

**Talks delivered (2005-2007) by Dr.M.Balasubramanyam  
Asst. Director & Senior Scientist, MDRF**

**“Stress wars in diabetes” – role of oxidative stress and endoplasmic reticulum (ER) stress** – talk to be delivered at the 95<sup>th</sup> Indian Science Congress, Visakhapatnam, 3-7<sup>th</sup> January 2008.

**“Stem Cell Therapy: applications, obstacles and opportunities”** – talk to be delivered at the State Level Seminar on Emerging Operandum in Stem Cell Biology & Nanotechnology – Chennai, 29<sup>th</sup> December 2007.

**“Molecular divergence of O-linked N-acetylglucosaminyl transferase (OGT) silencing, ER stress and Insulin resistance in L6 skeletal muscle cells”** – Indo-French Conference on: RNAi in Genome Control, Centre for Cellular and Molecular Biology (CCMB), Hyderabad, December 12 -14, 2007.

**“Stem cells, diabetes and regenerative medicine”** – Frontier Conclave 2007 – International Conference on Stem Cell, Tissue Engineering and Regenerative Medicine. Frontier Lifeline, Chennai, November 30<sup>th</sup> – December 2<sup>nd</sup> 2007.

**“Metabolic Memory and Oxidative Stress – New Insights From Interventional and Epidemiological Studies”** talk at the 35<sup>th</sup> Annual Conference of RSSDI, Kolkatta, 23-25<sup>th</sup> November 2007

**“Molecular understanding of Type 2 diabetes – Triumphs and Trials”** talk at the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, 12<sup>th</sup> November 2007.

**“Exploring novel mechanisms of insulin resistance and Type 2 diabetes using miRNA and RNAi technologies”**- presentation at the Department of Biotechnology (DBT), Govt. of India, 26<sup>th</sup> September 2007.

**“Multiple diabetes drug targets – A blessing in disguise for Pharma”** invited talk given at the National Institute of Pharmaceutical Education & Research (NIPER), Chandigarh, 11<sup>th</sup> August 2007.

**“Research needs – Chronic Disease Biology & Diabetes”**. Department of Biotechnology (DBT) meeting on Chronic Disease Biology, Trivandrum 7-9<sup>th</sup> August 2007

**“Insulin resistance and Type 2 diabetes: New insights in to the molecular mechanisms”** Guest Lecture at the Department of Biotechnology, School of Life Sciences, Central University, Hyderabad on 30<sup>th</sup> July 2007.

**“Oxidative stress, Metabolic memory and Diabetic retinopathy”** at the 16<sup>th</sup> Annual Meeting of Indian Eye Research Group (IERG), L.V.Prasad Eye Institute, Hyderabad during 28–29<sup>th</sup> July 2007

**“Molecular pathogenesis of Type 2 diabetes-Cell and Organellar Insights”** at the School of Life Sciences, MDIS, Singapore on 3<sup>rd</sup> July 2007

**Methods in Calcium homeostasis and Redox signaling** at the School of Life Sciences, MDIS, Singapore on 29<sup>th</sup> June 2007

**“Pathogenesis of Type 2 diabetes – Technology struggles and the Gordian Knot”** at the Department of Biological Sciences, National University of Singapore, Singapore on 3<sup>rd</sup> July 2007.

**“Molecular pathogenesis of Type 2 diabetes – Tissues, Issues and Microarray applications”** at the “Workshop on advanced microarray techniques”, Genotypic Technology, Bangalore, 3 - 4<sup>th</sup> May 2007.

**“Type 2 diabetes – Emerging drug targets and exciting challenges”** Talk given at BIOCON, Bangalore on 28<sup>th</sup> March 2007.

**“Stem cells, diabetes and bioengineering enterprise”**, Guest lecture on Tissue Engineering at the Department of Biotechnology, University of Madras, Chennai, 6<sup>th</sup> March, 2007.

**“Molecular pathogenesis of Type 2 diabetes-Cell and Organellar Insights”** at the 30<sup>th</sup> All India Cell Biology Conference (AICBC), Theme: Molecules to Compartments; Corss-talks and Networks. Delhi University, Delhi, 2-4 February, 2007.

**Diabetes – What medicinal plants can offer?** at the National Conference on “Recent Trends in Medicinal Plants Research”, University of Madras, Chennai, 24-25 January, 2007.

