, 12(3) Suppl: 90S.
 139. de Boer, K.A.; Bain, C.M.; Anderson, J.C.; Jansen, R.P.S. & **Mortimer, D.:** “Outreach IVF in rural areas.” IXth World Congress on In Vitro Fertilization and Assisted Reproduction, Vienna (Austria), April 1995, Abstract OC-376. *J. Ass. Reprod. Genet.*, 12(3) Suppl: 120S.
 140. Mortimer, S.T.; **Mortimer, D.** & Swan, M.A.: “Fractal analysis of human sperm hyperactivation.” IXth World Congress on In Vitro Fertilization and Assisted Reproduction, Vienna (Austria), April 1995, Abstract OC-85. *J. Ass. Reprod. Genet.*, 12(3) Suppl: 48S.
 141. **Mortimer, D.:** “In vitro induction of acrosome reaction.” International Symposium on Human Sperm Acrosome Reaction, Collioure (France), September 1995. *Invited speaker.*
 142. Muir, S.E.; Bowman, M.C.; **Mortimer, D.** & Jansen, R.P.S.: “Local xylocaine for transvaginal oocyte pick-up: a randomised, double-blind, placebo-controlled trial.” XIV Annual Scientific Meeting of the Fertility Society of Australia, Melbourne (Vic, Australia), November 1995. Abstract FSA78.
 143. Kossakowski, J. & **Mortimer, D.:** “Human sperm chemotaxis to follicular fluid by assessment of sperm movement direction.” XIV Annual Scientific Meeting of the Fertility Society of Australia, Melbourne (Vic, Australia), November 1995. Abstract FSA82.
 144. **Mortimer, D.,** van der Horst, G.; Bornman, M.E. & Pienaar, A.: “Comparison of two computer-assisted sperm analysis systems: the Hamilton Thorne Research IVOS and SMQ instruments for the determination of human sperm

- kinematics." 12th Annual Meeting of the European Society of Human Reproduction and Embryology, Maastricht (Netherlands), June-July 1996. *Hum. Reprod.*, 11 (Abstract Book 1): 100. Abstract P008.
145. Cullinan, R.T.; de Boer, K.A.; Persson, J.; Bowman, M.C.; Jansen, R.P.S. & **Mortimer, D.**; "Comparison between testicular sperm extraction using the BIP[®] biopsy gun and micro-epididymal sperm aspiration to obtain spermatozoa from azoospermic men undergoing ICSI." 12th Annual Meeting of the European Society of Human Reproduction and Embryology, Maastricht (Netherlands), June-July 1996. *Hum. Reprod.*, 11 (Abstract Book 1): 121. Abstract P053.
146. Amirmostofian, P.; **Mortimer, D.** & Swan, M.A.: "Sperm nuclei evaluated by aniline blue staining, transmission (TEM) and scanning (SEM) electron microscopy." XV Annual Scientific Meeting of the Fertility Society of Australia, Queenstown (New Zealand), September 1996. Abstract O17.
147. Mortimer, S.T.; Schoëvaert, D.; Swan, M.A. & **Mortimer, D.**; "Quantitative observations of flagellar motility of capacitating human sperm." XV Annual Scientific Meeting of the Fertility Society of Australia, Queenstown (New Zealand), September 1996. Abstract O49.
148. Bezanehtak, H.; **Mortimer, D.** & Swan, M.A.: "Prospective study of the relation between *in vitro* decondensation of human spermatozoa and fertilization outcome." XV Annual Scientific Meeting of the Fertility Society of Australia, Queenstown (New Zealand), September 1996. Abstract O83.
149. Watson, R.V.; Toogood, L.C.; Kossakowski, J.K. & **Mortimer, D.**; "Relationship between sperm teratozoospermia index and fertilizing ability." XV Annual Scientific Meeting of the Fertility Society of Australia, Queenstown (New Zealand), September 1996. Abstract O100.
150. Kossakowski, J. & **Mortimer, D.**: "Evaluation of the Hamilton Thorne Metrix program for the classification of normal human sperm head morphology and a comparison with trained observers." XV Annual Scientific Meeting of the Fertility Society of Australia, Queenstown (New Zealand), September 1996. Abstract MP4.
