



Lusine Aghajanova, M.D., Ph.D.

Clinical Assistant Professor, Obstetrics & Gynecology - Reproductive Endocrinology & Infertility

CLINICAL OFFICES

- **Stanford Medicine Fertility and Reproductive Health**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Aghajanova received her medical degree from Yerevan State Medical University in Armenia, followed by residency in obstetrics and gynecology, then completed PhD in Human Implantation at Karolinska Institute, Stockholm, Sweden, followed with embryology training at Karolinska Institute, with an Internship in Austria.

Subsequently, Dr. Aghajanova completed residency in obstetrics and gynecology at Baylor College of Medicine, Houston, Texas and at UC San Francisco with subsequent Reproductive Endocrinology and Infertility fellowship training at UC San Francisco. She is a respected researcher in the field of endometrial receptivity, implantation and endometriosis.

Dr. Aghajanova speaks Russian and Armenian and is very well published with over 50 peer-reviewed publications as well as numerous other oral and poster presentations and is a professional peer-reviewer for over 12 journals.

Dr. Aghajanova enjoys spending time with her husband and children, and traveling.

CLINICAL FOCUS

- Obstetrics and Gynecology
- Reproductive Endocrinology & Infertility
- Endometrial aspects of fertility

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Obstetrics & Gynecology - Reproductive Endocrinology & Infertility
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Residency: Baylor College of Medicine Obstetrics and Gynecology Residency (2012) TX
- Fellowship: UCSF Reproductive Endocrinology and Infertility Fellowship (2017) CA

- Residency: UCSF Obstetrics and Gynecology Residency (2014) CA
- Board Certification: Obstetrics and Gynecology, American Board of Obstetrics and Gynecology (2017)
- PhD, Karolinska Institute, Sweden (2006)
- Residency, Yerevan State Medical University, Armenia, Obstetrics & Gynecology (1999)
- MD, Yerevan State Medical University, Armenia, Medical Doctor (1996)

Research & Scholarship

CLINICAL TRIALS

- Platelet Rich Plasma for Patients With Recurrent Implantation Failure, Recruiting

Publications

PUBLICATIONS

- **Should we consider alternative therapies to operative hysteroscopy for the treatment of Asherman syndrome?** *Fertility and sterility*
Santamaria, X., Liu, J. H., Lusine, A., Isaacson, K., Movilla, P., Fernandez, H., Capmas, P., Donnez, J., Simon, C.
2020
- **Correction to: How good are we at modeling implantation?** *Journal of assisted reproduction and genetics*
Aghajanova, L.
2020
- **Cross-disorder analysis of endometriosis and its comorbid diseases reveals shared genes and molecular pathways and proposes putative biomarkers of endometriosis.** *Reproductive biomedicine online*
Vargas, E., Aghajanova, L., Gemzell-Danielsson, K., Altmae, S., Esteban, F. J.
2019
- **Levonorgestrel IUD: is there a long-lasting effect on return to fertility?** *Journal of assisted reproduction and genetics*
Dinehart, E., Lathi, R. B., Aghajanova, L.
2019
- **Growth Hormone and Endometrial Receptivity** *FRONTIERS IN ENDOCRINOLOGY*
Altmae, S., Aghajanova, L.
2019; 10
- **PREGNANCY SUCCESS RATES FOR LESBIAN COUPLES UNDERGOING INTRAUTERINE INSEMINATION.**
Johal, J. K., Vaughn, S. J., Greenwood, E. A., Aghajanova, L.
ELSEVIER SCIENCE INC.2019: E61
- **NATIONWIDE SURVEY OF ACCESS TO CARE INITIATIVES IN REI PRACTICES ASSOCIATED WITH OB/GYN RESIDENCY PROGRAMS.**
Jackson-Bey, T., Mehr, H., Ho, J., Aghajanova, L., Quinn, M. M., Hoffman, J., Herndon, C. N.
ELSEVIER SCIENCE INC.2019: E111
- **CLINICAL EXPOSURE IN OB/GYN RESIDENT TRAINING PROGRAMS IN THE UNITED STATES TO INFERTILITY CARE FOR LOW RESOURCE AND UNDERSERVED COMMUNITIES.**
Mehr, H., Jackson-Bey, T., Ho, J., Aghajanova, L., Quinn, M. M., Hoffman, J., Herndon, C. N.
ELSEVIER SCIENCE INC.2019: E405–E406
- **INFERTILITY, FERTILITY PRESERVATION, AND ACCESS TO CARE DURING TRAINING: A NATION-WIDE MULTI-SPECIALTY SURVEY OF UNITED STATES RESIDENTS AND FELLOWS.**
Wang, A., Herndon, C. N., Mok-Lin, E., Aghajanova, L.
ELSEVIER SCIENCE INC.2019: E407
- **EFFECT OF ESTRACE ON PREGNANCY RATES FOR WOMEN WITH THIN ENDOMETRIAL LINING UNDERGOING INTRAUTERINE INSEMINATION.**
Johal, J. K., Vaughn, S. J., Aghajanova, L.

