

Canadian Council on Animal Care  
Conseil canadien de protection des animaux

**Good Animal Practice in Science**  
**Bonnes pratiques animales en science**



***Canadian Council on Animal Care***

# ***Annual Report***

## ***2006-2007***

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# INTRODUCTION

The Canadian Council on Animal Care (CCAC) is an autonomous and independent body, created in 1968 to oversee the use of animals in science in Canada. The CCAC is registered as a not-for-profit organization, and is financed primarily by the Canadian Institutes of Health Research (CIHR) and the Natural Sciences and Engineering Research Council (NSERC), with additional contributions from federal science based departments and private institutions participating in its programs. It is governed by a Council of representatives from 25 national organizations.

The CCAC acts as a quasi-regulatory body and sets standards on animal use in science that apply across Canada. It is accountable to the general public and is responsible for the dissemination of information on the use of animals in science to Canadians. The CCAC develops guidelines, policies, comprehensive annual statistics on the number of animals used in science, and produces an annual report to disseminate information to its constituents and the general public. The present report covers activities undertaken by the CCAC from April 1, 2006 to March 31, 2007.

## REVIEW OF THE STRUCTURE AND OPERATIONS OF COUNCIL

The Canadian Federation of Biological Societies (CFBS) requested to be considered for membership on the CCAC Council in December 2006. The CFBS was formed in 1957 and incorporated in 1979, and is currently composed of 12 biological/biomedical societies and associations. Most of the CFBS members are university-based researchers, while a significant number are from research laboratories in government and industry. At the March 3, 2007 meeting of the CCAC Standing

Committee on Planning and Priorities, it was determined that the CFBS will be offered a limited term position on Council when one becomes available.

The Canadian Veterinary Medical Association (CVMA), who completed their first term as a limited term member on March 31, 2007, will remain on Council as a limited term member for a second (and final) term.



# RECOGNITION OF CCAC STANDARDS

## 1. At the National Level

In Canada, the use of animals in science is a provincial responsibility, with the guidelines and policies set by the CCAC serving as national reference standards. The provincial legislations in five of the six provinces that have legislated on the matter make specific references to the CCAC guidelines and policies. The CCAC encourages regulators and funders of research to reference the CCAC standards in their legislation and programs at the federal and provincial levels.

### **Bill S-213: Amendments to the *Criminal Code***

Bill S-213 is a private member's Bill that was tabled in late April 2006 by Senator John Bryden to amend the animal cruelty sections of the *Criminal Code* in order to increase penalties imposed for offences. At its June 13, 2006 meeting, the CCAC Board of Directors decided not to issue comments on Bill S-213, as questions addressing increased penalties were not deemed relevant to the CCAC's mandate.

### **Public Works and Government Services Canada (PWGSC)**

As part of the ongoing update of the *Standard Acquisition Clauses and Conditions (SACC) Manual* by the PWGSC, major amendments were made to the 'Experimental Animals (A9015C)' clause governing "Research and Development". It now requests that "any work performed under the Contract involving the care and use of experimental animals must be carried out in compliance with the Canadian Council on Animal Care (CCAC) programs and only by an institution holding a CCAC Certificate of GAP – Good Animal Practice®". Early September 2006, the PWGSC requested further assistance from the CCAC in developing a clause to cover the awarding of animal-based contracts by federal departments and agencies to foreign contractees.

### **National Farm Animal Care Council (NFACC)**

The Executive Director attended the April 5, 2006 meeting of the NFACC in Mississauga, ON and the

September 11-12, 2006 meeting in Ottawa, ON. The latter was also attended by the Guidelines Program Director. Since December 2005, the CCAC has contributed advice on the guidelines development process to the NFACC, which was acknowledged in their first annual report. Although the CCAC only has observer status on the NFACC, the CCAC is included on an industry animal care initiatives chart published at every meeting, and is expected to provide an update at each NFACC meeting. One of the main objectives of the NFACC is to promote collaboration among representatives of the farm animal industry with respect to farm animal care issues.