151. de Boer, K.A.; Cullinan, R.T.; Bowman, M.C.; Jansen, R.P.S. & **Mortimer, D.**: "Preimplantation genetic diagnosis using FISH in a patient with a history of Turner syndrome pregnancies." XV Annual Scientific Meeting of the Fertility Society of Australia, Queenstown (New Zealand), September 1996. Abstract MP101.
152. **Mortimer, D.**: "A decade of andrology. Significant advances and prospects for the future." Inaugural meeting of the College of Reproductive Biology of the American Association of Bioanalysts, Houston (TX, USA), May 1997. *Invited speaker.*
153. **Mortimer, D.**: "Sperm separation techniques in the absence of Percoll." Inaugural meeting of the College of Reproductive Biology of the American Association of Bioanalysts, Houston (TX, USA), May 1997. *Invited speaker.*
154. **Mortimer, D.**: "The value of CASA in busy andrology and embryology laboratories." Inaugural meeting of the College of Reproductive Biology of the American Association of Bioanalysts, Houston (TX, USA), May 1997. *Invited speaker.*
155. **Mortimer, D.**: "Role of laboratory testing in diagnosis and management.: 10th World Congress on In Vitro Fertilization and Assisted Reproduction, Vancouver (BC, Canada) May 1997. *Invited speaker. J. Ass. Reprod. Genet.*, 14(5) Suppl: 29S.
156. **Mortimer, D.**; Kossakowski, J.; Mortimer, S.T. & Fussell, S.: "Prediction of fertilizing ability by sperm kinematics." 10th World Congress on In Vitro Fertilization and Assisted Reproduction, Vancouver (BC, Canada) May 1997. Abstract OC-05-043. *J. Ass. Reprod. Genet.*, 14(5) Suppl: 52S.
157. Kossakowski, J. & **Mortimer, D.**: "Human sperm chemokinesis in human follicular fluid (hFF)." 10th World Congress on In Vitro Fertilization and Assisted Reproduction, Vancouver (BC, Canada) May 1997. Abstract PP-17-388. *J. Ass. Reprod. Genet.*, 14(5) Suppl: 191S.
158. **Mortimer, D.**: "Falling sperm counts. Apocalypse now? No." Andrology Special Interest Group Workshop 'Controversies in Andrology' at the 13th Annual Meeting of the European Society of Human Reproduction and Embryology, Edinburgh (Scotland, UK), June 1997. *Invited speaker.*
159. Kossakowski, J.; Morrison, L. & **Mortimer, D.**: "Evaluation of PureSperm gradients instead of Percoll for human spermatozoa." 13th Annual Meeting of the European Society of Human Reproduction and Embryology, Edinburgh (Scotland, UK), June 1997. Abstract O-179. *Hum. Reprod.*, 12 (Abstract Book 1): 88.
160. **Mortimer, D.**: "Standardization and quality control in semen analysis." South African Society for Reproductive Science and Surgery Congress on 'Current Aspects of Reproductive Biology,' Karos Lodge (South Africa), August 1997. *Invited speaker.*
161. **Mortimer, D.**: "The future or computer-aided sperm analysis." South African Society for Reproductive Science and Surgery Congress on 'Current Aspects of Reproductive Biology,' Karos Lodge (South Africa), August 1997. *Invited speaker.*
162. **Mortimer, D.**; Menkveld, R & Kossakowski, J.: "Comparison of WHO'92 and Tygerberg strict criteria sperm morphology evaluations." South African Society for Reproductive Science and Surgery Congress on 'Current Aspects of Reproductive Biology,' Karos Lodge (South Africa), August 1997.
163. van der Horst, G.; Kossakowski, J. & **Mortimer, D.**: "Sperm kinematic parameters in semen may be predictive of the percentage hyperactivation in culture medium." South African Society for Reproductive Science and Surgery

- Congress on 'Current Aspects of Reproductive Biology,' Karos Lodge (South Africa), August 1997.
164. Henman, M.; Catt, J. & **Mortimer, D.**: "A stage-specific medium promotes blastocyst formation." XVI Annual Scientific Meeting of the Fertility Society of Australia, Adelaide (SA, Australia), December 1997, Abstract 0-5.
 165. **Mortimer, D.**; Catt, J.; Henman, M.; Zvolanek, J.; Cullinan, R. & Jansen, R.P.S.: "Development of a stage-specific medium for human IVF." XVI Annual Scientific Meeting of the Fertility Society of Australia, Adelaide (SA, Australia), December 1997, Abstract MP-13.
