

Publications – Malini Laloraya

➤ POPULAR ARTICLES:

- i. News paper article : Deccan Chronicle – Discourse - CREATING PERFECT BABIES - Futuristic Babies: The ethics: can we deny ourselves benefits of DNA technology?

➤ BOOK CHAPTERS

- i. Kumar PG and **Laloraya M** (1997) Contraception *In: Oxidative stress in male infertility* (Ochsendorf FR and Fuchs J, eds.), Gardez! Verlag, St. Augustin, Germany, pp. 185-196.
- ii. **Brahmaraju M, Laloraya M and Kumar PG** (2009) Immunodominant sperm antigens and their role in male infertility. In: Current Paradigm of Reproductive Immunology, 2009: 59-81.
- iii. Renjini A.P. and **Laloraya M** (2018) Reprogramming of the uterus is de rigueur for successful embryo implantation. In: Molecular Medicine – Bench to Bedside & Beyond - “The continuing journey of Professor G.P. Talwar - Festschrift at Ninety” pg. 357-366

➤ REVIEWS

- i. **Purohit SB, Laloraya M, Kumar GP.** (1999) Role of ions and ion channels in capacitation and acrosome reaction of spermatozoa. Asian J. Androl. 1: 95-107. (IF 3.259)
- ii. **Kumar PG, Laloraya M, She JX.** (2002) Population genetics and functions of the autoimmune regulator (AIRE) In: Endocrinology and Metabolism Clinics of North America. Eisenbarth GD, ed. Harcourt, PA, USA, 2002 Jun;31(2):321-38, vi. (IF 3.0)
- iii. **Meera Krishna B. and Malini Laloraya*** Insulin paradox and Polycystic Ovarian Syndrome: implications on mechanism and pathogenesis. Health Sciences (*The Official Journal of Kerala University of Health Sciences*) 2013;2(1):JS004D
- iv. Padmanabhan RA, **Laloraya M.** Estrogen-Initiated Protein Interactomes During Embryo Implantation. Am J Reprod Immunol. 2016 Mar;75(3):256-62. doi: 10.1111/aji.12455. Epub 2015 Dec 14. (IF- 3.886)
- v. **Laloraya M** and Padmanabhan AR (2016) Forbearance of the Immune System during Pregnancy: Fetal Parasite Takes an Estrogenic Way! Reproductive Immunol Open Acc 1:21.
- vi. **Betcy Susan Johnson^{ab}** and **Malini Laloraya^a** A cytokine super cyclone in COVID-19 patients with risk factors: the therapeutic potential of BCG immunization *Cytokine & Growth Factor Reviews* Volume 54, August 2020, Pages 32-42 DOI: [10.1016/j.cytoqfr.2020.06.014](https://doi.org/10.1016/j.cytoqfr.2020.06.014) (IF- 5.982)

- vii. Padmanabhan RA, Laloraya M. Renin-angiotensin system: A possible clue for gender bias in coronavirus disease 2019 infection. *J Reprod Healthc Med* Feb 2021;2(Suppl_1):S7-S11. doi:10.25259/JRHM_28_2020.
- viii. Johnson BS, Laloraya M. Polycystic ovary syndrome and immune deregulation: what do hormones want to say? *Explor Immunol.* 2022;2:393–413.June 2022. <https://doi.org/10.37349/ei.2022.00058>

