



Research programme in neurosciences  
**Programa de investigació en neurociències**  
**Programa de recerca en neurociències**



# "The road to a gene doping test: are we there yet?"



**Dra. Anna Baoutina**

National Measurement Institute, Sydney,  
Australia

Anna Baoutina received her PhD from Moscow Lomonosov State University, Russia in biological sciences and spent ten years working in medical research, mainly studying the causes of cardiovascular disease and atherosclerosis. She received a post-doctoral fellowship from the National Heart Foundation of Australia.

Anna joined the National Measurement Institute of Australia in 2005 and since then has been involved in managing the NMI's program on developing methodology for detection of gene doping in sport. On the invitation from the International Olympic Committee, Anna contributed a chapter on gene doping in the volume "Genetic and Molecular Aspects of Sport Performance" of The Encyclopaedia of Sports Medicine.

In her presentation, Anna will talk about potential misuse of gene transfer technology in sport and progress towards a gene doping test. This will include an approach to detect doping genes against a background of natural genes, methods for erythropoietin gene doping detection in blood and a multiplex panel to simultaneously target several genes with potential to enhance physical strength.

Currently NMI is working towards a routine gene doping test which would meet the stringent accreditation requirements of the World Anti-Doping Agency. This includes optimisation of protocols for blood samples collection, processing and storage and generation of appropriate reference materials.

**dimecres**

**23**

d'octubre  
de 2013

**12.00h**

Sala  
**Ramón y Cajal**  
(PRBB, planta  
baixa)

Organitza:

**Grup de recerca en  
bioanàlisi i serveis  
analítics**



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