 166. **Mortimer, D.**: "Update on the value of CASA systems." Workshop on 'Semen Evaluation, Testing and Selection: A new look in the 2000's.' held at Andrology in the Nineties: Modern ART in the 2000's, Genk (Belgium), April 1998. *Invited speaker.*
 167. **Mortimer, D.**: "Value and reliability of CASA systems." Andrology in the Nineties: Modern ART in the 2000's, Genk (Belgium), April 1998. *Invited speaker.*
 168. Cullinan, R.T.; Catt, J.W.; Fussell, S.; Henman, M. & **Mortimer, D.**: "Improved implantation rates of cryopreserved human embryos thawed in a phosphate-free medium." 14th Annual Meeting of the European Society of Human Reproduction and Embryology, Göteborg (Sweden), June 1998. Abstract O-117. *Hum. Reprod.*, 13 (Abstract Book 1): 59-60.
 169. **Mortimer, D.**; Henman, M.; Peters, K. & Catt, J.: "Inhibitory effects of isoleucine and phenylalanine upon early human development." 14th Annual Meeting of the European Society of Human Reproduction and Embryology, Göteborg (Sweden), June 1998. Abstract P-178. *Hum. Reprod.*, 13 (Abstract Book 1): 218-219.
 170. **Mortimer, D.**: "Structured management as a basis for cost-effective infertility treatment." Workshop on 'Structured management of Male Infertility' at 8th International Symposium on Spermatology, Montréal (PQ, Canada), August 1998. *Invited speaker.*
 171. van der Horst, G.; Kossakowski, J. & **Mortimer, D.**: "Sperm kinematic parameters in semen may be predictive of the percentage hyperactivation in culture medium." 8th International Symposium on Spermatology, Montréal (PQ, Canada), August 1998. Abstract P4-12.
 172. **Mortimer, D.**; Kossakowski, J. & Morrison, L.: "Reliable sperm concentration values using the IVOS computer-aided sperm analysis (CASA) machine." 8th International Symposium on Spermatology, Montréal (PQ, Canada), August 1998. Abstract P4-18.
 173. **Mortimer, D.**; Henman, M.; Catt, J.W. & Jansen, R.P.S.: "Reduced embryo fragmentation leads to higher implantation and pregnancy rates using improved IVF culture systems." 16th World Congress on Fertility and Sterility, San Francisco (CA, USA), October 1998. Abstract O-047. *Fertil. Steril.*
 174. **Mortimer, D.**: "CASA: Sperm concentration and motility." International Symposium on 'Clinical Application of Advances in Andrology' at the XVII Annual Scientific Meeting of the Fertility Society of Australia, Hobart (Tas, Australia), December 1998. *Invited speaker.*
 175. **Mortimer, D.**; Henman, M.; Catt, J.W.; Bowman, M.C. & Jansen, R.P.S.: "Development of an improved IVF culture system." XVII Annual Scientific Meeting of the Fertility Society of Australia, Hobart (Tas, Australia), December 1998.
 176. Kossakowski, J. & **Mortimer, D.**: "The impact of goal-orientated training on sperm motility assessment by inexperienced observers." XVII Annual Scientific Meeting of the Fertility Society of Australia, Hobart (Tas, Australia), December 1998.
 177. **Mortimer, D.**: "Human sperm kinematics in the diagnosis and management of male infertility." Session on 'New Developments in CASA' at Andrology in the Nineties, Stellenbosch, South Africa, March 1999. *Invited speaker.*
 178. Henman, M.J.; Catt, J.W. & **Mortimer, D.**: "The use of stage-specific culture media gives sustained high pregnancy and implantation rates. 11th World Congress on In Vitro Fertilization and Human Reproductive Genetics, Sydney, Australia, May 1999. Abstract O-013.
 179. Catt, J.W.; Henman, M.J. & **Mortimer, D.**: "A comparison between "in-house" and commercially produced culture media. 11th World Congress on In Vitro Fertilization and Human Reproductive Genetics, Sydney, Australia, May 1999. Abstract O-014.
