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**MAJOR RESEARCH INTERESTS**

**ANIMAL BIOTECHNOLOGY: *Stress Biology (Gene Regulation) and Cancer Genetics***

* We are studying global stress responses and their regulation using various environmental stresses (oxidative stress, heavy metal stress, osmotic stress, heat shock, and DNA damage). Special emphasis is on oxidative stress such as hypoxia, where we are identifying the molecular variables playing key roles in this process as well as analyzing underlying regulatory mechanisms
* Designing of potential antagonist of splicing factors and DNA repair enzymes as therapeutic targets for application in Cancer Therapy, Screening of small molecules (Natural and Synthetic compounds) as potential inhibitors of various cancer progression and their mode of action
* Steroid/nuclear receptors and human disease (infertility, reproductive disorders, metabolic syndrome and cancer regulation.