➤ **Original Articles:**

1. **Laloraya M, Pradeep KG, Laloraya MM.** (1988) Changes in the levels of superoxide radical and superoxide dismutase during the estrous cycle of *Rattus norvegicus* and induction of superoxide dismutase by activity by lutropin. *Biochem. Biophys. Res. Commun.* 157(1), 146-153. (IF- 2.559)
2. **Laloraya M, Kumar GP, Laloraya MM.** (1989) Histochemical study of superoxide in the ovary of the rat during the oestrous cycle. *J. Reprod. Fertil.* 86(2), 583-587. (IF- 3.086 – Now Reproduction)
3. **Kumar P, Laloraya M, Laloraya MM.** (1989) The effect of some of the polyphenolic compounds on sperm motility in vitro: a structure-activity relationship. *- Contraception.*, 39, 531-539. (IF- 2.894)
4. **Laloraya M, Kumar GP, Laloraya MM.** (1989) A possible role of superoxide anion radical in the process of blastocyst implantation in *Mus musculus*. *Biochem. Biophys. Res. Commun.* 161(2), 762-770. (IF- 2.559)
5. **Kumar GP, Laloraya M, Laloraya MM.** (1989) Coupling of a proton pump with superoxide radical-superoxide dismutase systems in mammalian spermatozoa and its association with sperm motility. *Biochem. Biophys. Res. Commun.* 161(2), 771-775. (IF- 2.559)
6. **Kumar GP, Laloraya M, Agrawal P, Laloraya MM.** (1990) The involvement of surface sugars of mammalian spermatozoa in epididymal maturation and in vitro sperm-zona recognition. *Andrologia.* 22(2), 179-183. (IF- 1.588)
7. **Laloraya M.** (1990) Fluidity of Phospholipid bilayer of the endometrium at the time of implantation of the blastocyst-a spin-label study. *Biochem. Biophys. Res. Commun.* 167(2), 561-567. (IF- 2.559)
8. **Kumar GP, Laloraya M, Laloraya MM.** (1990) Powerful anti-sperm motility action of cobaltous ion and its recovery by a sulphydryl compound. *Contraception* 41, 633-639. (IF- 2.894)
9. **Laloraya M.** Pradeep Kumar G, Nivsarkar M and Laloraya MM (1990) Localization of superoxide dismutase in the ovary and uterus of mice during pregnancy with special reference to steroidogenesis and implantation. *Acta histochemica et cytochemica.* 23(3), 271-279. (IF- 0.872)
10. **Verma S, Kumar PG, Laloraya M*, Singh A, Nivsarkar M, Bharti S.** (1990) Discovery of a novel and alternate hydrogen peroxide generation machinery in the mammalian thyroid gland that modulates iodination of tyrosine. *Biochem. Biophys. Res. Commun.* 169(1), 1-7. (IF- 2.559)

11. Verma S, Kumar GP, Laloraya M*, Singh A. (1990) Activation of iodine into a free radical intermediate by superoxide: A physiologically significant step in the iodination of tyrosine. Biochem. Biophys. Res. Commun. 170(3), 1026-1034. (IF- 2.559)
12. Kumar GP, Tillo N, Laloraya M, Nivsarkar M, Verma S, Singh A. (1990) Superoxide anion radical induces lipid phase transitions that mimics temperature induced phase transition phenomena of membrane lipids. Biochem. Biophys. Res. Commun. 172(2), 601-607. (IF- 2.559)
13. Pradeep KG, Seerwani N, Laloraya M, Nivsarkar M, Verma S, Singh A. (1990) Superoxide dismutase as a regulatory switch in mammalian testicular steroidogenesis. Biochem. Biophys. Res. Commun. 173(I), 302-308. (IF- 2.559)
14. Sinha S, Pradeep KG, Laloraya M, Warikoo D. (1991) Overexpression of superoxide dismutase and lack of surface thiols in spermatozoa : Inherent defects in oligospermia. Biochem. Biophys. Res. Commun. 174(2), 510-519. (IF- 2.559)
15. Nivsarkar M, Kumar GP, Laloraya M, Laloraya MM. (1991) Superoxide dismutase in the anal gills of the larvae of mosquito *Aedes aegyptii*: its inhibition by alpha-terthienyl. Arch. Insect Biochem. Physiol. 16(4), 249-255. (IF- 1.316)
16. Kumar PG, Laloraya M, Laloraya MM. (1991) Superoxide radical level and superoxide dismutase activity changes in maturing mammalian spermatozoa. Andrologia 23(2),171-175. (IF- 1.588)
17. Laloraya M, Kumar GP, Laloraya MM.. (1991) Changes in the superoxide anion radical and superoxide dismutase levels in the uterus of *Rattus norvegicus* during the estrous cycle and a possible role for superoxide radical in uterine oedema and cell proliferation at proestrus. Biochem. Cell Biol. 69 (4), 313-316. (IF- 2.250)
18. Verma S, Kumar P, Laloraya M*, Nivsarkar M, Singh A. (1991) Superoxide dismutase activation in thyroid and suppression in adrenal : Novel pituitary regulatory routes. FEBS Letters 282(2), 310-312. (IF- 2.999)
19. Singh A, Kumar P, Laloraya M, Verma S, Nivsarkar M. (1991) Superoxide activity regulation by spermine : A new dimension in spermine biochemistry and sperm development. Biochem. Biophys. Res. Commun. 177(I), 420-426. (IF- 2.559)
20. Nivsarkar M, Pradeep Kumar G, Laloraya M and Laloraya MM (1991) Superoxide dismutase inactivation by alpha-terthienyl : A novel observation in thiophene photochemistry. Pesticide Biochem. Physiol. 41(I), 53-59. (IF- 3.440)
21. Pradeep Kumar G, Sinha S, Laloraya M, Nivsarkar M. (1991) Enhanced axial symmetry at the Fe(III)-heme centre of peroxidase by ascorbate : A basis for the ascorbate dependent peroxidase action. Biochem. Biophys. Res. Commun. 180(2), 597-601. (IF- 2.559)
22. Nivsarkar M, Kumar GP, Laloraya M, Laloraya MM. (1992) Generation of superoxide anion radical by alpha-terthienyl in the anal gills of mosquito larvae *Aedes aegyptii* : A new aspect in alpha terthienyl phototoxicity. Arch. Insect Biochem. Physiol. 19(4) 261-270. (IF- 1.316)
23. Purohit S, Kumar P, Laloraya M, Bharti S, Laloraya MM. (1992) ABA-induced lipid melting and its reversal by umbelliferone in the plasmalemma of the guard cell protoplast