 180. Murray, C.T. & **Mortimer, D.**: "Monitoring laboratory performance measures for quality assurance in IVF." 11th World Congress on In Vitro Fertilization and Human Reproductive Genetics, Sydney, Australia, May 1999. Abstract O-058.
 181. Cullinan, R.T.; **Mortimer, D.**; Catt, J.W.; Lyneham, R.L. & Jansen, R.P.S.: "ICSI fertilization of a zona-free oocyte resulting in the birth of healthy twins. 11th World Congress on In Vitro Fertilization and Human Reproductive Genetics, Sydney, Australia, May 1999. Abstract O-077.
 182. Fussell, S.; Henman, M.; **Mortimer, D.** & Catt, J.: "Optimization of embryo transfer and cryopreservation using stage specific media." 11th World Congress on In Vitro Fertilization and Human Reproductive Genetics, Sydney, Australia, May 1999. Abstract O-126.
 183. Cullinan, R.T.; **Mortimer, D.** & Catt, J.W.: "Retrospective analysis of embryo morphology from digital images in relation to cycle outcome." 11th World Congress on In Vitro Fertilization and Human Reproductive Genetics, Sydney,

- Australia, May 1999. Abstract P-066.
184. Henman, M.J.; Catt, J.W. & **Mortimer, D.**: “The use of stage-specific culture media gives high pregnancy and implantation rates after transfer of frozen embryos.” 11th World Congress on In Vitro Fertilization and Human Reproductive Genetics, Sydney, Australia, May 1999. Abstract P-070.
 185. Henman, M.J.; Catt, J.W. & **Mortimer, D.**: “The effect of EGF and TGF- α on supernumerary human embryos in vitro.” 11th World Congress on In Vitro Fertilization and Human Reproductive Genetics, Sydney, Australia, May 1999. Abstract P-072.
 186. de Boer, K.A.; Jansen, R.P.S.; Leigh, D.A. & **Mortimer, D.**: “Quantification of mitochondrial DNA (mtDNA) copy number in the human secondary oocyte.” 15th Annual Meeting of the European Society of Human Reproduction and Embryology, Tours (France), June 1999. Abstract O-165. *Hum. Reprod.*, **14** (Abstract Book 1): 91-92.
 187. **Mortimer, D.**: “The future of male infertility and ART.” 2nd International Alpha Congress, Copenhagen (Denmark), September 1999. Abstract O3. *Invited speaker.*
 188. **Mortimer, D.** & Mortimer, S.T.: “Computer-aided sperm analysis.” Nordic-Baltic Workshop on ‘New Concepts and Methods in Assessment of Semen Quality,’ Malmö (Sweden), November 1999. *Invited speaker.*
 189. **Mortimer, D.**: “The future of male infertility and ART.” Danish-Scandic Society for Studies on Male Reproduction, Malmö (Sweden), November 1999. *Invited speaker.*
 190. Bartels, P.; Lubbe, K.; Kilian, I.; Friedman, Y.; van Dyk, G. & **Mortimer, D.**: “In-vitro maturation and fertilization of lion (*Panthera leo*) oocytes using frozen-thawed epididymal spermatozoa recovered by cauda epididymectomy of an immobilized lion. International Embryo Transfer Society, Maastricht (Netherlands), January 2000. Poster.
 191. **Mortimer, D.**: “Sperm preparation for IUI and IVF.” Andrology Laboratory Workshop, American Society of Andrology, Boston (USA), April 2000. *Invited speaker.*
 192. **Mortimer, D.**: “Structured management as a basis for cost-effective infertility care.” Teesside Fertility Group, Middlesbrough (UK), July 2000. *Invited speaker.*
 193. **Mortimer, D.**: “Optimizing sperm function and genomic integrity during appropriate sperm preparation methods in modern ART.” Workshop on Advanced Management of Male Infertility, Middlesbrough (UK), July 2000. *Invited speaker.*
 194. **Mortimer, D.**: “The andrology lab and infertility.” Canadian Fertility and Andrology Society, St John’s (Newfoundland, Canada), September 2000. *Invited speaker.*
 195. **Mortimer, D.**: “Standardization of the basic semen analysis.” American Society for Reproductive Medicine, San Diego (CA, USA), October 2000. *Invited speaker.*
 196. Bartels, P.; Friedmann, Y.; Lubbe, K.; **Mortimer, D.**; Rasmussen, L.A. & Godke, R.A.: “The live birth of an eland (*Taurotragus oryx*) calf following estrous synchronization and artificial insemination using frozen-thawed epididymal sperm.” International Embryo Transfer Society, Omaha (NE, USA), January 2001. Poster. *Theriogenology*, **55**(1): 381.
