

## **Marina O. Gvakharia, MD, PhD, HCLD, ELD**

Fertility and Reproductive Health Institute  
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### **Education and Licensure**

**MD** 1983 Tbilisi Medical Institute

1983 – 1985 Clinical Fellowship (Tbilisi Medical Academy, Endocrinology)

1985 – 1989 Postgraduate Student (Tbilisi Medical Academy, Endocrinology and Immunology)

**PhD** 1989 Immunology and Endocrinology, Tbilisi Medical Institute

**HCLD** 1998 American Board of Bioanalysis

### **Professional experience**

#### **Fertility and Reproductive Health Institute of Northern California, San Jose, CA**

July, 1997- present Director of Reproductive Laboratories

#### **Scott Department of Urology, Baylor College of Medicine, Houston, TX**

1996-1997 (July) Research Instructor & Clinical Andrology Laboratory Manager

1993-1996 Research Associate & Clinical Andrology Laboratory Manager

#### **Department of Endocrinology Tbilisi Medical Academy, Tbilisi, Republic of Georgia**

1989 - 1993 Assistant Professor, Department of Endocrinology and Adjunct Research Scientist, Laboratory of Immunogenetics (Tbilisi St. Medical Institute)

## PUBLICATIONS:

### Papers/Chapters

1. Gvakharia MO, Lipshultz LI, Lamb DJ. Human sperm microinjection into hamster oocytes: a new tool for training and evaluation of the technical proficiency of intracytoplasmic sperm injection. *Fertil Steril*. 2000 Feb;73(2):395-401.
2. Gvakharia M., Greer J., Lipshultz L., Lamb D. (1995) Treating male-factor infertility with ICSI. *Contemporary Urology*, Sept. Vol.&, No. 9, 58-67
3. Gvakharia M., Lipshultz L., Lamb D. (1996) Sperm Penetration Assay. *In: Infertility in the Male (3rd Edition)*, Editors L.I. Lipshultz and S.S. Howards, 512-15
4. Kim E., Gvakharia M., Lipshultz L., Lamb D. (1996) Gamete Micromanipulation: Intracytoplasmic Sperm Injection. *In: Atlas of the Urologic Clinics of North America*, 4, no 2, 67-82
5. Harding J., Greer J., Lipshultz L., Gvakharia M., Lamb D. (1996) *in vitro* Fertilization and Micromanipulation for Male Infertility. *In: Infertility in the Male (3rd Edition)*, Editors L.I. Lipshultz and S.S. Howards, 450-62
6. Vereb M, Gvakharia M and Lamb DJ: Intracytoplasmic sperm injection: The new frontier in male infertility treatment. In: *Advances in Urology*, Vol. 10. McGuire EJ, Bloom D, Catalona WJ and Lipshultz LI (eds.). St. Louis: Mosby-Year Book, Inc., 1997, pp. 71-83.
7. Khetsuriani N., Gvakharia M. Micromodification of Reaction of Agglutination of Erythrocytes, Tbilisi, 1988, *Ministry of Healthcare of Georgian SSR*, 10p
8. Gvakharia M.O. Predictive Role of HLA System for Determination of IDDM Risk-Groups in Georgian Population., 1988, *Ministry of Healthcare of Georgian SSR*, 9p.
9. Khetsuriani N.G., Gvakharia M.O. - HLA-B8 and Immunological Parameters in Georgians. *Proceedings of Georgian Academy of Sciences*, 1989, N2, 121-125

### Selected Abstracts

10. Baker VL, Gvakharia M, Adamson GD  
Elective transfer of two embryos on day 3 in good prognosis patients reduces triplet rate without detectable compromise of pregnancy rate *Fertility and Sterility* - April 2004 (Vol. 81, Issue (Supplement 3))
11. Marina Gvakharia, Julie L. Hubbard, G. David Adamson, Mark Hughes (2002)  
Single in vitro fertilization (IVF) cycle with blastomere biopsy for preimplantation