: A breakthrough in plant hormone-receptor binding and hormone action. *Biochem. Biophys. Res. Common.* 182(2), 652-658. (IF- 2.559)

24. Nivsarkar M, Pradeep Kumar G, Laloraya M and Laloraya MM (1993) Effect of ultraviolet activated alpha terthienyl upon anal gill membranes of mosquito larvae : A spin label study. *Biochem. Syst. Ecol.* 21(4), 441-447. (IF- 0.847)

25. Jain S, Thomas M, Kumar GP, Laloraya M. (1993) Programmed lipid peroxidation of biomembranes generating kinked phospholipids permitting local molecular mobility : A peroxidative theory of fluidity management. *Biochem. Biophys. Res. Commun.* 195(2).574-580. (IF- 2.559)

26. Sinha S, Kumar P, Laloraya M. (1993) Methyl xanthines and altered biomembrane dynamics : Demonstration of protein mobility and enzyme inhibition by caffeine in sperm model system. *Biochem. Mol. Biol. Intl.* 31(6), 1141-1148. (IF- 0.92)

27. Chatterjee S, Laloraya M, Kumar GP. (1993) Exorbitantly enhanced protein gyration and erroneous membrane modification programs after vasectomy: A biophysical basis for low infertility revival after vasectomy. *Biochem Biophys Res Commun.* 1993 Dec 15;197(2):450-456. (IF- 2.559)

28. Sinha S, Kumar GP, Laloraya M. (1994) The topography of thiol-distribution on sperm surface : A sensitive marker for human fertility diagnosis. *Clinica Chimica Acta* 225, 83-84. (IF- 2.926)

29. Sinha S, Kumar GP, Laloraya M. (1994) Abnormal physical architecture of the lipophilic domains of human sperm membrane in oligospermia: a logical cause for low fertility profiles. *Biochem Biophys Res Commun.* 1994 Jan 14;198(1):266-73. (IF- 2.559)

30. Thomas M, Jain S, Kumar GP, Laloraya M. (1994) Transient thiol expression and thiol-disulphide cluster-receptor communications-a molecular basis for blastocyst-uterine interactions. *Biochem. Biophys. Res. Commun.* 198(I),150-157. (IF- 2.559)

31. Nivsarkar M, Kumar GP, Laloraya M. (1994) Photophysical alterations of erythrocyte membrane by 4,5',8-trimethyl psoralen : Membrane response towards psoralen phototherapy. *Biochem. Biophys. Res.. Commun.* 199(3), 1413 -1421. (IF- 2.559)

32. Chatterjee S, Laloraya M, Kumar GP. (1994) Free Radical Bombing of Spermatozoa in Spermatic Granuloma: An Attempt to Prevent Autoimmune Switch-On. *Biochem. Biophys. Res.. Commun.* 201(I), 472-477. (IF- 2.559)

33. Laloraya MM, Pradeep KG, Laloraya M. (1994) Photochemical reaction sequences of blue light activated flavins: sensory transduction through free radical messengers. *Biochem. Mol. Biol. Intl.* 33(3), 543-551. (IF- 0.92)

34. Jain S, Thomas M, Kumar P, Laloraya M. (1994) Appearance of homogeneous smectic multilamellar microenvironments in biomembranes undergoing superoxide initiated lipid peroxidation: lipid dienyl radical accumulation and fluidity management in lipid bilayers. *Biochem.. Mol. Biol. Intl.* 33(5), 853-862. (IF- 0.92)

35. Purohit S, Kumar GP, Laloraya M, Laloraya MM. (1994) Involvement of superoxide radical in signal transduction regulating stomatal movements. *Biochem. Biophys. Res. Commun.* 205(I), 30-37. (IF- 2.559)