### **Canadian Animal Health Coalition (CAHC)**

The Executive Director represented the CCAC at the December 5-7, 2006 Second Annual Animal Health and Emergency Management Conference, organized under the aegis of the CAHC in Ottawa. A key presentation by the newly appointed Director of the National Animal Health and Welfare Strategy, Ms. Johanne Beaulieu, clarified that the strategy is long-term in nature, it is inclusive of all sectors (i.e. beyond farm animals and including laboratory animals, wildlife, zoos, aquaria, etc.), and its final objective is the alignment of principles and approaches towards a Canadian system of prevention for animal, public and ecosystem health.

The deadline for the delivery of the whole strategy is July 2008, which will be achieved through a two-step process, namely, the documentation of the technical capacities of the Canadian animal health system, and the definition of the extent of the following four components of the strategy: integrated governance, active surveillance system, international action in support of risk management within Canada, and coherent investments. There is strong support from four federal departments and two regulatory agencies for the development of this strategy.

### **Health Canada (HCan) and Environment Canada (EC)**

In late 2005, as part of its efforts to develop an accreditation program for the protection of human research subjects, HCan commissioned an Ottawa-

based consultant to develop a governance primer using two case studies, namely the CCAC and the Canadian Council on Health Services Accreditation. The CCAC Executive Director was interviewed by the consultant on March 2, 2006 and provided written comments on the draft report on March 20, 2006. The final document was released to HCan on March 31, 2006 under the title *A Governance Primer for an Accreditor of Human Research Protection Programs in Canada*, with the study case on the CCAC representing nearly half of its content.

On October 23, 2006, the Executive Director was invited to give a follow-up presentation to members of HCan's Experts Committee for Human Research Participant Protection in Canada, entitled "The Canadian Ethical Review and Oversight System for the Care and Use of Animals in Science". Key questions were asked concerning effective mechanisms to ensure independence from governmental funding sources while remaining accountable, ensuring transparency in the delivery of services while protecting confidentiality, and the development and implementation of effective training programs.

Similarly, on September 8, 2006, the Director of the POLIS Project on Ecological Governance (Faculty of Law/School of Environmental Studies, University of Victoria) contacted the CCAC as part of a preliminary scoping exercise undertaken for EC's Biodiversity Convention Office to understand what models exist in Canada for implementing national guidelines for ethical research. Basic information was compiled about human research ethics (i.e. *Tri-Council Statement for Research Involving Humans*) and care and use of experimental animals (i.e. policies of the CCAC).

As a result of the participation of the CCAC Guidelines Program Director in the June 15-16, 2006 EC/HCan consultation workshop on the provisions of the New Substances Notification Regulations (which deal with research and development exemption criteria and notification requirements for organisms other than micro-organisms), the CCAC obtained permission to post key documents used at the workshop on its website (these documents were not available on the EC/HCan website) and alerted its constituents and affiliates to the serious negative impact that the intended changes to the regulations might

have on scientific research in Canada, urging action on their part. In response to letters sent by interested parties and the CCAC, a meeting with representatives of the CCAC, NSERC, CIHR, the National Research Council Canada (NRC) and the Department of Fisheries and Oceans (DFO) was called on November 14, 2006 by Dr. James Louter (New Substances Division, Environment Canada). The CCAC followed up on this offer and invited a representative from the New Substances Division to give a presentation at the March 3, 2007 CCAC Council meeting concerning the need for the proposed new regulations and possible future steps.

### **National Council on Ethics in Human Research (NCEHR)**

The Executive Director represented the CCAC at the NCEHR Council meeting in Gatineau on June 17, 2006 and gave a short update on CCAC activities, with special focus on the recognition of the *CCAC guidelines on: endpoints* as an international reference document by the International Council for Laboratory Animal Science (ICLAS), and the publication of an article in *Science* on the matter. The President of the NCEHR, Dr. Glenn Griener, publicly commended the CCAC for this achievement. Commendatory comments were also issued by the Co-chair of the NCEHR Task Force on Accreditation regarding the value of the new *CCAC Program Review Form*.

The CCAC Executive Director gave a presentation on "Education on the Care and Ethical Use of Animals in Science" at the December 12, 2006 meeting of the Education Committee of the NCEHR Council. Invited speakers from the following organizations also participated: the Interagency Advisory Panel on Research Ethics, CIHR, HCan, and the US Office for Human Research Protection.

