



2018 Scientific Research Grant Topics

2018 Call for Proposals

Background

Established in 1999, the World Anti-Doping Agency (WADA) is an international, independent agency composed and funded equally by the Sport Movement and Governments of the world. Our key activities include scientific research, education, development of anti-doping capacity, investigations, and monitoring compliance with the World Anti-Doping Code (Code) — the document harmonizing anti-doping policies across all sports and all countries. WADA's mission is to lead a collaborative worldwide movement for doping-free sport.

Science is key to driving advances in anti-doping. Innovative, fact-based research helps the anti-doping community identify new trends in doping, new drugs, new delivery mechanisms and new methods of detection.

WADA's [Health, Medical and Research Committee](#) (HMRC), which is one of the Agency's Standing Committees, monitors scientific developments in sport with the aim of safeguarding doping-free sport practice. With this aim, it oversees the following WADA Expert Groups: Prohibited List, Therapeutic Use Exemptions (TUE), Laboratory accreditation and Gene Doping. The HMRC Committee is also involved in the selection of WADA-funded Scientific Research Grant Projects.

Since 2001, WADA has committed more than US\$73 million to helping researchers around the world develop breakthroughs in anti-doping science. The Agency's scientific research grants are critical because they increase the volume of research dedicated to developing new and improved detection methods for performance-enhancing substances and methods as well as attract the best minds to this cause.

WADA-funded Scientific Research Grant Projects.

On a yearly basis, WADA promotes and funds [Scientific Research Grant Projects](#) regarding development, or optimization, of analytical tools for the detection and/or quantification of doping substances or methods, consolidation of the Athlete Biological Passport (ABP); as well as, the pharmacology of prohibited substances and drug cocktails. **With this objective, WADA gives high priority to projects with direct and imminent applicability** in the fight against doping in sport; and therefore, **rarely funds basic research projects.**

2018 Scientific Research Grant Topics

For 2018, the HMRC Committee has identified relevant areas of research in the field of anti-doping; in particular, those related to the [2018 List of Prohibited Substances and Methods](#). Proposals received, by 15 February 2018 (24:00 GMT), as a result of WADA's 4 December 2017 '[Call for Proposals for 2018 Scientific Research Grants](#)' will be reviewed by external

independent reviewers and an additional panel of experts. The final ranking and recommendation will be carried out by the HMRC.

It should be noted that higher priority will be granted to proposals addressing:

- Detection of peptide hormones and growth factors;
- Improved window or limits of detection for prohibited substances/methods (e.g. detection of new long-term metabolites, improved methodologies of detection, etc.);
- Autologous blood transfusions; and
- The ABP (e.g. new biomarkers and target analytes of the ABP including its endocrine module, improvement of current models, etc.).

For 2018, proposals will be classified as follows:

A. Detection of doping substances/methods: 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 doping substances/methods: affinity-binding and biochemical methodologies; and, in particular research addressing:

- The detection of doping substances and methods using immunoassays, other assays based on affinity-binding reagents or other biochemical methods; and
- Multiplexing of validated affinity binding-based assays and other biochemical approaches.

C. Pharmacological studies of doping substances/methods; and, in particular research addressing:

- Establishment and/or refinement of threshold values for prohibited substances that may be exogenous or produced endogenously, showing doping effect above a certain dose or depending on route of administration;
- Pharmacokinetics/pharmacodynamics/metabolism of prohibited substances and methods including impact of gender, ethnic, and environmental factors affecting excretion, detection or biological action;
- Doping potential and strategies for detection of drugs, drug interactions (cocktail formulations) or drug micro-dosing; and
- Long-term metabolites or markers of doping substances.

D. The Athlete Biological Passport; and, in particular research addressing:

- Discovery and validation of new discriminant markers for the haematological and steroid modules of the ABP;
- Evaluation of confounding factors; and
- Expansion of the ABP approach to other target analytes (e.g. peptide hormones as part of the endocrine module).

E. Detection of doping substances/methods: molecular biology, "Omics" and miscellaneous methodologies; and, in particular research addressing:

- The "in vivo" detection of gene doping and gene manipulation, including methods and effects of gene editing agents;

- Validation of molecular and metabolic signatures 'in vivo' to detect use of prohibited substances and methods; and
- Detection of doping with normal (e.g. stem cells) or genetically modified cells in muscle(s), connective tissues or other tissues and organs relevant in sport.

Call for Proposals for 2018 Scientific Research Grants

On 4 December 2017, [WADA issued its call for proposals for 2018 scientific research grants](#).

Scientists interested in submitting proposals for the above-noted topics are invited to submit their applications by 15 February 2018 (24:00 GMT) using [WADA Grants](#).

We would ask that all applications be submitted in English (along with English translations of related documentation appended as relevant) and include the following enclosures:

1. A project description (max. 5 pages) including objectives, methodology, experimental design, timelines, preliminary results and relevant bibliographic references;
2. Information about the researchers (curriculum vitae), their home institution, and its resources;
3. * For research involving human subjects and/or human samples (including existing material): a copy of local ethics committee approval, participant information letter and consent form; and
4. * For research involving animals, a copy of animal care committee approval.
 - * If these documents are pending at the time of submission, they will be required once the grant is approved for funding.

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

Ms. Violet Maziar
 Executive Assistant
 Science Department
 World Anti-Doping Agency
 800, Place Victoria (Suite 1700)
 PO Box 120
 Montreal (Quebec) H4Z 1B7
 CANADA

Responses to proposals can be expected by mid-October 2018.

WADA thanks all scientists in advance for their valuable submissions, in line with the above topics, aimed at helping advance anti-doping research in protection of clean sport.

Sincerely,

Prof. Ugür Erdener
 Chair
 HMRC

Mr. Olivier Niggli
 Director General