- 36.** Thomas M, Jain S, Kumar G.P. and Laloraya M. (1995) Variation in reactive sulphhydryl distribution in mouse uterus in early pregnancy. *Acta Histochem. Cytochem.* 28(3), 227-230. (IF- 0.872)
- 37.** Laloraya M., Jain S, Thomas M, Kopergaonkar S, Pradeep Kumar G. (1996) Estrogen surge: A regulatory switch for superoxide radical generation at implantation. *Biochem. Mol. Biol. Intl.* Aug 1996: 39(5), 933-940. (IF- 0.92)
- 38.** Nivsarkar M, Kumar GP, Laloraya M. (1996) Metal binding and resultant loss of phototoxicity of alpha-terthienyl: metal detoxification versus alpha-terthienyl inactivation. *Bull. Environ. Contain. Toxicol.* 56, 183-189. (IF- 1.480)
- 39.** Kumar G P, Laloraya M, Koide SS. (1996) Characterization of a uterine luminal fluid protein ULF-250 using N-terminal microsequencing and RT-PCR identifies a novel estrogen-regulated gene in the rat uterus. *FEBS Letters.* 399, 33 -36. (IF- 2.999)
- 40.** Chatterjee S, Laloraya M, Kumar PG. (1997) Free radical induced liquefaction of ejaculated human semen: A new dimension in semen biochemistry. *Arch. Androl.* 38 (2), 107-111. (Now called *Systems Biology in Reproductive Medicine*) (IF- 1.582)
- 41.** Negishi H, Kumar GP, Laloraya M and Koide SS (1997) Neutralization of pregnancy preventing activity of cabergoline, a dopamine agonist, with progesterone. *Theriogenology* 48, 241-246. (IF- 2.136)
- 42.** Laloraya M, Thomas M, Jain S, Jafri F, Kumar P. (1997) Activity profile of placental superoxide-superoxide dismutase system in pregnant mice and its possible relation with placental steroidogenesis. *Biochem. Mol..Biol. Intl.* 42(5) 983-990. (IF- 0.92)
- 43.** Thomas M, Jain S, Kumar GP, Laloraya M. (1997) A programmed oxyradical burst causes hatching of mouse blastocysts. *J. Cell Science* 110, 1597-1602. (IF- 4.401)
- 44.** Chatterjee S, Purohit SB, Laloraya M, Kumar P. (1997) Vasectomy induced SOD inactivation in the male reproductive tract of rat : A prerequisite for spermatic granuloma formation. *Urologia Internationalis.* 59(1), 23-25. (IF- 1.508)
- 45.** Chatterjee S, Laloraya M, Kumar PG. (1997) Superoxide anion radical mediated dissection of rat sperm: An in vitro study. *Arch. Androl.* 39 (2), 101-104. (Now called *Systems Biology in Reproductive Medicine*) (IF- 1.582)
- 46.** Chatterjee S, Reddy AL, Laloraya M, Kumar PG. (1997) Free radical mediated sperm load management in the vagina of rat. *Arch Androl.* 1997 Sep-Oct;39(2):127-33. (Now called *Systems Biology in Reproductive Medicine*) (IF- 1.582)
- 47.** Prakash PP, Kumar GP, Laloraya M, Javeri T and Parihar MS (1997) Superoxide Anion Radical production as a cadmium-mediated mechanism of toxicity in avian thyroid: an electron spin resonance study by spin trapping. *Comp. Biochem. Physiol.* September 1997: 118 (1), 89-95. (IF- 2.426)
- 48.** Singh PP, Kumar P, Laloraya M. (1997) Regulation of superoxide anion radical-superoxide dismutase system in the avial thyroid by TSH with reference to thyroid hormonogenesis. *Biochem. Biophys. Res. Commun.* 239 (1), 212-216. (IF- 2.559)