### **Canadian Veterinary Medical Association (CVMA)**

The CCAC sent a letter on February 20, 2007 proposing to accept CVMA's accreditation of Animal Health Technologist/Veterinarian Technician (AVT/VT) programs as evidence of pedagogical merit of live animal use by colleges, and encouraging the CVMA to similarly recognize the CCAC Certificate of GAP – Good Animal Practice® as tangible evidence of a program's commitment to



appropriate animal care and use, and to high standards of animal welfare.

## 2. At the International Level

The CCAC monitors developments at the international level and entertains relationships with advisory and governing bodies, and scientific societies interested in the use of animals in science. In addition, as per the *CCAC Five-Year Plan 2004-2009*, the harmonization of international standards is amongst the top priorities of the CCAC Guidelines Program. The following are supporting activities undertaken by the CCAC.

### **International Council for Laboratory Animal Science (ICLAS)**

Following the June 2005 recognition of the *CCAC guidelines on: endpoints* as an international reference document by ICLAS, an article on "Harmonization of Animal Care and Use Guidance", co-authored by Dr. Gilles Demers (ICLAS/CCAC), Dr. Gilly Griffin and Ms. Marie Bédard (CCAC), and Drs. Guy De Vroey (Johnson & Johnson, Belgium), Joseph Haywood (International Union of Pharmacology, US) and Joanne Zurlo (Institute for Laboratory Animal Research (ILAR), US), was published on May 5, 2006 under the Policy Forum section of the scientific journal *Science*.

On October 15, 2006, Drs. Clément Gauthier and Demers gave a presentation on the roles and responsibilities of ICLAS and the CCAC, respectively, at the World Organisation for Animal Health (OIE)-ICLAS Joint International Meeting held in Salt Lake City, US. On October 17, 2006, the CCAC Executive Director presented a report on the CCAC's international activities at the ICLAS International Consortium Meeting held in Salt Lake City, US.

On December 12, 2006, the CCAC confirmed its support for the nomination of Dr. Demers for a second term as President of ICLAS.

### **Association française des sciences et techniques de l'animal de laboratoire (AFSTAL)**

An invited CCAC workshop on the harmonization of the protocol review process was held on June 1, 2006 in Bordeaux, France, at the 32<sup>nd</sup> annual confer-

ence of the AFSTAL [French Association for Laboratory Animal Science] on the theme "Quelles espèces animales pour quels modèles?" [What animal species for what models?]. This well-attended workshop led to the initiation of structured networking activities to improve the consistency of protocol review in France, with plans to extend those activities to other French speaking countries.

### **United States Department of Agriculture (USDA)**

In August 2006, recognizing the role of the CCAC in providing oversight of marine mammals held in captivity for educational purposes in Canada, the Animal and Plant Health Inspection Service (APHIS) of the USDA requested the CCAC's collaboration to verify the accuracy of the information provided to the USDA-APHIS for the exportation to Canada of a restricted number of marine mammals for specific purposes in compliance with the *US Animal Welfare Act*.

### **American Association for Laboratory Animal Science (AALAS)**

On October 18, 2006, the Executive Director gave a presentation on "Animal Use Training for the Research Team in Canada" as part of the AALAS Seminar on Animal Use Training for the Research Team Around the World.

### **Institute for Laboratory Animal Research (ILAR)**

The ILAR of the US National Academy of Science organized a focus group meeting in Salt Lake City on October 14, 2006 on the status of scientific evidence to support housing requirements of non-human primates, dogs and rodents. Dr. Demers gave a presentation on ICLAS harmonization efforts, and Dr. Griffin provided the Canadian perspective on guidelines for housing and enrichment for rodents, non-human primates, and dogs.

### **Center for Alternatives to Animal Testing (CAAT)**

The first meeting of worldwide Three Rs organizations was held on November 1-2, 2006 in Baltimore to celebrate the 25<sup>th</sup> anniversary of the John Hopkins CAAT. The Executive Director, the Guidelines Program Director, and the Research Fellow represented the CCAC at this première, and

participated in the November 1, 2006 ALTWEB Project Team Meeting where challenges facing the management of, and functional access to, the wealth of databases on alternatives available worldwide were discussed. Dr. Gauthier also gave a presentation showcasing the mission, objectives and achievements of the CCAC, and highlighted the issues faced in Canada regarding the promotion and acceptance of the Three Rs.

