



The World Anti-Doping Agency (WADA) promotes, coordinates and monitors, at the international level, the fight against doping in all its forms. Through this independent agency, the Olympic Movement and the Public Authorities have intensified their efforts to keep drugs out of sport.

2011 Scientific Research Topics

The World Anti-Doping Agency's (WADA) Health, Medical and Research Committee (HMRC) has identified relevant areas of research in the field of anti-doping, in particular those related to the List of Prohibited Substances and Methods in sport (for the latest version of the Prohibited List, go to www.wada-ama.org).

WADA promotes and funds, on a yearly basis, scientific projects in the anti-doping field covering the development or optimization of analytical tools for the detection and/or quantification of doping substances or methods as well as the pharmacology of such substances and the ergogenic effects of specific substances/methods or group of substances on athletic performance. **In this context, WADA gives priority to projects with direct and imminent applicability in the fight against doping in sport over basic research projects.**

The review process includes the project evaluation by a panel of external independent reviewers as well as the review and selection by WADA's HMRC.

For 2011, submission of research projects covering the following topics is encouraged:

- A. Detection of prohibited substances/methods: classic methodologies in analytical chemistry,** and in particular research addressing:
- The detection of doping substances and methods using liquid or gas chromatography, mass spectrometry, or new methods in analytical chemistry.
- B. Detection of prohibited substances/methods: immunological and biochemical methodologies,** and in particular research addressing:
- The detection of doping substances and methods using immuno-based assays (enzymatic assays, flow cytometry, etc), and biochemical methods (e.g. IEF, SDS-PAGE, etc).
- C. Detection/Identification of novel doping trends,** and in particular research addressing:
- The detection of gene doping and gene manipulation;
 - Methods for non-invasive imaging;
 - Identification and validation of molecular signatures to detect use of prohibited substances and methods;
 - The detection of cell grafting with either autologous or non-autologous cells;
 - Identification and/or detection of novel substances (not on the current Prohibited List) with suspected doping potential (e.g. drugs newly approved or in advanced clinical development; substances with clinical or field evidence of abuse.)
- D. Pharmacological studies on doping substances/methods,** and in particular research addressing:
- Establishment/improvement of threshold values for prohibited substances showing doping effect above a certain dose or depending on route of administration;
 - Pharmacokinetics/pharmacodynamics as well as gender, ethnic, and environmental factors affecting metabolism and excretion of prohibited substances and methods;

WADA invites you to submit your application for projects related to the topics above by **April 22, 2011**. Please use the electronic "Grant Management Platform" accessible from www.wada-ama.org under "Science & Medicine / Research/ Applying for Research Grants", to submit your application. The application shall be submitted in English and shall include the following enclosures. **An English translation of documentation should be appended where necessary:**

- A project description (max. 5 pages) including objectives, methodology, experimental design, timelines, preliminary results and relevant bibliographic references;
- Information about the researchers (curriculum vitae), their home institution, and its resources;
- For research involving human subjects and/or human samples (including existing material): a copy of local ethics committee approval (or application form if approval pending), participant information letter and consent form; and
- For research involving animals, a copy of animal care committee approval.

The full original application form should be printed, signed by all investigators and sent to:

Ms Violet Maziar
Executive Assistant
Science Department/WADA
800, Place Victoria (Suite 1700)
PO Box 120
Montreal (Quebec) H4Z 1B7
CANADA

All submitted projects will be peer-reviewed by external experts, and WADA's Health, Medical and Research Committee will make the final proposal to WADA's Executive Committee. A response on the application can be expected by October 2011. WADA will only fund projects deemed appropriate.

Pr. Arne Ljungqvist
WADA Vice-President
Chairman, WADA Health, Medical and Research Committee

Mr. David Howman
WADA Director General