49. Prem P, Parihar MS, Malini L, Pradeep KG. (1998) Starvation-induced hypothyroidism involves perturbations in thyroid superoxide-SOD system in pigeons. Biochem. Mol. Biol. Int. 1998 Jun; 45(1), 73-83. (IF- 0.92)
50. Purohit SB, Laloraya M, Kumar GP. (1998) Acrosome reaction inducers impose alterations in repulsive strain and hydration barrier in human sperm membranes. Biochem. Mol. Biol. Intl. 45(2), 227-235. (IF- 0.92)
51. Purohit SB, Laloraya M, Kumar PG. (1998) Bicarbonate-dependent lipid ordering and protein aggregation are part of non-genomic action of progesterone on capacitated spermatozoa. J. Androl. 19(5),608-618. (Now called Andrology) (IF- 2.734)
52. Khanna-Chopra R, Dalal M, Kumar GP, Laloraya M. (1998) A genetic system involving superoxide causes F-1 necrosis in wheat (*T. aestivum L.*) Biochem. Biophys. Res. Commun. 248(3), 712-715. (IF- 2.559)
53. Prakash P, Kumar GP, Laloraya M, Hemnani T, Parihar MS (1998) Superoxide anion radical generation as a temperature stress response in the gills of fresh water catfish *Heteropneustes fossilis*: role in mucus exudation under elevated temperature. Comp. Biochem. Physiol. C. Pharmacol. Toxicol. Endocrinol. 119(2), 211-216. (IF- 2.426)
54. Prakash P, Laloraya M, Kumar P. (1998) Influence of a melatonin implant on the free radical load in avian thyroid and its relation with thyroid hormonogenesis. Biochem. Mol. Biol. Intl. 46(6), 1249-1258. (IF- 0.92)
55. Laloraya MM, Chandra-kuntal K, Kumar GP, Laloraya M. (1999) Active oxygen species in blue light mediated signal transduction in coleoptile tips. Biochem. Biophys. Res. Commun. 256(2), 293-298. (IF- 2.559)
56. Agnihotri S, Purohit SB, Laloraya M, Kumar GP. (1999) Regional Heterogeneity in Intracellular Distribution of Superoxide and Hydrogen Peroxide within the sperm and its relation to Sperm Development. Archives of Andrology, 43, 113-121. (Now called *Systems Biology in Reproductive Medicine*) (IF- 1.582)
57. Jain S, Saxena D, Kumar PG, Koide SS, Laloraya M. (1999). Effect of estradiol and selected antiestrogens on pro- and anti-oxidant pathway in mammalian uterus. Contraception 60, 111-118. (IF- 2.894)
58. Jain S, Saxena D, Kumar GP, Laloraya M. (2000) NADPH dependent superoxide generation in the ovary and uterus of mice during estrus cycle and early pregnancy. Life Sci. 66, 1139-1146. (IF- 3.234)
59. Purohit SB, Saxena D, Laloraya M, Kumar G P. (2000) Altered molecular dynamics and antioxidant status in the spermatozoa in a testosterone induced oligozoospermia model. Mol Reprod. Dev. 55(3), 316-325. (IF- 3.113)
60. Saxena D, Purohit SB, Kumer GP, Laloraya M. (2000) Increased appearance of inducible nitric oxide synthase in the uterus and embryo at implantation. Nitric Oxide : Biology and Chemistry 4(4), 384-391. (IF- 4.367)
61. Chatterjee S, Laloraya M, Kumar GP. (2001) Regional Variations in Thiol Distribution Pattern and Superoxide Dismutase Activity of the Male Reproductive Tract of the Rat Modulate the Transport of Spermatozoa through the Epididymis and Vas deferens. Urol Int. 2001;66(2):100-4. (IF- 1.508)

