

# **CURRICULUM VITAE**

*Kimball O. Pomeroy, Ph.D., HCLD*

## **Positions**

*Chief Science Officer, Ivy Fertility, July 2022 to present.*

*Science Director, The World Egg Bank, June 2014 - July 2022.*

*Laboratory Director, Florida Institute for Reproductive Sciences and Technologies, Weston, FL, Oct. 2019 – January 2022.*

*Laboratory Director American-Sino Women's and Children Hospital, Shanghai, China May 2016 to November 2018.*

*Laboratory Director, Gondra Women's Center for Reproductive Care and Advanced Gynecology. Phoenix, AZ. Dec. 2016 – present.*

*Science Director, South Florida Institute for Reproductive Medicine, November 2012 - 2015*

*Director, Fertility Laboratory, Arizona Reproductive Medicine Specialists, Phoenix, Arizona, July 1999 – October 2014.*

*Laboratory Director, University of Kansas School of Medicine IVF Program, December 2007 – February 2013.*

*IVF Laboratory Director, Instituto de In Vitro Fertilization, Santa Cruz, Bolivia, 2010 – January 2013..*

*Director of Laboratory Services, Faculty of Department of Obstetrics and Gynecology, Good Samaritan Hospital, Banner Health, 2000-2012.*

*Laboratory Director, Reproductive Health Center, Tucson, Arizona, 2004 to 2005*

*Director, Andrology Laboratory, Samaritan Institute of Reproductive Medicine, Phoenix, Arizona, July 1993-July 1999.*

*Director, In Vitro Fertilization Laboratory, Florida Institute for Reproductive Sciences and Technologies, Cooper City Florida, 1997-2001.*

*Director of Assisted Reproductive Technologies, Instituto de In Vitro Fertilization, Santa Cruz, Bolivia, October 1992-1995.*

*Director of Laboratories, Women's HealthCare Specialists, Mount Sinai Medical Center, Miami Beach, FL, April 1991-July 1993.*

*Director, In Vitro Fertilization Laboratory, Dept. Ob/Gyn, Hurley Medical Center, Flint, MI, January 1990-April 1991.*

*Post-Doctoral Fellow, The Salk Institute for Biological Studies, La Jolla, CA 1988-1990.*

## **Consulting**

*IVF Consultant for IVF Bahamas Limited, Nassau, Bahamas, 2007*

*IVF Consultant, Xinjiang Medical University, Urumqi, China 2006*

*Family Health International, Research Consultant and Laboratory Trainer, March 1999 to 2003, "Evaluation of Vasectomy Success," Mexico and Nepal.*

*The Population Counsel, Research Consultant and Laboratory Trainer, 1998, Mexico City.*

## **Education and Training**

*Southmead Hospital, Bristol Maternity Hospital, The Glen Hospital Bristol, England; IVF Training; Jan. 1990-March 1990.*

*The Salk Institute for Biological Studies; Post-Doctoral Training; 1988-1990.*

*Colorado State University; Department of Physiology, PhD 1989*

*Colorado State University; Department of Physiology, MS 1985*

*Brigham Young University; Provo, UT; Animal Sciences Department, BS 1981*

### **Memberships/Positions**

*Founding Board Member Southwest Embryology Summit 2011-present*  
*Chair, Web Committee, SART, 2011-2012*  
*American Association of Bioanalysts, Chairperson - College of Reproductive Biology 2009- 2010*  
*Executive Board Member (Laboratory Director Representative), Society for Assisted Reproductive Technologies, Oct 2006-Oct 2008*  
*Society for Assisted Reproductive Technologies; QA Committee; Web Site Committee; Embryo Morphology Ad Hoc Committee, 2007 to 2010*  
*International Society for Fertility Preservation, 2009-present*  
*Founding Member, Regulatory Task Force of the College of Reproductive Biology, 2007 to present*  
*Nomination Committee, Reproductive Biology Special Interest Group, 2006 to 2008*  
*Western Regional Chair, College of Reproductive Biology, 2007 to 2008.*  
*Chair, Reproductive Laboratory Technology Professional Group, 2003-2004.*  
*Board Member, Reproductive Laboratory Technology Professional Group, 2000-2004.*  
*Editor, Newsletter for Reproductive Technology Laboratory Professional Group, 1998-2000.*  
*American Society for Reproductive Medicine*  
*Reproductive Laboratory Technician's Professional Group*  
*Reproductive Biology Professional Group*  
*American Society of Andrology*  
*American Association of Bioanalysts*