**“Phytochemicals and fight against diabetes mellitus”** at the XXIII Annual conference of the Indian Association of Veterinary Pathologists, TamilNadu, Veterinary and Animal Sciences University, Chennai, 27<sup>th</sup> December 2006.

**“Telomere shortening at the cross-road of oxidative stress and atherosclerosis”** at the 19<sup>th</sup> Annual Conference of the Indian Society for Atherosclerosis Research (ISARCON-2006), University of Madras, Chennai, December 16-17<sup>th</sup>, 2006

**“Herbal medicine and diabetes mellitus: Where do we stand now?”** at the National symposium on Current trends in the development of herbal drugs & 27<sup>th</sup> Annual Conference of Indian Association of Biomedical Scientists, Trivandrum 25-27<sup>th</sup> November, 2006.

**“Screening techniques on herbals for insulin secretagogue and insulin sensitizing actions”** at the IABMS (Indian Association of Biomedical Scientists) Workshop on “Basic tools and techniques in herbal drug research”, Trivandrum 25-27<sup>th</sup> November, 2006

**“Changing trends and translational approaches in studying the molecular pathogenesis of Type 2 diabetes”** at the 9<sup>th</sup> A-IMBN (Asia-Pacific International Molecular Biology Network) Conference & 16<sup>th</sup> MSMBB Scientific Meeting, Theme: From Genomics and Proteomics to Translational Initiatives, held in Kuala Lumpur, Malaysia during 3<sup>rd</sup> to 5<sup>th</sup> September 2006.

**“Does oxidation/inflammation impose accelerated cellular senescence in adipocytes and modify their secretory profile and function?”** – Presentation at the Department of Biotechnology (DBT), Govt. of India, 28<sup>th</sup> August 2006.

**“War against diabetes mellitus: Phytochemicals revisited?”** at the AVT Institute of Advanced Research (AVTAR), Coimbatore on 7<sup>th</sup> July 2006

**“Proteomics and post-translational modifications-Type 2 diabetes context”** at the Indo-Swedish Symposium on Genomics and Proteomics of Diabetes held in Chennai during April 1-2, 2006

**“Changing trends in studying the molecular pathogenesis of diabetes”** at the National Seminar on Molecular basis of diseases – current perspectives and new frontiers, held at the University of Madras, Chennai during 13-14 March 2006

**“Time for a translational approach in diabetes research”** at the Seminar on ‘Emerging trends in biomedical sciences and their translational applications’ at the Loyola College, Chennai, 1<sup>st</sup> March 2006.

**“New insights into the pathogenesis of diabetes and the role of phytochemicals”** at the Workshop cum Symposium on “Recent trends in Biochemistry & Biotechnology” at the Annamalai University, Chidambaram, on 26<sup>th</sup> February, 2006.

**“Differential regulation of Ca<sup>2+</sup> & Endoplasmic reticulum (ER) stress markers during induction of insulin resistance by glucosamine in L6 muscle cells”**, at the 10<sup>th</sup> ADNAT convention on: “RNAi & microRNA in development and health”, Center for Cellular & Molecular Biology (CCMB), Hyderabad, during 23-24<sup>th</sup> February, 2006.

**“Insulin signaling, diabetes pathogenesis and proteomics aspects”** at the National Symposium & Workshop on Genomics, proteomics and computational biology – Today and Tomorrow, in Chennai during 15-17 February, 2006.

**“Antioxidants & Metabolic/Vascular diseases – Where do we stand now”** at the Joint Annual Meeting of the International Society of Heart Research & International Academy of Cardiovascular Sciences, held at the Madras Medical Mission, Chennai during 12-14<sup>th</sup> January, 2006

**“Oxidative stress and diabetes – New insights for therapeutic intervention”** at the 38<sup>th</sup> Annual Conference of the Indian Pharmacological Society (IPS), Chennai, 29<sup>th</sup> December 2005.

**“Diabetes & New Horizons in Drug Development”** at the National Conference on “Path to Health – Biotechnology Revolution in India” held at the Anna University, Chennai, 25<sup>th</sup> November 2005.

**“Clinical Proteomics and diabetes: Expectations and Emerging Opportunities”** at the Expert Committee Meeting of the Department of Biotechnology (DBT) held in Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh, 7<sup>th</sup> November 2005.

**“Herbal medicine, diabetes and oxidative stress as a therapeutic target”** at the “International Conference on Drug Development from Medicinal Plants- Issues and Problems” held at CLRI, Chennai on 21<sup>st</sup> October 2005.