62. [Kumar PG, Laloraya M, Wang CY, Ruan QG, Davoodi-Semiromi A, Kao KJ, She JX](#). (2001) The Autoimmune Regulator (AIRE) Is a DNA-binding Protein. *J. Biol. Chem.*, Vol. 276, Issue 44, 41357-41364. (IF- 4.010)
63. [Chatterjee S, Rahman MM, Laloraya M, Kumar GP](#). (2001) Sperm disposal system in spermatic granuloma: a link with superoxide radicals. *Int J Androl.* 2001 Oct;24(5):278-83. (Now called Andrology) (IF- 2.734)
64. [Davoodi-Semiromi A*, Laloraya M*, Kumar GP, Purohit S, Jha RK, She JX](#). *Equal contribution (2004) A mutant *Stat5b* with weaker DNA binding affinity defines a key defective pathway in non-obese diabetic (NOD) mice. *J Biol Chem.* 2004 Mar 19;279(12):11553-61. (IF- 4.010)
65. [Shoeb M, Laloraya M, Kumar PG](#). (2004) Formation and Dynamic Alterations of Horizontal Microdomains in sperm Membranes During Progesterone-Induced Acrosome Reaction. *Biochem Biophys Res Commun.* 2004 Mar 12;315(3):763-770. (IF- 2.559)
66. [Purohit S, Brahmaraju M, Palta A, Shukla S, Laloraya M, Kumar PG](#). Impaired E-cadherin expression in human spermatozoa in a male factor infertility subset signifies E-cadherin-mediated adhesion mechanisms operative in sperm-oolemma interactions. *Biochem Biophys Res Commun.* 2004 Apr 9;316(3):903-9. (IF- 2.559)
67. [Nautiyal J, Kumar PG, Laloraya M](#). (2004) 17 β -estradiol induces nuclear translocation of Crk-L at the window of embryo implantation. *Biochem Biophys Res Commun.* 2004 May 21;318(1):103-12. (IF- 2.559)
68. [Brahmaraju M, Shoeb M, Laloraya M, Kumar PG](#). (2004) Spatio-temporal organization of Vam6P and SNAP on mouse spermatozoa and their involvement in sperm-zona pellucida interactions. *Biochem Biophys Res Commun.* 2004 May 21;318(1):148-55. (IF- 2.559)
69. [Nautiyal J, Kumar PG, Laloraya M](#). Mifepristone (ru486) antagonizes monocyte chemotactic protein-3 down-regulation at early mouse pregnancy revealing immunomodulatory events in ru486 induced abortion. *Am J Reprod Immunol.* 2004 Jul;52(1):8-18. (IF- 2.745)
70. [Chandrakuntal K, Kumar PG, Laloraya M, Laloraya MM](#). (2004) Direct involvement of hydrogen peroxide in curvature of wheat coleoptile in blue-light treated and dark-grown coleoptiles. *Biochem Biophys Res Commun.* 2004 Jul 9;319(4):1190-6. (IF- 2.559)
71. [Purohit S, Kumar PG, Laloraya M, She JX](#). (2005) Mapping DNA-binding domains of the auto-immune regulator (AIRE) protein. *Biochem Biophys Res Commun.* 2005 Feb 18;327(3):939-44. (IF- 2.559)
72. [Shukla S, Jha RK, Laloraya M, Kumar PG](#). (2005) Identification of non-mitochondrial NADPH oxidase and the spatio-temporal organization of its components in mouse spermatozoa. *Biochem Biophys Res Commun.* 2005 Jun 3;331(2):476-83. (IF- 2.559)
73. [Laloraya M, Davoodi-Semiromi A, Kumar GP, McDuffie M, She JX](#). (2006) Impaired Crkl expression contributes to the defective DNA binding of Stat5b in nonobese diabetic mice. *Diabetes.* 2006 Mar;55(3):734-41. (IF- 7.273)
74. [Chandrakuntal K, Thomas NM, Kumar PG, Laloraya M, Laloraya MM](#). (2006) Fluorescence Resonance Energy Transfer Between Polyphenolic Compounds and

Riboflavin Indicates a Possible Accessory Photoreceptor Function for Some Polyphenolic Compounds. Photochem Photobiol. 2006 Sep-Oct;82(5):1358-64. (IF- 2.214)