### **Sentinel Projects**

*First IVF birth in Bahamas*  
*First GIFT birth in Bolivia*  
*First IVF baby birth in Bolivia*  
*Development of several database applications for management of IVF practices*

### **Other**

*Instructor, Advanced Course in Clinical Embryology, 2022.*  
*Designer and Instructor Advanced Statistics, Eastern Virginia Medical School, 2016*  
*Instructor Eastern Virginia Medical School, Oocyte Vitrification and Warming Workshop, Norfolk, VA May 27, 2016*  
*Editor for The Journal of Reproductive and Stem Cell Biotechnology*  
*Reviewer for Fertility and Sterility and Human Reproduction*  
*Adjunct Professor University of Arizona and South Mountain Community College (Department Math, Science and Engineering)*  
*Lecturer for OB/Gyn Residents at Good Samaritan Hospital, Phoenix, AZ*  
*Instructor: Biology for Majors, South Mountain Community College 2010-2012*  
*Instructor for special Bioethics class at Arizona State University each year as a guest lecturer*  
*Instructor: Medical Ethics class for University of Phoenix as a guest lecturer*  
*Instructor: Physiology lecture/lab at Colorado State University 1988*  
*Instructor: Outdoor classes at Rick's College, ID 1978*

### **Publications**

K. O. Pomeroy, P Comizzoli, JS Rushing, IL Lersten, L Nel-Themaat. *The ART of Cryopreservation and Its Changing Landscape. Fertility and Sterility* 117(3):469-476. 2022.

K. O Pomeroy and M C Schiewe. *Cryopreservation and IVF in the time of Covid-19: what is the best good tissue practice (GTP)? JARG* 37(10), 2393-2398. 2020

Mitch C Schiewe, K O Pomeroy and D Fish *Cryobanking: Quality Management of Cryogenic Storage Systems in Cryopreservation in Human Assisted Reproduction.* 2020

H. Ramadan, T. Pakrashi, A.R. Thurman, K. O. Pomeroy, and G. Celia, Jr., *Does Cryopreservation Affect the Implantation Potential of Blastocysts Derived from Vitrified/Warmed Oocytes?* 2020. *Fert. Steril.* 111:3 Supplement e294.

K. O. Pomeroy and M. L. Reed. In Press. "pH, Temperature, and Light" in *Textbook of Assisted Reproduction* Edited by Gautam Allahbadia, Baris Ata, Steven Lindheim, Bryan Woodward, and Bala Bhagavath's; published by Springer Nature Switzerland AG.

K. O. Pomeroy, M. L. Reed, B. LoManto, s. g. Harris, W. B. Hazelrigg and D. A. Kelk. 2019. *Cryostorage Tank Failures: Temperature and Volume Loss Over Time After Induced Failure by Removal of Insulative Vacuum.* In Press. *Journal of Assisted Reproduction and Genetics.* 36:2271-2278.

K. O. Pomeroy and M. Marcon. 2018. *Reproductive Tissue Storage: Quality Control and Management/Inventory Software.* *Semin. Reprod. Med* 36:280-288.

D. A, Kelk, Y. Liu, S.M. Nichols-Burns, J Lo, M. L. Reed and K. O. Pomeroy. 2018. *Analysis of a simulated liquid nitrogen storage tank failure.* *Fert. Steril.* 110:4 e18-e19.

K. O. Pomeroy. 2018. *Liquid Nitrogen Storage Tank Failure -Can We Improve the Current System?, Fert Steril.* <https://www.fertstertdialog.com/users/16110-fertility-and-sterility/posts/33372-pomeroy-consider-this>

E. Wood, K.O. Pomeroy, J. Ricard, N. Montalvo, I. Collazo, J. Eisermann. 2015. *Live birth rates and miscarriage rates with the use of calcium ionophore in patients with prior failed or poor fertilization.* *Fertil. Steril.*104:e240.

