



Rajesh K. Srivastava, Ph.D.

Assistant Professor

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EDUCATION

PhD Zoology | India-Banaras Hindu U, Varanasi | 1988

MS Zoology | India-Univ of Gorakhpur | 1979

BS Biology | India-Univ of Gorakhpur | 1976

POST-DOCTORAL TRAINING AND RESIDENCY

Research Associateship in Department of Physiology and Biophysics, University of Illinois at Chicago
Medical Center, Chicago, IL. | April 1993 - August 1996

Postdoctoral training in Department of Physiology at Morehouse School of Medicine, Atlanta, GA. |
March 1992 - April 1993

Postdoctoral training in Department of Physiology at Morehouse School of Medicine, Atlanta, GA. | July
1989 - February 1992

FELLOWSHIP AWARDS

PRE-DOCTORAL

Senior Research Fellowship from Department of Atomic Energy, Government of India. | 1985 - 1988

Graduate Research Fellowship from University Grants Commission, India. | 1982 - 1984

POST-DOCTORAL

Postdoctoral Fellowship from NIH. | 1993 - 1996

Postdoctoral Fellowship from NIH. | 1991 - 1993

Postdoctoral Fellowship from The Rockefeller Foundation, New York. | 1989 - 1991

CERTIFICATIONS

BOARD

Laboratory Director Certification in Endocrinology from NYS Department of Health. | 2008

Laboratory Director Certification in Andrology from NYS Department of Health. | 2006

High Complexity Laboratory Director Certification (HCLD) from American Board of Bioanalysis (ABB) in
Embryology and Andrology. | 2001

FACULTY APPOINTMENTS

Assistant Professor | Obstetrics and Gynecology | SMD | 2006 - Present

Assistant Professor | Pathology and Laboratory Medicine | SMD | 2005 - Present

APPOINTMENTS

ACADEMIC - EXTERNAL

Assistant Professor, Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology. | *January 2006 - Present*

ACADEMIC - INTERNAL

Laboratory Director, Strong Fertility Center. | *January 2006 - Present*

OTHER

Assistant Professor-Department of Pathology and Reproductive Medicine (Secondary appointment). | *January 2006 - Present*

MEMBERSHIPS

PROFESSIONAL

American Society for Reproductive Medicine, AL. | *2004 - Present*

Endocrine Society, MD. | *1994 - 1997*

Society for the Study of Reproduction, Madison, WI. | *1993 - 1996*

AWARDS AND HONORS

Constance Campbell Award for the best paper presentation at the Fifteenth Symposium in Reproductive Biology at Northwestern University, Evanston, IL. | *1994*

Postdoctoral fellowship from The Rockefeller Foundation, New York. | *1989 - 1991*

Senior Research Fellowship from Department of Atomic Energy, Government of India. | *1985 - 1988*

Graduate Research Fellowship from University Grants Commission | *1982 - 1984*

COURSES

TAUGHT

Embryology Course to third year medical students at URMC.

PROFESSIONAL ASSIGNMENTS

OTHER

Laboratory Director- Fertility Center and Applied Genetics of Florida, Sarasota, FL. | *September 1999 - December 2005*

Assistant Lab director-Boston Regional Center for Reproductive Medicine, Stoneham, MA. | *January 1999 - July 1999*

Staff Scientist- Faulkner Center for Reproductive Medicine, Boston, MA. | *September 1996 - December 1998*

JOURNAL ARTICLES

Hambartsumian E; Srivastava RK; Seibel MM. "Differential expression and regulation of inducible nitric oxide synthase (iNOS) mRNA in human trophoblasts in vitro." American journal of reproductive immunology (New York, N.Y. : 1989). 2001;45(2):78-85.

Sridaran, R.; Lee, MA.; Haynes, L.; Srivastava, RK.; Ghose, M.; Sridaran, G.; Smith, CJ. "GnRH action on luteal steroidogenesis during pregnancy." Steroids 64 (1999): 618-623.

Deb S; Tessier C; Prigent-Tessier A; Barkai U; Ferguson-Gottschall S; Srivastava RK; Faliszek J; Gibori G. "The expression of interleukin-6 (IL-6), IL-6 receptor, and gp130-kilodalton glycoprotein in the rat decidua and a decidual cell line: regulation by 17beta-estradiol and prolactin." *Endocrinology*. 1999;140(10):4442-50.

