



## **Novel Universal Technology to Establish the Identity of Enormous Number of Animal Species for Forensic Applications and Authentication of the Edible Meat for Food Fortification**

Establishment of the species origin of the biological samples such as a drop of blood, morsel of partially cooked or uncooked meat, a piece of skin or a single hair objectively and accurately is central to the detection of the wildlife crime in forensics and for the authentication of the edible meat sources for Food Fortification. Centre for Cellular and Molecular Biology, CSIR has developed a novel universal molecular technique which without the prior information about the history of any biological sample is able to reveal whether the source of the biological sample is human or animal, if animal, which of the thousands of the species of animals including any of domestic, wild, threatened and/or endangered animal species of India. This technique can be applied universally with any type of biological sample, small or large, fresh or old, and has been effective in establishing the identity of thousands of species of animals. This technique has received several International patents [7141364 (USA), 2003/7489 (South Africa), ZL01823181.0 (China), 2001258719 (Australia)] and recently been awarded with the **CSIR Technology Award for Life Sciences - 2008**.

CCMB has successfully used this technology to resolve approximately 300 cases, including many sensational cases, pertaining to Wildlife crime referred from various State Governments and crime investigation agencies. Few examples include the detection of the species of the snake from the venom powder, differentiation amongst the fake and real animal skins and identification of the species source of the uncooked/partially cooked meat for import or export purposes. Thus, the technology developed by CCMB is a boon for wildlife crime detection and for authentication of edible meat for food fortification.

CCMB offers to license this technology to interested entrepreneur(s) for commercial purposes. Interested entrepreneur(s) are requested to contact:

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