K.O. Pomeroy, G. De Meglio, J. Garcia, I. Collazo. 2015. *The Correlation of the Hyaluronan Binding Assay to Fertilization In Vitro.* *Fertil. Steril.*104:e304

I. Collazo, M.R. Johnson, K.O. Pomeroy, J. Eisermann, J. Perretti. 2015. *The Learning Curve in Warming Vitrified Ova.* *Fertil. Steril.*104:e202-203.

M. Bustillo, C. Alford, I. Collazo, K.O. Pomeroy. 2015. *The correlation of anti-mullerian hormone concentrations to oocyte maturity at retrieval.* *Fertil. Steril.*104:e300.

M. Bustillo, K.O. Pomeroy, S. Wyatt, I. Collazo, J. LaPalme-Ricard, J. Eisermann. 2014. *"No Transfer Rates" In Vitrified and Fresh Donor Oocytes Cycles – Implication for Fertility Preservation.* *Fertil. Steril.*101:e27.

Jenifer D McCarthy, MD, Kim Pomeroy, PhD, Maria Bustillo, MD, Inea Collazo, Jessica Ricard, BS, Melissa Johnson, BS and Juergen Eisermann, MD. 2014. *Predetermined Day 6 Embryo Transfer Does Not Decrease Clinical Pregnancy Rates.* *Fertil. Steril.* 101:e230.

Pomeroy, KO and Reed, ML. 2013. *The effects of light on embryos and embryo culture.* 2013. *J. Reproductive and Stem Cell Biotechnology* 3 (2):46-54.

Pomeroy, KO and Rakowsky, C. 2012 Patient and Tissue Identification in Assisted Reproductive Technology Laboratory. *Seminars in Reproductive Medicine* 30 (3):173-181.

Rakowsky, C, Stern, J, Gibbons, WE, Behr, B, Pomeroy, KO, and Biggers, JD. 2011. National collection of embryo morphology data into SART CORS: Associations among day 3 cell number, fragmentation and blastomere asymmetry and live birth rate, *Fertil. Steril.* 95:1985-1989.

Pomeroy, KO. 2010. Contamination of Human IVF Cultures by Microorganisms: A Review. *J. Clinical Embryology.* 13:11-18; 30.

M.P. Provost, K.O. Pomeroy, R.D. Gerkin, D.V. Moffitt. 2011 The luteinizing hormone response to a leuprolide acetate "Trigger" in in vitro fertilization consistently achieves acceptable retrieval efficiency, oocyte nuclear maturation, and fertilization rates. *Fertil. Steril.* 96, Issue 3, Supplement, Page S261

M.P. Provost, K.O. Pomeroy, R.D. Gerkin, D.V. Moffitt. 2011. Leuprolide acetate is not inferior to human chorionic gonadotropin as a "Trigger" in in vitro fertilization with respect to retrieval efficiency, oocyte nuclear maturation, and fertilization rate. *Fertil. Steril.* 96, Issue 3, Supplement, Page S19

Rakowsky, C, Vernon, M, Mayer, J, Ball, JD, Behr, B, Pomeroy, KO, Wittinger, D, Gibbons, W, Conaghan, J and Stern, JE. 2010. Standardization of Grading Embryo Morphology, *Fertil. Steril.* 94:1152- 1153.

Pomeroy, KO, Harris, S, Conaghan, J, Papadakis, M, Centola, G, Basuray, R and Battaglia, D. 2010. Storage of cryopreserved reproductive tissue: evidence that cross-contamination of infectious agents is a negligible risk. *Storage of cryopreserved reproductive tissues: evidence that cross-contamination of infectious agents is a negligible risk. Fert and Steril.* 94:1181- 1188.