75. [Jha RK](#), [Titus S](#), [Saxena D](#), [Kumar PG](#), [Laloraya M](#). (2006) Profiling of E-cadherin, β -catenin and Ca^{2+} in embryo uterine interactions at implantation. FEBS Lett. 2006 Oct 16;580(24):5653-60. (IF- 2.999)
76. [Selot R](#), [Kumar V](#), [Shukla S](#), [Chandrakuntal K](#), [Brahmaraju M](#), [Dandin SB](#), [Laloraya M](#), [Kumar PG](#). (2007) Identification of a soluble NADPH oxidoreductase (BmNOX) with antiviral activities in the gut juice of *Bombyx mori*. Biosci. Biotechnol. Biochem. 2007 Jan;71(1):200-5. (IF- 1.255)
77. [Chandran U](#), [Laloraya M](#) and [Kumar PG](#) (2007) Identification of testis-expressed cell cycle regulating proteins with special reference to meiosis. J. Endocrinol. Reprod. 11(1), 45-48.
78. [Mohan JJ](#), [Jha RK](#), [Kumar PG](#), [Dharmarajan AM](#) and [Laloraya M](#) (2007) Secreted Frizzle-Related Protein (sFRP4) can abrogate pregnancy – a new dimension in its biological role. J. Endocrinol. Reprod. 11(1), 41-44.
79. [S. Purohit](#), [M. Laloraya & P. G. Kumar](#) (2007) Distribution of N- and O-linked oligosaccharides on surface of spermatozoa from normal and infertile subjects. Andrologia. 2008 Feb;40(1):7-12. (IF- 1.588)
80. [Shoeb M](#), [Laloraya M](#) and [Kumar PG](#) (2010) Progesterone-induced reorganization of NOX-2 components in membrane rafts is critical for sperm functioning in *Capra hircus*. Andrologia 2010 Dec; 42(6), 356-65. (IF- 1.588)
81. [Chandrakuntal K](#), [Shah AK](#), [Thomas NM](#), [Karthika V](#), [Laloraya M](#), [Kumar PG](#) and [Laloraya MM](#) (2010) Blue light exposure targets NADPH oxidase to plasma membrane and nucleus in wheat coleoptiles. J Plant Growth Reg 29, 232-241. (IF- 2.047)
82. [Padmanabhan RA](#), [Nirmala L](#), [Murali M](#), [Laloraya M](#). CrkL is a Co-Activator of Estrogen Receptor $\{\alpha\}$ That Enhances Tumorigenic Potential in Cancer. Mol Endocrinol. 2011 Jun 23. 25(9):1499–1512. doi: 10.1210/me.2011-0008. {4.544}
83. [Brahmaraju M](#), [Bhagya KP](#), [Titus S](#), [Sebastian A](#), [Devi AN](#), [Laloraya M](#), [Kumar PG](#) (2011) AIRE1A might be involved in cyclin B2 degradation in testicular lysates. Biochem Cell Biol. 2011 Aug;89(4):411-22. doi: 10.1139/O11-029. (IF- 2.250)
84. [Chandrasekhar A](#), [Laloraya M](#), [Kumar PG](#). Modulation of nicotinamide adenine dinucleotide phosphate oxidase activity through sequential posttranslational modifications of p22 phagocytic oxidase during capacitation and acrosome reaction in goat spermatozoa. J Anim Sci. 2011 Oct;89(10):2995-3007. Epub 2011 May 6. (IF- 1.714)
85. [Maurya VK](#), [Jha RK](#), [Kumar V](#), [Joshi A](#), [Chadchan S](#), [Mohan JJ](#), [Laloraya M](#). Transforming growth factor-beta 1 (TGF-B1) liberation from its latent complex during embryo implantation and its regulation by estradiol in mouse. Biol Reprod. 2013 Oct 10;89(4):84, 1-17. doi: 10.1095/biolreprod.112.106542. (IF- 3.471)
86. [Renjini AP](#), [Titus S](#), [Narayan P](#), [Murali M](#), [Jha RK](#), [Laloraya M](#). [STAT3 and MCL-1 associate to cause a mesenchymal epithelial transition](#). J Cell Sci. 2014 Apr 15;127(Pt 8):1738-50. doi: 10.1242/jcs.138214. Epub 2014 Jan 30. (IF- 5.431)