### **Sixth World Congress on Alternatives to Animal Use in Life Sciences (6WC)**

The CCAC Executive Director accepted an invitation to join the Organizing Committee for the 6WC, to be held in Japan in August 2007. A meeting of the Organizing Committee was held in Baltimore on November 3, 2006 where Dr. Gauthier was confirmed as the co-Chair of Theme 3-2: Moral, Ethical and Cultural Issues. At this meeting, the CCAC was also invited to indicate to members of the Alternative Trust Fund if it would be interested in hosting the Eighth World Congress on Alternatives in Canada in 2011.

## **3. Promoting the Principles of the Three Rs**

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The Task Force on the Three Rs was formed in March 2006 in order to examine ways to promote the Three Rs (Reduction, Replacement and Refinement) tenet of Russell and Burch. Members of the CCAC Task Force met in Ottawa on June 12, 2006 to review the Terms of References (TORs) of the Task Force and discuss short and long-term strategies for addressing the three responsibilities identified in the TORs.

In order to facilitate access to existing information on the Three Rs, as per the first recommendation of the Task Force, a concise introduction to alternatives and links to existing information was posted on the CCAC website. The CCAC is also working to find the necessary resources to ensure ongoing and adequate research/secretarial support for the promotion and implementation of the Three Rs.



# RESULTS BY BUSINESS LINE

The following are the main objectives set forth in the *CCAC Five-Year Plan 2004-2009* (published in March 2004) in order to establish clear goals for the CCAC's three programs:

- maintaining the 10-week delivery time line for assessment reports and decreasing delays in processing implementation reports;
- addressing bottlenecks precluding the development of scientifically-based guidelines thus enabling research to be carried out in a timely and sustainable manner;
- sustaining human resource development projects as requested by the granting Agencies; and
- increasing the effectiveness of CCAC's communications with the Canadian public as well as between CCAC programs, to achieve greater efficiency in support of the universal implementation of the CCAC programs.

The activities conducted by CCAC's four business lines during Fiscal Year 2006-2007 are outlined in the following section.

## 1. Assessment

The keystone to the CCAC Assessment Program is the local animal care committee set up by each participating institution according to the *Terms of Reference for Animal Care Committees* established by the CCAC. The CCAC Assessment Program, through a peer review process, is responsible for overseeing the care and use of animals for scientific purposes in Canada. Assessment visits are conducted by multi-disciplinary teams of experts and community representatives. Following every visit, a detailed report is prepared and forwarded to the institution.

### 1.1 Assessment Visits

Fifty full assessment visits and twenty-nine initial/orientation/special/interim visits were completed between April 1, 2006 and March 31, 2007. One institution from the academic sector and one

institution from the private sector joined the CCAC Program in 2006-2007.

### 1.2 Assessment and Implementation Reports

Detailed reports are prepared following each assessment visit, which may include recommendations, where necessary, to improve animal care and use to a standard in keeping with CCAC guidelines. Forty-eight assessment reports were produced between April 1, 2006 and March 31, 2007, with an average production time of eleven weeks.

Institutions must submit implementation reports to address the recommendations expressed in their assessment report. In the past, delays in the processing of implementation reports have occurred when the Assessment Sector must request additional information from institutions that have submitted incomplete reports, or due to a lack of time on the part of the assessment directors to review the reports. The Assessment Sector has improved its processing timelines for implementation reports through the staffing of the new position of manager of assessment communications.

### 1.3 Additional Assessment Sector Activities

#### Revised Terms of Reference

A revised version of the *CCAC policy statement on: terms of reference for animal care committees* was adopted by Council in March 2006 and was posted on the CCAC website in June 2006, with hard copies provided to all senior administrators responsible for animal care and use programs, chairs of animal care committees, directors of animal care, managers of animal facilities and university veterinarians. Institutions will be expected to adapt their own Terms of Reference and operations to this revised policy by September 2007.