Sugino N; Zilberstein M; Srivastava RK; Telleria CM; Nelson SE; Risk M; Chou JY; Gibori G. "Establishment and characterization of a simian virus 40-transformed temperature-sensitive rat luteal cell line." *Endocrinology*. 1998;139(4):1936-42.

Telleria CM; Zhong L; Deb S; Srivastava RK; Park KS; Sugino N; Park-Sarge OK; Gibori G. "Differential expression of the estrogen receptors alpha and beta in the rat corpus luteum of pregnancy: regulation by prolactin and placental lactogens." *Endocrinology*. 1998;139(5):2432-42.

Feingold M; Zilberstein M; Srivastava RK; Seibel MM; Bar-Ami S; Hambartsoumian E. "Expression of Wilms' tumor suppressor gene (WT1) in term human trophoblast: regulation by cyclic adenosine 3',5'-monophosphate." *The Journal of clinical endocrinology and metabolism*. 1998;83(7):2503-8.

Srivastava RK; Gu Y; Ayloo S; Zilberstein M; Gibori G. "Developmental expression and regulation of basic fibroblast growth factor and vascular endothelial growth factor in rat decidua and in a decidual cell line." *Journal of molecular endocrinology*. 1998;21(3):355-62.

Krishna A; Srivastava RK; Sridaran R. "Effects of short-term treatment of a gonadotropin-releasing hormone agonist on the follicular development and gonadotropin secretion in the rat." *Endocrine research*. 1996;22(3):299-310.

Gu Y; Srivastava RK; Clarke DL; Linzer DI; Gibori G. "The decidual prolactin receptor and its regulation by decidua-derived factors." *Endocrinology*. 1996;137(11):4878-85.

Gu Y; Srivastava RK; Ou J; Krett NL; Mayo KE; Gibori G. "Cell-specific expression of activin and its two binding proteins in the rat decidua: role of alpha 2-macroglobulin and follistatin." *Endocrinology*. 1995;136(9):3815-22.

Srivastava RK; Krishna A; Sridaran R. "Follicular development, steroidogenesis and gonadotrophin secretion in response to long-term treatment with a gonadotrophin-releasing hormone agonist in the rat." *The Journal of endocrinology*. 1995;146(2):349-57.

Srivastava RK; Gu Y; Zilberstein M; Ou JS; Mayo KE; Chou JY; Gibori G. "Development and characterization of a simian virus 40-transformed, temperature-sensitive rat antimesometrial decidual cell line." *Endocrinology*. 1995;136(5):1913-9.

Srivastava RK; Akinbami MA; Mann DR. "Acute immobilization stress alters LH and ACTH release in response to administration of N-methyl-D,L-aspartic acid in peripubertal and adult male rats." *Life sciences*. 1995;56(18):1535-43.

Srivastava RK; Sridaran R. "Inhibition of luteal steroidogenesis by two LHRH antagonists (Nal-Glu and Nal-Arg antagonists) in the pregnant rat." *Endocrine research*. 1994;20(4):365-76.

Gu Y; Soares MJ; Srivastava RK; Gibori G. "Expression of decidual prolactin-related protein in the rat decidua." *Endocrinology*. 1994;135(4):1422-7.

Srivastava RK; Luu-The V; Marrone BL; Sridaran R. "Suppression of luteal steroidogenesis by an LHRH antagonist (Nal-Lys antagonist: antide) in vitro during early pregnancy in the rat." *Journal of molecular endocrinology*. 1994;13(1):87-94.

Srivastava RK; Luu-The V; Marrone BL; Harris-Hooker S; Sridaran R. "Inhibition of steroidogenesis by luteal cells of early pregnancy in the rat in response to in vitro administration of a gonadotropin-releasing hormone agonist." *The Journal of steroid biochemistry and molecular biology*. 1994;49(1):73-9.

Srivastava, RK.; Taylor, MF.; Mann, DR. "Effect of immobilization stress on plasma luteinizing hormone, testosterone, and corticosterone concentrations and on 3 Beta-hydroxysteroid dehydrogenase activity in the testes of adult rats." *Proceedings of Society of Experimental Biology and Medicine* 204 (1993): 231-235.

Srivastava RK; Sridaran R. "Antireproductive effect of a potent LHRH antagonist (Nal-Lys antagonist:antide) during early pregnancy in the rat." *Contraception*. 1991;44(2):209-16.

Srivastava, RK.; Gupta, IM. "Comparative effects of FSH, LH and homoplastic pars distalis homogenate on the spermatogenesis of frog *Rana tigrina* during spermatogenetic recrudescence phase." *European Archives of Biology* 101 (1990): 89-99.