87. Krishna MB, Joseph A, Subramaniam AG, Gupta A, Pillai SM, **Laloraya M**. Reduced Tregs in Peripheral Blood of PCOS Patients - a Consequence of Aberrant IL2 Signaling. *J Clin Endocrinol Metab.* 2015 Jan;100(1):282-92. doi: 10.1210/jc.2014-2401. (IF- 5.789)
88. Indu S, Sekhar SC, Sengottaiyan J, Kumar A, Pillai SM, **Laloraya M**, Kumar PG. Aberrant expression of Dynein light chain 1 is associated with human male factor infertility. *Mol Cell Proteomics.* 2015 Dec;14(12):3185-95. doi: 10.1074/mcp.M115.050005. Epub 2015 Oct 2. (IF- 5.232)
89. Soumya V, Padmanabhan RA, Titus S, **Laloraya M**. Murine uterine decidualization is a novel function of autoimmune regulator-beyond immune tolerance. *Am J Reprod Immunol.* 2016 Sep;76(3):224-34. doi: 10.1111/aji.12538. Epub 2016 Jul 19. (IF- 3.886)
90. Krishna MB, Joseph A, Thomas PL, Dsilva B, Pillai SM, **Laloraya M**. Impaired Arginine Metabolism Coupled to a Defective Redox Conduit Contributes to Low Plasma Nitric Oxide in Polycystic Ovary Syndrome. *Cell Physiol Biochem.* 2017 Oct 20;43(5):1880-1892. doi: 10.1159/000484107. Epub 2017 Oct 20. (IF- 5.500)
91. Mohan JJ, Narayan P, Padmanabhan RA, Joseph S, Kumar PG, **Laloraya M**. Silencing of dedicator of cytokinesis (DOCK180) obliterates pregnancy by interfering with decidualization due to blockage of nuclear entry of autoimmune regulator (AIRE). *Am J Reprod Immunol.* 2018 Mar 8. 80(1), 1-14. doi: 10.1111/aji.12844. [Epub ahead of print] (IF- 3.886)
92. Joseph A, Nair LCR, Johnson BS, Thomas PL, Padmanabhan RA, Puthumadathil N, **Laloraya M**. Transcriptional Regulation of Nos2 via STAT5B Binding to Nos2 Gene Promoter Mediates Nitric Oxide Production: Relevance in β-Cell Maintenance. *Cell Physiol Biochem.* 2019;52(1):141-155. doi: 10.33594/000000010. Epub 2019 Feb 18. (IF- 5.500)
93. Suma PR, Padmanabhan RA, Telukutla SR, Ravindran R, Velikkakath AKG, Dekiwadia CD, Paul W, **Laloraya M**, Srinivasula SM, Bhosale SV, Jayasree RS. Vanadium pentoxide nanoparticle mediated perturbations in cellular redox balance and the paradigm of autophagy to apoptosis. *Free Radic Biol Med.* 2020 Dec;161:198-211. doi: 10.1016/j.freeradbiomed.2020.10.008. Epub 2020 Oct 13. PMID: 33065180 (IF- 7.376)
94. Ghosh S, Parikh S, Nissa MU, Acharjee A, Singh A, Patwa D, Makwana P, Athalye A, Barpanda A, **Laloraya M**, Srivastava S, Parikh F. Semen Proteomics of COVID-19 Convalescent Men Reveals Disruption of Key Biological Pathways Relevant to Male Reproductive Function. *ACS Omega.* 2022 Mar 7;7(10):8601-8612. doi: 10.1021/acsomega.1c06551. eCollection 2022 Mar 15. PMID: 35309488 (IF- 3.512)
95. Betsy Susan Johnson , Meera B Krishna , Renjini A Padmanabhan , Sathy M Pillai , K Jayakrishnan , Malini Laloraya Derailed peripheral circadian genes in polycystic ovary syndrome patients alters peripheral conversion of androgens synthesis. *Hum Reprod.* July 30 2022 30;37(8):1835-1855. doi: 10.1093/humrep/deac139. Impact Factor – 6.918
96. Titus, S., Lini, N., Renjini, A. P., Zyju, D. P., & **Laloraya, M***. (2022). ETS-Domain Transcription Factor Elk1 is Critical for Embryo Implantation via Regulatory Control on Superoxide Dismutase 1 (SOD1). *Journal of Endocrinology and Reproduction*, 26(2), 75–83. June 2022. <https://doi.org/10.18311/jer/2022/30420>

97. Padmanabhan RA, Zyju DP, Subramaniam AG, Nautiyal J, **Laloraya M.** Son of sevenless 1 (SOS1), the RasGEF, interacts with ER α and STAT3 during embryo implantation. J Mol Endocrinol. 2022 Dec 7;70(1):e220089. doi: 10.1530/JME-22-0089. Print 2023 Jan 1. PMID: 36103132 Impact Factor – 4.869
98. Renjini Ambika Padmanabhan, Betsy Susan Johnson, Ajay Kumar Dhyani, Sathy M. Pillai, K. Jayakrishnan and **Malini Laloraya.** Autoimmune regulator (AIRE): Takes a hypoxia-inducing factor 1A (HIF1A) route to regulate FOXP3 expression in PCOS. Am J Reprod Immunol. 2023 Feb;89(2):e13637. doi: 10.1111/aji.13637. Epub 2022 Nov 3. PMID: 36305192. Impact Factor – 3.77
99. Krishna MB, Johnson BS, Vasudevan M, Pillai SM, **Laloraya M.** miRNA-mRNA Network in PBMCs of PCOS Women Identifies Overactivated Stress-Activated Kinases. Cell Physiol Biochem. 2023 Apr 30;57(2):137-156. doi:10.33594/000000622. PMID: 37125425
100. Patra, L. P., Jayakrishnan, K. P., & **Laloraya, M.** (2024). Diabetes and Obesity Biomarkers in Association with Hyperandrogenism Reveal Key Networks in the Pathogenesis of Polycystic Ovary Syndrome: Study on a Cohort from the Southern Part of Kerala State. *Journal of Endocrinology and Reproduction*, 28(2), 89–102, June 2024. <https://doi.org/10.18311/jer/2024/44262>
101. Himadri Mandal¹, Saptarshijyoti Gogoi¹, Atheena Menon G², Malini Laloraya³, Bornali Gogoi¹, Satya Sundar Bhattacharya (2025) Crosstalk between gut metabolomics, bioaccumulation, and microbial enrichment in earthworms for effective remediation of toxic metals: Insights from green waste-based vermicomposting systems. J Environ Manage. 2025 Apr 21:383:125430. doi: 10.1016/j.jenvman.2025.125430. Online ahead of print.