

Curriculum Vitae

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Research

- 2009Oct -present** Research Scientist, Masonic Medical Research Laboratory, Utica, NY
- 2009-2009 Sep** Research Associate in Molecular Biology and stem cell research, Masonic Medical Research Laboratory, Utica, NY
- 2008-2009** Postdoctoral Associate in Medicine/Cardiology, Weill Cornell Medical College, New York.
- 2007-2008** Postdoctoral fellow in Embryonic stem cell research, University of Cologne, Germany.
- 2003-2007** Ph.D (Dr.rer.nat) at Institute of Neurophysiology, University of Cologne. Germany.
- 2002-2003** Research Fellow at Medizinische Hochschule Hannover, Hannover. Germany.
- 2002-2004** Junior Research Fellow at National Institute of Virology (NIV), Pune, India.

Academics

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|-----------|-------------------------------------|---|
| 2000-2001 | Pre-Ph.D/M.Phil course work | Jawaharlal Nehru University,
New Delhi, India. |
| 1998-2000 | Master of Science in Biotechnology | University of Calicut, India. |
| 1995-1998 | Bachelor of Science in Biochemistry | Madurai Kamaraj University, India. |

Awards

- Junior Research Fellowship** Award by
Indian Council of Medical Research (ICMR), India 2001
- Junior Research Fellowship-cum-Lectureship** Award by
Council for Scientific and industrial Research (CSIR) and
University Grants Commission (UGC), Government of India 2001

Publications

1. Kaur G, Rappaport CC, **Xavier M**, Saxena R, Choudhary VP, Reuben SK, Mehra K. "Distribution of C282Y and H63D mutations in the HFE gene in healthy Asian Indians and patients with thalassaemia major". Natl Med J India ;16(6):309-10. 2003
[PUBMED ID:14765621](#)
2. **Doss MX**, Koehler CI, Gissel C, Hescheler J, Sachinidis A. "Embryonic stem cells: a promising tool for cell replacement therapy". Journal of Cellular and Molecular Medicine;8(4):465-73, 2004.
[PUBMED ID:15601575](#)

3. Gissel C, Voolstra C, **Doss MX**, Koehler CI, Winkler J, Hescheler J, Sachinidis A. "An optimized embryonic stem cell model for consistent gene expression and developmental studies: a fundamental study". *Thrombosis and Haemostasis*;94(4):719-27, 2005.
[PUBMED ID:16270623](#)
4. **Doss MX**, Potta SP, Hescheler J, Sachinidis A. "Trapping of growth factors by catechins: a possible therapeutical target for prevention of proliferative diseases". *Journal of Nutritional Biochemistry*;16(5):259-66, 2005.
[PUBMED ID:15866224](#)
5. Gissel C, **Doss MX**, Hippler-Altenburg R, Hescheler J, Sachinidis A. "Generation and characterization of cardiomyocytes under serum-free conditions". *Methods in Molecular Biology*;330:191-219, 2006.
[PUBMED ID:16846026](#)
6. Mariappan D, Winkler J, Parthiban V, **Doss MX**, Hescheler J, Sachinidis A. Dietary small molecules and large-scale gene expression studies: an experimental approach for understanding their beneficial effects on the development of malignant and non-malignant proliferative diseases. *Curr Med Chem.* 13(13):1481-9. 2006.
[PUBMED ID:16787199](#)
7. **Doss MX**, Winkler J, Chen S, Hippler-Altenburg R, Sotiriadou I, Halbach M, Pfannkuche K, Liang H, Schulz H, Hummel O, Hübner N, Rottscheidt R, Hescheler J, Sachinidis A "Global transcriptome analysis of murine embryonic stem cells derived cardiomyocytes." *Genome Biol*;8(4):R56, 2007.
[PUBMED ID:17428332](#)
8. **Doss MX**, Chen S, Winkler J, Hippler-Altenburg R, Odenthal M, Wickenhauser C, Balaraman S, Schulz H, Hummel O, Hübner N, Ghosh-Choudhury N, Sotiriadou I, Hescheler J, Sachinidis A. "Transcriptomic and phenotypic analysis of embryonic stem cell derived BMP2⁺ lineage cells: an insight into mesodermal patterning" *Genome Biology*; 8(9):R184, 2007.
[PUBMED ID:17784959](#)
9. **Doss MX**, Sachinidis A, and Hescheler J "Human ES Cell Derived Cardiomyocytes for Cell Replacement Therapy: A Current Update" *Chinese Journal of Physiology* 51(4): 1-4, 2008.
[PUBMED ID:19112880](#)
10. Pfannkuche K, Wunderlich FT, **Doss MX**, Spitkovsky D, Reppel M, Sachinidis A, Hescheler J. "Generation of a double-fluorescent double-selectable Cre/loxP indicator vector for monitoring of intracellular recombination events." *Nat Protoc.*;3(9):1510-26, 2008.
[PUBMED ID:18772879](#)
11. Akasha AA, Sotiriadou I, **Doss MX**, Halbach M, Winkler J, Baunach JJ, Katsen-Globa A, Zimmermann H, Choo Y, Hescheler J, Sachinidis A." Entrapment of embryonic stem cells-derived cardiomyocytes in macroporous biodegradable microspheres: preparation and characterization" *Cell Physiol Biochem.*;22(5-6):665-72, 2008.
[PUBMED ID:19088448](#)
12. Potta SP, Liang H, Pfannkuche K, Winkler J, Chen S, **Doss MX**, Obernier K, Kamisetti K, Schulz H, Hescheler J and Sachinidis A "Functional characterization and global transcriptome analysis of contractile smooth muscles cells derived from a murine transgenic Acta2 embryonic stem cell lineage" *Hypertension*;53(2):196-204, 2009.
[PUBMED ID:19064816](#)
13. Trouillas M, Saucourt C, Guillotin B, Gauthereau X, Ding L, Buchholz F, **Doss MX**, Sachinidis A, Hescheler J, Hummel O, Hubner N, Kolde R, Vilo J, Schulz H and Bœuf H "Three LIF-dependent signatures and "competency genes" identified by gene profiling studies in mouse ES cells and early derivatives" *BMC Genomics*;10:73, 2009.
[PUBMED ID:19203379](#)