- genetic diagnosis (PGD) of Huntington's disease, assisted hatching and cryopreservation results in healthy baby and subsequent ongoing pregnancy, 58<sup>th</sup> Annual Meeting of the American Society for Reproductive Medicine
12. Julie L. Hubbard, Marina Gvakharia, Alex H. Kim, H. Preston Nelson, G. David Adamson (2002) Non-invasive observational studies of pronuclear morphology and embryo development, 58<sup>th</sup> Annual Meeting of the American Society for Reproductive Medicine
  13. M. Gvakharia , G.D. Adamson (2001) A method of successful cryopreservation of small numbers of human spermatozoa, 57<sup>th</sup> Annual Meeting of the American Society for Reproductive Medicine
  14. M. Gvakharia , G.D. Adamson (2001) A method of successful cryopreservation of small numbers of human spermatozoa, 57<sup>th</sup> Annual Meeting of the American Society for Reproductive Medicine
  15. M Gvakharia, J Hubbard, M Jablonsky, AH Kim, HP Nelson, GD Adamson (1999) In vitro blastocyst formation in two embryo culture systems. 55<sup>th</sup> Annual Meeting of the American Society for Reproductive Medicine
  16. M Gvakharia, M Jablonsky, J Hubbard, AH Kim, HP Nelson, GD Adamson (1999). Blastocyst development after conventional in vitro fertilization and intracytoplasmic sperm injection. Annual meeting of the Pacific Coast Fertility Society,
  17. AH Kim, M Gvakharia, J Hubbard, M Jablonsky, HP Nelson, GD Adamson. (1998). Pregnancy and implantation rates following blastocyst development. 54<sup>th</sup> Annual Meeting of the American Society for Reproductive Medicine
  18. M Jablonsky, J Hubbard, AH Kim,, HP Nelson, GD Adamson, M Gvakharia.(1998) The legal, ethical, and technical issues encountered in a case involving retrieval and cryopreservation of epididymal sperm 24 hours postmortem. 54<sup>th</sup> Annual Meeting of the American Society for Reproductive Medicine
  19. Gvakharia M., Lipshultz L., Lamb D (1995) Human Sperm Microinjection into Hamster Oocytes: A New Test for the Prediction of Intracytoplasmic Sperm Injection (ICSI) Outcome in IVF? *In: 51st Annual Meeting of American Society for Reproductive Medicine*
  20. Gvakharia M., Lipshultz L., Lamb D (1995) The Ultimate Micro-Sperm Penetration Assay: Subzonal Insertion of Sperm into Hamster Ova for the Assesment of Sperm Penetration Capacity. *In: 51st Annual Meeting of American Society for Reproductive Medicine*
  21. Kim E., Buster J., Carson S., Grunert G., Gvakharia M., Lamb D., Seaman E., Valdes C., Lipshultz L. (1996) ICSI for Male Factor Immunologic Infertility. *In: 1996 Annual Meeting of American Urological Assosiation*
  22. Seaman E., Kim E., Buster J., Carson S., Grunert G., Gvakharia M., Lamb D., Valdes C., Lipshultz L. (1996) Rescue ICSI after Failed IVF. *In: 1996 Annual Meeting of American Urological Assosiation*

23. Seaman E., Kim E., Buster J., Carson S., Grunert G., Gvakharia M., Lamb D., Valdes C., Lipshultz L. (1996) ICSI for Severe Male Factor Infertility *In: 1996 Annual Meeting of American Urological Assosiation*
24. Kim E., Buster J., Carson S., Grunert G., Gvakharia M., Lamb D., Seaman E., Valdes C., Lipshultz L. (1996) Ejaculatory Dysfunction Treated with Electroejaculation and ICSI. *In: 1996 Annual Meeting of American Urological Assosiation*
25. Gamkrelidze A., Gotua M., Khetsuriani N., Gvakharia M. - Prognostic significance of immunological and immunogenetic parameters in developing of atopy. *In EAACI Annual Meeting, Zurich, Schweizerische Medizinische Wochenschrift, 1991, Suppl.40/II, p.44*
26. Gotua M., Gamkrelidze A., Khetsuriani N., Gvakharia M. - Immunological parameters and HLA in atopic bronchial asthma // *Allergie & Immunologie, 1989, Suppl.5, p.20*
27. Gamkrelidze A., Khetsuriani N., Gotua M., Gvakharia M. - IgE, HLA and erythrocyte antigens in respiratory atopic diseases in Georgian population. *Abstracts of XIVth Congress of EAACI. "Alleergologie", 1989, September, Sondernummer, 18*
28. Khetsuriani N., Gvakharia M. - Modification of agglutination reaction for determination of erythrocyte antigens for microplate format. *Abstracts of Annual Conference of Association of Young Medicals of Georgia, Tbilisi, 1988, p.184*
29. Khetsuriani N., Gvakharia M. - Use of synthetic wool "POLLIORGS VII" for separation of B-lymphocytes. *Abstracts of Annual Conference of Association of Young Medicals of Georgia, Tbilisi, 1988, 229*
30. Gvakharia M.O., Iverieli V.P.-Some Stable Genetic Markers of Diabetes Mellitus. *SMAG proceedings. Tbilisi, 1988, 48-51*