Rakowsky, C, Stern, J, Gibbons, WE, Behr, B, Pomeroy, KO, and Biggers, JD. 2009. National Collection of Embryo Morphology Data In SARTCORS: Associations Among Cell Number, Fragmentation and Blastomere Asymmetry On Day 3 (D3) With Live Birth Rate *Fertil. Steril.*

Pomeroy KO, Foley S, Faber B, Moffitt DV and Johnson MD. 2009. A Comparison of Sequential Medium With Non-Sequential Medium: Do Some Patients' Embryos Culture Better In One Than In The Other? *Reproduction, Fertility and Development.* 21:162-163.

Rolene, N, Morbeck D, Pomeroy, KO, Keel B, Quinn P 2008. Sensitivity of Sperm and Embryo Bioassays in the American Association of Bioanalysts Proficiency Testing Program. *Fertil. Steril.* Vol. 90 Supplement, Pages S351-S352

Cai X, Pomeroy KO, Mattox JH. 2006. Application study of human sperm motility bioassay in IVF laboratory quality control. *Zhonghua Nan Ke Xue.* 12(7):625-8.

Cai X, Pomeroy KO, Mattox JH. 2006. Effect of the TYB Cryoprotectant and Two Freeze Methods on the Motility of Human Sperm *Journal Of Xinjiang Medical University* 29:.101-104.

Pomeroy, KO. 2005. "Treatment of Male Infertility Due to Sperm Surface Antibodies: IUI or IVF?" In: *Intrauterine Insemination.* ed. Gautam Allahbadia. CRC Press. pp. 407-418.

Cai X, Pomeroy KO, Faber B, Moffitt DV and Mattox JH. 2000. Effects of Sodium-Free Cryopreservation Media on Freezing Survival of Human Sperm. *Fertil. Steril.* 74 (Suppl 1): S257-S258.

Coetzee, K., TF Kruger, CJ Lombard, D Shaughnessy, S Oehninger, K Ozgur, KO Pomeroy and C Muller. 1999. Assessment of interlaboratory and intralaboratory sperm morphology readings with the use of a Hamilton Thorne Research integrated visual optical system semen analyzer. *Fertil. Steril.* 71:80-84.

Pomeroy, K. O. 1998. Treatment of Male Infertility Due to Sperm Surface Antibodies: IUI or IVF? In: Intrauterine Insemination; (Gautam Allahbadia, ed.); Rotunda Medical Technologies Pvt. Ltd.; Mumbai, India.

Kan, M. T., D. Moffitt, C. O'Malley, and K. Pomeroy. 1998. Development of a Neural Network to Predict Low Total Motile Count in Sperm Preparations Using Computer Assisted Semen Analysis Data. Oral Presentation at Annual Meeting of The American Society for Reproductive Medicine, San Francisco.

Telles, T. L., J. H. Mattox, K. O. Pomeroy and D. V. Moffitt. 1998. Combined Clomiphene Citrate (CC) with Human Menopausal Gonadotropins (HMGs) Versus Clomiphene Citrate Alone in Superovulation. Abstract Presentation at Annual Meeting of The American Society for Reproductive Medicine, San Francisco.

Serpa, N. and K. O. Pomeroy. 1995. Identifying Differences in Water Quality Using an Alternate Control Assay. Abstract at Annual Meeting of The American Society for Reproductive Medicine, Seattle, Washington.

Pomeroy, K.O. 1993. Cryopreservation of transgenic mouse lines, in Transgenesis Techniques, (Murphy, D. and Carter, D. A., eds.), Humana Press, Totowa, New Jersey, pp. 239-243.

Pomeroy, K.O. 1993. Cryopreservation of transgenic rat lines, in Transgenesis Techniques, (Murphy, D. and Carter, D. A., eds.), Humana Press, Totowa, New Jersey, pp. 269-270.

Pomeroy, K.O. 1993. Cryopreservation of transgenic sheep lines, in Transgenesis Techniques, (Murphy, D. and Carter, D. A., eds.), Humana Press, Totowa, New Jersey, pp. 305-306.

Pomeroy, K.O, Collazo, I and Serpa, N. 1993. Quality Control Testing in the Andrology Laboratory: Toxicity in Catheters Used for Intrauterine Inseminations. American Fertility Society Poster Presentation. P-082.