#### CCAC – CFHS Manual for Community Representatives

The *CCAC–CFHS Manual for Community Representatives*, a joint publication of the CCAC and

the Canadian Federation of Humane Societies (CFHS), was developed and published on October 1, 2006, providing information to community representatives with regard to animal care and use in science, CCAC policies and guidelines, and the role of community representatives serving on animal care committees and CCAC assessment panels.

### **CCAC Survey of Animal Use**

The Assessment Sector completed the *CCAC Survey of Animal Use – 2005* and posted the results on the CCAC website in December 2006.

### **Interpretation Bulletin: Animal Use Data Form (AUDF)**

In June 2006, a hard copy of this first CCAC interpretation bulletin was provided to all chairs of animal care committees (ACCs). This document was developed to assist institutions in providing their annual animal use data. Previously, in January 2006, the bulletin was distributed electronically to the chairs of ACCs, directors of animal care and managers of animal facilities. Positive feedback from CCAC constituents was received regarding the usefulness of the document.

### **Policy for Senior Administrators**

The first draft of the *CCAC policy statement for: senior administrators responsible for animal care and use programs* has been developed by the Assessment Committee and is intended to provide general guidance to all senior administrators by detailing their fundamental responsibilities in maintaining sound standards of animal care and use. Both the English and French versions of the policy were posted on the CCAC website for widespread review in March 2007 and it is expected that the policy statement will be ready for publication by Fall 2007.

### **Continuing education for consulting and newly hired veterinarians**

Continuing education requirements for consulting and newly hired veterinarians working for a scientific animal care and use program have been established and integrated into the new *CCAC policy statement for: senior administrators responsible for animal care and use programs*.

The CCAC was a co-sponsor of the May 27, 2006 Consulting Workshop organized by the Canadian Association for Laboratory Animal Medicine (CALAM) in Montréal, QC, at which Dr. Michael Baar, Assessment Director, delivered a presentation on opportunities for consulting veterinarians in Canada. On the following day, he also gave a presentation on minimum requirements for continuing education for consulting veterinarians at the CALAM Annual General Meeting.

### **Revised Program Review Form**

The Assessment Sector is reviewing the *CCAC Animal Care and Use Program Review Form (PRF)* and developing a number of specific new sections tailored to different types of animal use which will be ready for distribution in 2007. The standard PRF, originally developed for large institutions that use animals in a laboratory setting, needed to be adapted for other types of animal use (i.e. fish, farm animals and wildlife) and for institutions with smaller animal-based programs.

## **2. Guidelines**

The delivery of the CCAC's mandate is based on guidelines and policies which give clear direction to institutional animal care and use programs. Guidelines are developed and revised in response to the current and emerging needs of the research community, advances in laboratory animal care, and the needs of the CCAC Assessment Program.

### **2.1. Guidelines Development**

#### ***CCAC guidelines on: the care and use of farm animals in research, teaching and testing***

The second draft of the farm animal guidelines was approved for widespread review by the Farm Animals Subcommittee and Guidelines Committee on May 16, 2006. Following the widespread review of these guidelines during the summer, the Guidelines Sector has been working with the subcommittee to evaluate feedback from the review and make appropriate changes in the draft.

#### ***CCAC guidelines on: genetically-engineered animals***

The peer review of these guidelines, held during the summer, highlighted a number of areas in the draft



guidelines where revision was needed. These areas are being worked on by the Guidelines Sector, with the assistance of the Biotechnology Subcommittee.

### **CCAC guidelines on: laboratory animal procedures – adopted guidelines on euthanasia**

The first draft of the adopted guidelines on euthanasia was circulated for peer review on June 5, 2006. Following subcommittee review of the comments received, the Guidelines Program Director (with assistance from members of the subcommittee), has been revising the text of the document in order to prepare it for widespread review.

### **CCAC guidelines on: the care and maintenance of marine mammals**

A subcommittee meeting was held on December 11-12, 2006, at the request of the subcommittee members, in order to resolve outstanding issues with the document, particularly in the area of public contact with marine mammals. A revised draft has recently undergone widespread review.