ELSEVIER SCIENCE INC.2019: E335

- **Platelet-rich plasma in the management of Asherman syndrome: case report.** *Journal of assisted reproduction and genetics*
Aghajanova, L., Cedars, M. I., Huddleston, H. G.
2018
- **In vitro evidence that platelet-rich plasma stimulates cellular processes involved in endometrial regeneration.** *Journal of assisted reproduction and genetics*
Aghajanova, L., Houshdaran, S., Balayan, S., Manvelyan, E., Irwin, J. C., Huddleston, H. G., Giudice, L. C.
2018
- **Obstetrics and Gynecology Residency and Fertility Needs.** *Reproductive sciences*
Aghajanova, L., Hoffman, J., Mok-Lin, E., Herndon, C. N.
2017; 24 (3): 428-434
- **Meta-signature of human endometrial receptivity: a meta-analysis and validation study of transcriptomic biomarkers.** *Scientific reports*
Altmäe, S., Koel, M., Vösa, U., Adler, P., Suhorutšenko, M., Laisk-Podar, T., Kukushkina, V., Saare, M., Velthut-Meikas, A., Krjutškov, K., Aghajanova, L., Lalitkumar, P. G., Gemzell-Danielsson, et al
2017; 7 (1): 10077
- **Demographic analysis of a low resource, socioculturally diverse urban community presenting for infertility care in a United States public hospital.** *Contraception and reproductive medicine*
Ho, J. R., Hoffman, J. R., Aghajanova, L., Smith, J. F., Cardenas, M., Herndon, C. N.
2017; 2: 17
- **Effects of noncavity-distorting fibroids on endometrial gene expression and function.** *Biology of reproduction*
Aghajanova, L., Houshdaran, S., Irwin, J. C., Giudice, L. C.
2017; 97 (4): 564–76
- **Global Transcriptome Abnormalities of the Eutopic Endometrium From Women With Adenomyosis** *REPRODUCTIVE SCIENCES*
Herndon, C. N., Aghajanova, L., Balayan, S., Erikson, D., Barragan, F., Goldfien, G., Vo, K. C., Hawkins, S., Giudice, L. C.
2016; 23 (10): 1289-1303
- **Stanniocalcin-1 expression in normal human endometrium and dysregulation in endometriosis** *FERTILITY AND STERILITY*
Aghajanova, L., Altmäe, S., Kasvandik, S., Salumets, A., Stavreus-Evers, A., Giudice, L. C.
2016; 106 (3): 681-?
- **Birth of a healthy child after pre-implantation genetic screening of embryos from sperm of a man with nonmosaic Down syndrome** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*
Aghajanova, L., Popwell, J. M., Chetkowski, R. J., Herndon, C. N.
2016; 33 (5): 675-675
- **Impact of pituitary suppression on antral follicle count and oocyte recovery after ovarian stimulation** *FERTILITY AND STERILITY*
Tran, N. D., Aghajanova, L., Kao, C., Cedars, M. I., Rosen, M. P.
2016; 105 (3): 690-696
- **Prepubertal Gynecomastia Due to Indirect Exposure to Nonformulary Bioidentical Hormonal Replacement Therapy A Case Report** *JOURNAL OF REPRODUCTIVE MEDICINE*
De Pinho, J. C., Aghajanova, L., Herndon, C. N.
2016; 61 (1-2): 73-77
- **What do we know about endometrial receptivity in women with endometriosis? A molecular perspective** *REPRODUCTIVE BIOMEDICINE ONLINE*
Altmäe, S., Aghajanova, L.
2015; 31 (5): 581-583
- **Birth of a healthy child after preimplantation genetic screening of embryos from sperm of a man with non-mosaic Down syndrome** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*
Aghajanova, L., Popwell, J. M., Chetkowski, R. J., Herndon, C. N.
2015; 32 (9): 1409-1413
- **No evidence for mutations in NLRP7, NLRP2 or KHDC3L in women with unexplained recurrent pregnancy loss or infertility** *HUMAN REPRODUCTION*
Aghajanova, L., Mahadevan, S., Altmäe, S., Stavreus-Evers, A., Regan, L., Sebire, N., Dixon, P., Fisher, R. A., Van den Veyver, I. B.