Pomeroy, K.O. 1991. Cryopreservation of transgenic mice. *Genetic Analysis Techniques and Applications* 8:95-101.

Pomeroy, K.O., M.I. Abuzeid, B. Ray and A. McDermott. 1991. Use of a simple quality control method for IVF and GIFT: Pregnancy results. E.S.H.R.E. Annual Meeting Poster Presentation.

Pomeroy, K.O., B. Ray, M.I. Abuzeid and A. McDermott. 1991. Effect of protein sources in a simple quality control assay. 7th World Congress on In Vitro Fertilization and Assisted Procreations. Poster Presentation.

Abuzeid, M.I., K.O. Pomeroy, U. Fahy, D. Fenner and M.G.R. Hull. 1991. Intrauterine insemination with superovulation in the treatment of non-tubal infertility. ESHRE 1991.

Pomeroy, K.O., C.P. Landel and G.A. Evans. 1989. Sperm vectors: effects of phenol red and DNase on binding of DNA to sperm. *J. Cell. Biochemistry*.

Pomeroy, K.O. 1989. Differentiation of embryonal carcinoma cells: murine leukemia virus DNA-binding proteins. Ph.D. Dissertation. Colorado State University.

Pomeroy, K.O., J.F. Dodds and G.E. Seidel, Jr. 1988. Caffeine promotes in vitro fertilization of mouse ova within 15 minutes. *J. Exp. Zool.* 248:207.

Pomeroy, K.O., J.F. Dodds and G.E. Seidel, Jr. 1987. Caffeine promotes in vitro fertilization of mouse oocytes by acting on the sperm. *J. Animal Science* 65:385.

Pomeroy, K.O. 1985. *Effects of ethanol on activation, fertilization and preimplantation development of mouse ova.* Master's Thesis. Colorado State University.

Pomeroy, K.O. and G.E. Seidel, Jr. 1985. *An activating dose of ethanol is detrimental to fertilization and development of mouse ova.* *Theriogenology* 23:218.

Kuzan, F.B., K.O. Pomeroy and G.E. Seidel, Jr. 1982. *Polyvinyl alcohol as a macromolecular substitute for bovine serum albumin in mouse embryo culture medium.* *Biology of Reprod.* 26:65A

### **Talks**

Progenesis Academy, "How to Prepare Your IVF Lab for a CAP Inspection," May 27, 2021

Progenesis Academy, "Contamination, Cross-Contamination and Infection Risks of Cryopreservation Due to Covid-19 Epidemic," April 22, 2020.

International IVF Initiative, Panelist, SARS-CoV-2 and IVF Revisited, April 10, 2020.

75<sup>th</sup> ASRM Scientific Congress and Expo, 2019, Symposium: *Egg freezing - Are you ready for prime time? Developing and implementing an egg freezing program in your practice. What does the science say?*

8<sup>th</sup> Annual Canadian Embryology Summit, 2019, Toronto, Canada, *Avoiding Accidents, Poor Results and Meltdowns.*

OBEX Embryology Conference New Zealand, Auckland, New Zealand, 2018, "The Risks of Cross-Contamination in Liquid Nitrogen Storage."

OBEX Embryology Conference New Zealand, Auckland, New Zealand, 2018, "Inside Egg Banking."

OBEX Embryology Conference New Zealand, Auckland, New Zealand, 2018, "The Flick Technique for Embryo Biopsying."

OBEX Embryology Conference New Zealand, Auckland, New Zealand, 2018, "The Best of The College of Reproductive Biology 2018 Conference."

OBEX Embryology Conference New Zealand, Auckland, New Zealand, 2018, "Cinderella Embryos."

College of Reproductive Biology, AAB Annual Meeting, Orlando, FL, May 2018, *Egg Banking from the Inside.*

College of Reproductive Biology, AAB Annual Meeting, Orlando, FL, May 2018, *Workshop: "Trouble Shooting the IVF Laboratory"*

Third Annual Upper Egypt Assisted Reproductive Conference, 2018, Cairo, Egypt, "Improving Vitrification".

Third Annual Upper Egypt Assisted Reproductive Conference, 2018, Cairo, Egypt, "Stop Doing That! – Three Things to Improve Outcomes".