### **CCAC guidelines on: the procurement of animals used in science**

Following the first draft review, these guidelines underwent a major change in emphasis, requiring a significant amount of research and rewriting. The revised draft was posted on the CCAC website for widespread review in October 2006; the Guidelines Sector is currently working with the subcommittee to evaluate the comments that were received and to make the appropriate changes to the draft.

### **CCAC adoption of animal care and maintenance guidelines**

The Guidelines Program Director set up a small subcommittee to work on the adoption of guidance materials on the care and maintenance of rats. The subcommittee is currently reviewing the Australian *Guidelines for the Housing of Rats in Scientific Institutions*.

## **2.2 Additional Guidelines Program Activities**

### **Guidelines implementation**

Substantial work has been done by the Guidelines Sector on the species-specific recommendations to

accompany the wildlife guidelines. The birds section was sent to the subcommittee and a group of experts in November 2006 for a final review, and the small mammal section is currently under development.

### **International harmonization**

The Guidelines Program Director attended the following international meetings:

- 7<sup>th</sup> International Congress on Fish Biology on July 19-22, 2006 in St. John's, Newfoundland (delivered a presentation titled *Well-being – Do we know what it means for a fish?*);
- Meeting of the European Research Area Network on the Societal Aspects of Genomics (ERA-SAGE) in Ottawa on November 17, 2006, which examined mechanisms for funding studies relating to ethical issues in the use of gene technology;
- Meeting of the Association for the Study of Animal Behaviour (ASAB), in London, UK on November 30, 2006, (delivered a presentation titled *Full circle: behaviour into welfare, into guidelines, into welfare, into behaviour*), and satellite workshop on the implementation of the Three Rs in biological research. The President of ASAB subsequently contacted the CCAC to reference the paper "Incorporation of the Three Rs in Wildlife Research" (Griffin & Gauthier, 2004, *ATLA* 32: S215-219), in his consideration of the relevance of the Three Rs to behavioural research; and
- Meeting with UK Home Office Inspectors to discuss issues in relation to the farm animal guidelines, and visit a variety of facilities holding livestock for use in agricultural and biomedical research and testing.

### **Interaction with the scientific community**

The Guidelines Program Director attended the following scientific meetings:

- Test Smart DNT Symposium, Creating a Humane and Efficient Approach to Developmental Neurotoxicity Testing, in Virginia on March 13-15, 2006;

- the CVMA Animal Welfare Committee meeting in Ottawa on March 25-26, 2006 and in Vancouver on October 19-22, 2006;
- Association francophone pour le savoir (ACFAS) meeting in Montréal on May 17, 2006 (delivered presentation entitled *Lignes directrices du CCPA sur : les animaux modifiés par génie génétique*);
- CALAS/ACSAL Annual Symposium in Montréal on May 27-30, 2006 (delivered presentation titled *Training animal users – do we have the tools we need?*);
- the CCAC National Workshop in Montréal on May 26 and 31, 2006 (delivered a presentation at the French session titled *Lignes directrices du CCPA sur : les animaux modifiés par génie génétique*, and one at the English session titled *Guidelines Update*);
- Canadian Society of Animal Science session of the Joint Colloquium of the Canadian Societies of Animal Science, of Agronomy, and of Horticultural Science on August 3, 2006 in Halifax, Nova Scotia (delivered a presentation, *Best Practices in Agricultural Research and Teaching*, and a poster, *Implementation of the Three Rs in Agricultural Research and Teaching*);
- Genome Canada's first international conference, 2020 Vision: Variation and Function in the Genome, in Québec City on October 25-27, 2006 (delivered poster with the Research Fellow titled *Emerging technologies and the impact on the ethical use of animals in science*); and
- meeting of the Canadian Physiological Society on February 2-3, 2007 at Mont-Sainte-Anne, Québec (delivered presentation entitled *What's the problem with pain?*).

## 2.3 CCAC Fellowship

The second research fellow in animal policy development, Ms. Allison Guy, began her fellowship on September 5, 2006 and is working in the area of regulatory testing. This fellowship will build on the proceedings of the ICLAS/CCAC International Symposium on Regulatory Testing and Animal Welfare, held in 2001, and is intended to provide the CCAC with a more comprehensive understanding of the Canadian regulatory environment.