Srivastava, RK.; Gupta, IM. "Quantitative histological study of cyclic spermatogenesis in frog *Rana tigrina*." *Comparative Physiology and Ecology* 9 (1984): 233-237.

BOOKS AND CHAPTERS

Gibori G; Gu Y; Srivastava RK. "Differential gene expressions and programmed cell death in the two cell populations forming rat decidua.". *Molecular and Cellular aspects of Periimplantation Processes..* Dey SK. New York: Springer-Verlag, 1995. 67-83.

Srivastava RK; Harris-Hooker S; Sridaran R. "Inhibitory effects of in vivo and in vitro treatment of a LHRH antagonist (Nal-Lys; antide) on progesterone levels during early pregnancy in the rat.". *Signalling Mechanism and Gene Expression in the Ovary..* Gibori G. New York: Springer-Verlag, 1991. 385-390.

Sridaran R; Srivastava RK; Harris-Hooker S.. "Suppression of luteal production of progesterone in vitro by a gonadotropin-releasing hormone agonist during pregnancy.". *Signalling Mechanism and Gene Expression in the Ovary*. Gibori G. New York: Springer-Verlag, 1991. 380-384.

Sridaran R; Krishna A; Srivastava RK. "Effects of long-term treatment of a gonadotropin-releasing hormone agonist on ovarian function in the rat.". *Signalling Mechanism and Gene Expression in the Ovary*. Gibori G. New York: Springer-Verlag, 1991. 391-394.

MISC. PUBLICATIONS

Rajesh K. Srivastava; Peter Wieckowski Peter; Pabon JE 2004). Improvements in blastocyst Cryopreservation: Modifications of the common two-step protocol. *Clinical Embryologist* 7(4): 17-20, 2004.

ABSTRACTS

Pabon JE, Harton GL, Seabaugh A, Maitta R, Srivastava RK. Successful implantation and ongoing pregnancy of a single monosomy 16 preimplantation embryo: case report. *Conjoint Annual Meeting of ASRM & CFAS 2005, Montreal, Canada. Abstract # P-503. | 2005*

Seabaugh A, Pabon JE, Srivastava RK. Evaluation of frozen thawed embryo outcome after transportation to a long-term storage facility versus in-house storage facility. *Conjoint Annual Meeting of ASRM & CFAS 2005, Montreal, Canada. Abstract # P-99. | 2005*

Srivastava RK, Harton, GL, Seabaugh A, Pabon JE. Blastocyst formation is not highly predictive of a normal chromosome status of preimplantation embryo. *Conjoint Annual Meeting of ASRM & CFAS 2005, Montreal, Canada. Abstract # P-498. | 2005*

Srivastava RK, Wieckowski P, Pabon JE. Improved outcome of cryopreserved blastocyst transfer after a modification of two step protocol. *Annual meeting of ASRM 2004, Philadelphia, PA. Abstract #P-58 | 2004*

Hambartsoumian E, Srivastava RK, Seibel MM. Homocysteine (H) induces the Chorionic hormone production in human trophoblast but does not alter the levels of endothelial and inducible nitric oxide synthase (eNOS and iNOS) gene expression in vitro. *55th Annual Meeting of the American Society for Reproductive Medicine, Toronto, Canada. Abstract # O-199. | 1999*

Bar-Ami S, Yin H-Z, Srivastava RK, Zilberstein, Seibel MM. Low IVF parameters in women yielding oocytes from binovular follicles. *16th World Congress on fertility and sterility and the 54th Annual meeting of the American Society for Reproductive Medicine, San Francisco, CA. Abstract # P-680. | 1998*

Hambartsoumian E, Seibel MM, Srivastava RK, Pigassi A, Feingold M. Inducible nitric oxide synthase (iNOS) gene expression in human trophoblast: regulation by cytokines. 16th World Congress on Fertility and Sterility and the 54th Annual meeting of the American Society for Reproductive Medicine, San Francisco, CA. Abstract # O-165 | 1998

Gibori G, Sugino N, Telleria CM, Srivastava RK, Risk M, Chou JY, Zilberstein M. Establishment and characterization of a simian virus 40-transformed temperature sensitive rat decidual cell-line. 30th Annual Meeting for the Society for study of Reproduction, Portland, OR. Abstract # 112. | 1997