Annual Southwest Embryology Summit, January 5-6 2018, Gilbert, AZ, "Practical Oocyte Vitrification."

Annual Southwest Embryology Summit, January 5-6 2018, Gilbert, AZ, "What to do With Poor Embryos."

*College of Reproductive Biology, AAB Annual Conference 2015, Las Vegas, NV "IVF Checklist Manifesto – Reducing Laboratory Errors Using Proven Techniques"*

*Fourth Southwest Embryology Summit, 2015. Las Vegas Nevada, First Annual Canadian Embryologists Summit, 2012, Toronto, Canada "Improving Vitrification."*

*12th Annual Clinical Embryologist Summit Conference, 2012, Madison, WI "Sperm Preparation Techniques"*

*Co-Founder and Lecturer, "Cross-Contamination Risks During Liquid Nitrogen Storage - What We Can Learn From Livestock", Southwest Embryology Summit, Las Vegas NV, 2012.*

*College of Reproductive Biology, Annual Meeting of AAB, Las Vegas 2010, "Bacterial Contamination of IVF Cultures: Who is the Culprit?" (Course Chair, also.)*

*11th Annual Embryology Summit Conference, 2011, Madison, WI " Protocol Drift and Maintaining Practice Consistency in the Laboratory"*

*ASRM Roundtable, 2009, "New Laboratory Developments in IVF."*

*9<sup>th</sup> Annual Clinical Embryologist Summit Conference, 2008, Madison, WI "The Potential Affects of the FDA Good Tissue Practices on IVF Laboratories."*

*ASRM Roundtable, 2007, "Detection of Embryo Toxins."*

*Lecture at University of Phoenix, April 11, 2005, Phoenix, AZ, "Reproductive Ethics: Cloning and Stem Cell Research", Graduate Ethics Course for Ray Kahler*

*AAB Andrology and Embryology Review Course 2004, Dallas, Texas, "Sperm Function Assays" and "Methods for Male Gamete Preparation"*

*AAB Quality Assurance/Quality Control Workshop for ART Laboratories. 2004. Dallas, Texas. Chair. "Detecting Toxins – Is the Mouse Embryo Bioassay a Gold Standard?"*

*ASRM Post-Graduate Course 2003. San Antonio, TX. Course Chair. "Tools for Continuous Perfection – Quality Control."*

*ASRM Post-Graduate Course 2003. San Antonio, TX. Course Chair. "Perfecting the Freezing of Day-3 Embryos."*

*4th Annual Embryology Summit Conference, May 10, 2003. Madison, WI. "QC - The Next Generation, Beyond Sperm and Mice."*

*Banner Health System. "New Reproductive Technologies and Their Impact on the Hospital." 2002*

*ASRM Roundtable. 2002. "Perfecting ICSI"*

*Arizona Ob/Gyn Biomedical Ethics Retreat. 2000. Phoenix, AZ. "Ethics of ART"*

*Delaware Virginia Reproductive Biologists Group. 2002. Philadelphia, PA "IVF Quality Control – Is the Emperor Nude?"*

*Serono Nurse Practitioner's Symposium 2002. Monterey, CA*

*ASRM Post-Graduate Course 1999. Ontario Canada. "Know Thy Equipment."*

*ASRM Post-Graduate Course 1999. Ontario Canada. "The Digital Laboratory: Image Processing and Databases"*

*The Internet for Clinicians. 1997. Workshop at Tenth National Conference for Nurses and Support Personnel in Reproductive Medicine. Vancouver, British Columbia.*

*Advanced Male Infertility. 1997. Workshop at Tenth National Conference for Nurses and Support Personnel in Reproductive Medicine. Vancouver, British Columbia.*

*New Concepts in Male Infertility. 1996. Lecture at Ninth National Conference for Nurses and Support Personnel in Reproductive Medicine. Scottsdale, AZ.*

*Basic Male Subfertility: Treating Childlessness and Subfertility. 1996. Workshop at Ninth National Conference for Nurses and Support Personnel in Reproductive Medicine. Scottsdale, AZ.*