2015; 30 (1): 232-238

- **Infiltrative Neurosarcoidosis Presenting as Secondary Amenorrhea Case Report and Review of the Literature** *OBSTETRICAL & GYNECOLOGICAL SURVEY*
Aghajanova, L., Jaffe, R. B., Herndon, C. N.
2013; 68 (6): 482-488
- **Sex selection for nonhealth-related reasons. The virtual mentor : VM**
Aghajanova, L., Valdes, C. T.
2012; 14 (2): 105-111
- **Perivascular Human Endometrial Mesenchymal Stem Cells Express Pathways Relevant to Self-Renewal, Lineage Specification, and Functional Phenotype** *BIOLOGY OF REPRODUCTION*
Spitzer, T. L., Rojas, A., Zelenko, Z., Aghajanova, L., Erikson, D. W., Barragan, F., Meyer, M., Tamaresis, J. S., Hamilton, A. E., Irwin, J. C., Giudice, L. C.
2012; 86 (2)
- **Nuclear Receptor, Coregulator Signaling, and Chromatin Remodeling Pathways Suggest Involvement of the Epigenome in the Steroid Hormone Response of Endometrium and Abnormalities in Endometriosis** *REPRODUCTIVE SCIENCES*
Zelenko, Z., Aghajanova, L., Irwin, J. C., Giudice, L. C.
2012; 19 (2): 152-162
- **Comparative Transcriptome Analysis of Human Trophectoderm and Embryonic Stem Cell-Derived Trophoblasts Reveal Key Participants in Early Implantation** *BIOLOGY OF REPRODUCTION*
Aghajanova, L., Shen, S., Rojas, A. M., Fisher, S. J., Irwin, J. C., Giudice, L. C.
2012; 86 (1)
- **Biobanking human endometrial tissue and blood specimens: standard operating procedure and importance to reproductive biology research and diagnostic development** *FERTILITY AND STERILITY*
Sheldon, E., Vo, K. C., McIntire, R. A., Aghajanova, L., Zelenko, Z., Irwin, J. C., Giudice, L. C.
2011; 95 (6): 2120-U302
- **Unique Transcriptome, Pathways, and Networks in the Human Endometrial Fibroblast Response to Progesterone in Endometriosis** *BIOLOGY OF REPRODUCTION*
Aghajanova, L., Tatsumi, K., Horcajadas, J. A., Zamah, A. M., Esteban, F. J., Herndon, C. N., Conti, M., Giudice, L. C.
2011; 84 (4): 801-815
- **Molecular Evidence for Differences in Endometrium in Severe Versus Mild Endometriosis** *REPRODUCTIVE SCIENCES*
Aghajanova, L., Giudice, L. C.
2011; 18 (3): 229-251
- **Effect of bisphenol A on human endometrial stromal fibroblasts in vitro** *REPRODUCTIVE BIOMEDICINE ONLINE*
Aghajanova, L., Giudice, L. C.
2011; 22 (3): 249-256
- **Thyroid-stimulating hormone receptor and thyroid hormone receptors are involved in human endometrial physiology** *FERTILITY AND STERILITY*
Aghajanova, L., Stavreus-Evers, A., Lindeberg, M., Landgren, B., Sparre, L. S., Hovatta, O.
2011; 95 (1): 230-U798
- **Diminished Endometrial Expression of Ghrelin and Ghrelin Receptor Contributes to Infertility** *REPRODUCTIVE SCIENCES*
Aghajanova, L., Rumman, A., Altmae, S., Wanggren, K., Stavreus-Evers, A.
2010; 17 (9): 823-832
- **Update on the role of leukemia inhibitory factor in assisted reproduction** *CURRENT OPINION IN OBSTETRICS & GYNECOLOGY*
Aghajanova, L.
2010; 22 (3): 213-219
- **The Bone Marrow-Derived Human Mesenchymal Stem Cell: Potential Progenitor of the Endometrial Stromal Fibroblast** *BIOLOGY OF REPRODUCTION*
Aghajanova, L., Horcajadas, J. A., Esteban, F. J., Giudice, L. C.
2010; 82 (6): 1076-1087
- **The Protein Kinase A Pathway-Regulated Transcriptome of Endometrial Stromal Fibroblasts Reveals Compromised Differentiation and Persistent Proliferative Potential in Endometriosis** *ENDOCRINOLOGY*