14. Ding L, Paszkowski-Rogacz M, Nitzsche A, Slabicki MM, Heninger AK, Vries ID, Kittler R, Junqueira M, Shevchenko A, Schulz H, Hubner N, **Doss MX**, Sachinidis A, Hescheler J, Iacone R, Anastassiadis K, Stewart AF, Pisabarro MT, Caldarelli A, Poser I, Theis M, Buchholz F. "A Genome-Scale RNAi Screen for Oct4 Modulators Defines a Role of the Paf1 Complex for Embryonic Stem Cell Identity" *Cell Stem Cell*.:4(5):403-15, 2009.
[PUBMED ID:19345177](#)
15. Schulz H, Kolde R, Adler P, Aksoy I, Anastassiadis K, Bader M, Billon N, Boeuf H, Bourillot PY, Buchholz F, Dani C, **Doss MX**, Forrester L, Gitton M, Henrique D, Hescheler J, Himmelbauer H, Hübner N, Karantzali E, Kretsovali A, Lubitz S, Pradier L, Rai M, Reimand J, Rolletschek A, Sachinidis A, Savatier P, Stewart F, Storm MP, Trouillas M, Vilo J, Welham MJ, Winkler J, Wobus AM, Hatzopoulos AK; Functional Genomics in Embryonic Stem Cells Consortium. "The FunGenES database: a genomics resource for mouse embryonic stem cell differentiation". *PLoS One*. 2009 Sep 3;4(9):e6804.
[PUBMED ID:19727443](#)
16. Gunaseeli I, **Doss MX**, Hescheler J, Sachinidis A "Induced Pluripotent Stem (iPS) Cells as a Model for Accelerating Drug Discovery". *Current Medicinal Chemistry* (**in press**)
17. **Doss MX**, Wagh V, Schulz H, Kull M, Kolde R, Pfannkuche K, Nolden T, Himmelbauer H, Vilo J, Hescheler J, Sachinidis A: "Global Transcriptomic Analysis of Murine ESC Derived Brachyury⁺ (T) Cells" *Genes to Cells* (**in press**)

Book Chapter:

1. Šaric T, Chen S, Kamiseti N, Halbach M, **Doss MX**, Winkler J, Hescheler J and Sachinidis A "**Embryonic Stem Cells and Their Therapeutic Potential**" 2008 "Handbook of Cardiac Stem Cell Therapy" (edited by Ioannis Dimarakis et al.) (<http://www.worldscibooks.com/lifesci/p582.html>) 2008.