 197. Raina, N.; Lubbe, K.; Vajta, G.; Bissett, C.; Theunissen, W.; **Mortimer, D.**; Friedmann, Y. & Bartels, P.: “In vitro maturation, fertilisation and blastocyst development in African buffalo (*Syncerus caffer*).” International Embryo Transfer Society, Omaha (NE, USA), January 2001. Poster. *Theriogenology*, **55**(1): 399.
 198. **Mortimer, D.**: “New products for semen/sperm analysis and preparation.” Symposium on ‘ART Media: Commercial and In-House Products’, American Association of Bioanalysts College of Reproductive Biology, Las Vegas (NV, USA), May 2000. *Invited speaker.*
 199. **Mortimer, D.**: “Sperm selection for ART.” Post-Graduate Course on ‘Sperm Function and WHO Criteria’, VII International Congress of Andrology, Montreal (QC, Canada), June 2001. *Invited speaker.*
 200. Mortimer, S.T.; Fluker, M.R.; Yuzpe, A.A. & **Mortimer, D.**: “Keeping the lab in control – Use of laboratory performance measures.” Canadian Fertility and Andrology Society, Whistler (BC, Canada), October 2001. Abstract FP4.
 201. **Mortimer, D.**: “Since the advent of ICSI, surgery no longer has a place in the treatment of male infertility. Pro side.” Debate, Canadian Fertility and Andrology Society, Whistler (BC, Canada), October 2001. *Invited speaker.*
 202. **Mortimer, D.**: “The future of male infertility and ART.” Global Congress on Gynecologic Endoscopy, Infertility and ART, Goa (India), December 6th 2001. *Invited keynote address.*
 203. **Mortimer, D.**: “Sperm form and function: Beauty is in the eye of the beholder.” 9th International Symposium on Spermatology, Cape Town (South Africa), October 2002. Abstract PL25. *Invited speaker.*
 204. **Mortimer, D.**: “Optimisation and quality management of IVF laboratory systems.” Association of Clinical Embryologists Annual Conference, Glasgow (UK), January 2003. *Invited speaker.*
 205. **Mortimer, D.**: “Is IUI effective in cases with male factor subfertility? Scientific aspects.” Pre-Congress Course on ‘Treating Male Subfertility: Controversies in the State-of-the-ART’, 19th Annual Meeting of the European Society of Human Reproduction and Embryology, Madrid (Spain), June-July 2003.
 206. **Mortimer D.**: “Basic quality control in andrology and embryology laboratories.” Symposium Sobre Reproducción Humana Asistida, Santiago de Compostela (Spain) November 2003. *Invited speaker.*

207. **Mortimer, D.:** “Andrology – Is it necessary. Standard approach to semen evaluation.” American Association of Bioanalysts College of Reproductive Biology, Las Vegas (NV, USA), May 2004. *Invited speaker.*
208. Lawrence, C.; **Mortimer, D.** & Hudson, S.P.: “The significance of a detailed semen evaluation for an intra-uterine insemination program.” Canadian Fertility and Andrology Society, Jasper (AB, Canada), November 2004. Abstract F02.
209. Lawrence, C.; **Mortimer, D.** & Hudson, S.P.: “Clinical pregnancy results in a new human IVF program.” Canadian Fertility and Andrology Society, Jasper (AB, Canada), November 2004. Abstract FP11.
210. **Mortimer, D.:** “Diagnostic Laboratory Andrology: The role of the andrology lab in the structured management of male factor infertility.” Indian Society for Assisted Reproduction 11th National Congress, pre-congress workshop on ‘Male Infertility and Andrology’, February 2006. *Guest lecturer.*
211. **Mortimer, D.:** “Quality and risk management in IVF.” Indian Society for Assisted Reproduction 11th National Congress, February 2006. *Invited speaker.*
212. **Mortimer, D.:** “Sperm handling.” Indian Society for Assisted Reproduction 11th National Congress, February 2006. *Invited speaker.*

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