- Aghajanova, L., Horcajadas, J. A., Weeks, J. L., Esteban, F. J., Nezhat, C. N., Conti, M., Giudice, L. C.
2010; 151 (3): 1341-1355
- **Altered Gene Expression Profiling in Endometrium: Evidence for Progesterone Resistance** *SEMINARS IN REPRODUCTIVE MEDICINE*
Aghajanova, L., Velarde, M. C., Giudice, L. C.
2010; 28 (1): 51-58
 - **Increased Mitogen-Activated Protein Kinase/Extracellularly Regulated Kinase Activity in Human Endometrial Stromal Fibroblasts of Women with Endometriosis Reduces 3',5'-Cyclic Adenosine 5'-Monophosphate Inhibition of Cyclin D1** *ENDOCRINOLOGY*
Velarde, M. C., Aghajanova, L., Nezhat, C. R., Giudice, L. C.
2009; 150 (10): 4701-4712
 - **MicroRNA expression profiling of eutopic secretory endometrium in women with versus without endometriosis** *MOLECULAR HUMAN REPRODUCTION*
Burney, R. O., Hamilton, A. E., Aghajanova, L., Vo, K. C., Nezhat, C. N., Lessey, B. A., Giudice, L. C.
2009; 15 (10): 625-631
 - **The Progesterone Receptor Coactivator Hic-5 Is Involved in the Pathophysiology of Endometriosis** *ENDOCRINOLOGY*
Aghajanova, L., Velarde, M. C., Giudice, L. C.
2009; 150 (8): 3863-3870
 - **Disturbances in the LIF pathway in the endometrium among women with unexplained infertility** *FERTILITY AND STERILITY*
Aghajanova, L., Altmae, S., Bjuresten, K., Hovatta, O., Landgren, B., Stavreus-Evers, A.
2009; 91 (6): 2602-2610
 - **Receptors for thyroid-stimulating hormone and thyroid hormones in human ovarian tissue** *REPRODUCTIVE BIOMEDICINE ONLINE*
Aghajanova, L., Lindeberg, M., Carlsson, I. B., Stavreus-Evers, A., Zhang, P., Scott, J. E., Hovatta, O., Skjoldebrand-Sparre, L.
2009; 18 (3): 337-347
 - **Steroidogenic Enzyme and Key Decidualization Marker Dysregulation in Endometrial Stromal Cells from Women with Versus Without Endometriosis** *BIOLOGY OF REPRODUCTION*
Aghajanova, L., Hamilton, A., Kwintkiewicz, J., Vo, K. C., Giudice, L. C.
2009; 80 (1): 105-114
 - **HB-EGF but not amphiregulin or their receptors HER1 and HER4 is altered in endometrium of women with unexplained infertility** *REPRODUCTIVE SCIENCES*
Aghajanova, L., Bjuresten, K., Altmae, S., Landgren, B., Stavreus-Evers, A.
2008; 15 (5): 484-492
 - **Uterine receptivity to human embryonic implantation: Histology, biomarkers, and transcriptomics** *SEMINARS IN CELL & DEVELOPMENTAL BIOLOGY*
Aghajanova, L., Hamilton, A. E., Giudice, L. C.
2008; 19 (2): 204-211
 - **Glycodelin is present in pinopodes of receptive-phase human endometrium and is associated with down-regulation of progesterone receptor B** *FERTILITY AND STERILITY*
Stavreus-Evers, A., Mandelin, E., Koistinen, R., Aghajanova, L., Hovatta, O., Seppala, M.
2006; 85 (6): 1803-1811
 - **Expression of leukemia inhibitory factor and its receptors is increased during differentiation of human embryonic stem cells.** *Fertility and sterility*
Aghajanova, L., Skottman, H., Strömberg, A. M., Inzunza, J., Lahesmaa, R., Hovatta, O.
2006; 86 (4 Suppl): 1193-1209
 - **Gender-specific alteration of adrenergic responses in small femoral arteries from estrogen receptor-beta knockout mice** *HYPERTENSION*
Luksha, L., Poston, L., Gustafsson, J. A., Aghajanova, L., Kublickiene, K.
2005; 46 (5): 1163-1168
 - **Optimizing cryopreservation of human testicular tissue: comparison of protocols with glycerol, propanediol and dimethylsulphoxide as cryoprotectants** *HUMAN REPRODUCTION*
Keros, V., Rosenlund, B., Hultenby, K., Aghajanova, L., Levkov, L., Hovatta, O.
2005; 20 (6): 1676-1687
 - **Leukemia inhibitory factor and human embryo implantation** *UTERUS AND HUMAN REPRODUCTION*

Aghajanova, L.

2004; 1034: 176-183

- **Coexpression of pinopodes and leukemia inhibitory factor, as well as its receptor, in human endometrium** *FERTILITY AND STERILITY*

Aghajanova, L., Stavreus-Evers, A., Nikas, Y., Hovatta, O., Landgren, B. M.

2003; 79: 808-814

- **Co-existence of heparin-binding epidermal growth factorlike growth factor and pinopodes in human endometrium at the time of implantation** *MOLECULAR HUMAN REPRODUCTION*

Stavreus-Evers, A., Aghajanova, L., Brismar, H., Eriksson, H., Landgren, B. M., Hovatta, O.

2002; 8 (8): 765-769

- **Endometrial pinopodes: some more understanding on human implantation?** *Reproductive biomedicine online*

Nikas, G., Aghajanova, L.

2002; 4: 18-23