Hambartsoumian E, Zilberstein M, Seibel MM, Feingold M, Srivastava RK. Wilm's tumor suppressor gene (WT 1) is expressed in human term trophoblasts and regulated by cAMP. 53rd Annual Meeting of the American Society for Reproductive Medicine, Cincinnati, OH. Abstract # P-185. | 1997

Telleria CM, Sugino N, Srivastava RK, Park-Sarge OK, Gibori G. Estrogen receptor b-mRNA expression in the pregnant rat corpora lutea and in the temperature sensitive SV-40 transformed luteal cell-line: Regulation by prolactin. 30th Annual Meeting of Society for the Study of Reproduction, Portland, OR. Abstract # 163. | 1997

Srivastava RK, Telleria CM, Gu Y, Gibori G. Antireproductive effect of recombinant 20 α -hydroxysteroid dehydrogenase during pregnancy. 10th International Congress of Endocrinology, San Francisco, CA Abstract # P3-343. | 1996

Ayloo S, Srivastava RK, Gu Y, Zilberstein M, Gibori G. Development expression and regulation of bFGF and VEGF in the rat decidua and in SV-40 transformed decidual cells. 77th Annual Meeting of the Endocrine Society, Washington DC, Abstract # 642. | 1995

Gu Y, Srivastava RK, Ou J, Linzer DIH, Gibori G. Prolactin receptor expression in the rat decidua locally regulated by decidua-derived factors. 28th Annual Meeting of Society for the Study of Reproduction, Davis, CA. Abstract # 578. | 1995

Phillip GH, Srivastava RK, Lee M, Haynes L, Sridaran R. LHRH antagonist suppresses luteal progesterone production by inhibiting 3 β -HSD in vivo during early pregnancy. 77th Annual Meeting of the Endocrine Society, Washington DC, Abstract # 618. | 1995

Sridaran R, Lee M, Srivastava RK, Haynes L, Azhar S. Relationship between luteal content of cholesterol and serum LH levels in pregnant rats treated with LHRH agonist in vivo. 28th Annual Meeting for the Society for the Study of Reproduction, Davis, CA. Abstract # 214. | 1995

Gu Y, Mayo KE, Srivastava RK, Gibori G. Activin is expressed together with its two binding proteins-follistatin and α 2-macroglobulin in the rat decidual tissue. 27th Annual Meeting of Society for the Study of Reproduction, Ann Arbor, Michigan. Abstract # 14. | 1994

Sridaran R, Lee M, Haynes L, Srivastava RK. Suppression of luteal steroidogenesis during early pregnancy by in vivo administration of a LHRH antagonist (Nal-Lys antagonist; antide) is not mediated via the luteinizing hormone. 10th Ovarian Workshop (Serono Symposia), Ann Arbor, Michigan. Abstract # 65. | 1994

Srivastava RK, Akinbami MA, Mann DR. Does previous stress alter the pituitary hormone response to N-Methyl-D,L-Aspartic acid? 27th Annual Meeting of Society for the Study of Reproduction, Ann Arbor, Michigan. Abstract # 223. | 1994

Zilberstein M, Gu Y, Srivastava RK, Mayo KE, Park-Sarge OK, Chou JY, Gibori G. Establishment of a temperature sensitive rat decidual cell-line. 27th Annual Meeting of Society for the Study of Reproduction, Ann Arbor, Michigan. Abstract # 160. | 1994

Srivastava RK, Mann DR. Effect of immobilization stress on 3 β -hydroxysteroid dehydrogenase activity in the adult rat testis. 75th Annual Meeting of Endocrine Society, Las-Vegas, NV. Abstract # 1828. | 1993

Srivastava RK, Van Luu-The, Marrone BL, Sridaran R. Inhibition of steroidogenesis in vitro in the luteal cells of pregnant rats by a LHRH antagonist (Nal-Lys antagonist; antide). 25th Annual Meeting of Society for the Study of Reproduction, Raleigh, NC. Abstract # 406 | 1992

Srivastava RK, Sridaran R. Suppression of steroidogenesis in vitro in the luteal cells of early pregnancy in the rat by a GnRH agonist. 24th Annual Meeting of Society for the Study of Reproduction, Vancouver, BC, Canada. Abstract # 232. | 1991

Srivastava RK, Sridaran R. Effect of a LHRH analog (Nal-Lys; antide) on the daily serum progesterone levels and on its pulsatility during early pregnancy in the rat. 72nd Annual Meeting of Endocrine Society, Atlanta, GA . | 1990