In addition, the fellowship is intended to provide insight into measures the CCAC could take to further encourage the implementation of the Three Rs in this area.

The Research Fellow has been actively working on background research in the area of testing. On October 23-24, 2006, she did a short stage at a contract research organization in Laval, Québec. She then undertook a second stage at the National Centre for the Three Rs (NC3Rs) in the UK from November 27 – December 19, 2006, where she examined the field of regulatory testing from an international perspective. As well as spending time with the staff of the NC3Rs, she: attended the UK Laboratory Animal Science Association meeting; met with representatives from a wide range of organizations concerned with regulatory testing; participated in a workshop on acute toxicity involving representatives from the NC3Rs, the pharmaceutical industry and regulators; and attended the second meeting of the European Partnership on Alternative Approaches to Animal Testing.

The Research Fellow also completed a course in qualitative methods at the University of Ottawa in preparation for the case-study component of the fellowship, and submitted an abstract to the International Congress on Toxicology.

## 3. Education, Training and Communications

### 3.1 Training and Education

#### National Institutional Animal User Training (NIAUT) Program

Members of the Education, Training and Communications Committee (ETCC) held discussions on August 4, 2006 concerning an appropriate methodology for the addition of training resources to cover existing guidelines. Several options for the development of training modules are being considered.

Fisheries and Oceans Canada agreed to share a series of training templates for fish users with CCAC constituents. Training modules on the anatomy and physiology of salmonids, anaesthe-



sia of finfish, euthanasia of finfish, blood sampling of finfish, length and weight measurement of finfish, and marking and tagging of finfish are now available on the CCAC website.

The Canadian Wildlife Service received financial assistance and collaboration from the CCAC for the development of a training module on migratory birds in research. This is the first time that a NIAUT training module has been developed by an outside organization; the project will serve as a pilot to determine costs and timelines associated with this approach.

### Workshops

The CCAC National Workshop 2006 was held on May 26, 2006 in French and on May 31, 2006 in English, in Montréal, QC. It was organized in conjunction with the CALAS Symposium to maximize attendance. Collaborators included specialists from several Canadian universities, federal departments, the Quebec Transgenic Research network (QTRN) and Dr. John Norton, Duke University, Durham (US). A wide range of topics were covered, including post-approval monitoring, the appropriate functioning of an ACC, the role and mandate of ACC members, bio-imaging, cryopreservation, and controversial topics in aquatic species research. Some of the presentations are now available on the CCAC website, in a format that includes the audio recording along with the PowerPoint presentations.

The CCAC participated in the 2006 CALAS/ ACSAL Symposium held on May 27-30, 2006 in Montréal, QC. A scientific session and a workshop for new members of animal care committees were given.

## 3.2 Communications

### Parliamentarians

The *CCAC Annual Report 2004-2005* was mailed to all federal members of Parliament and senators on April 26, 2006, with a cover letter explaining the role of the CCAC and the national and international recognition of its standards, and offering assistance with questions regarding animals used in science in Canada. Five members of Parliament and three senators forwarded feedback, including a request for assistance with Bill S-213.

### Media

The CCAC provided references and identified researchers to be interviewed by a journalist from the journal *Nature* for a special issue on laboratory animals that was published in November 2006.

Journalists from TVA and the CBC contacted the CCAC in September 2006 in relation to protests staged by animal rights activists in Montréal, QC.

The publication of the results of a study on the 1918 influenza virus pandemic, sponsored by the Public Health Agency of Canada in late January 2007, generated concerns in the media and the public about perceived inappropriate use of non-human primates in research. The CCAC Executive Director was interviewed by Radio Canada (Première chaîne, MB) and part of the interview, which concerned the functioning and role of animal care committees and the surveillance of animal use in Canada, was broadcasted on February 5, 2007 alongside supporting statements issued by a Montréal-based primate specialist.

### Information capsules

Information capsules on the following subjects were sent to constituents:

- CCAC National Workshop announcement (March 16, 2006);
- *CCAC guidelines on: endpoints* featured in *Science* (May 5, 2006);
- Removal of R&D Exemption for Notification of Organisms to Environment Canada/Health Canada (July 7, 2006);
- review of the second draft of the *CCAC guidelines on: the care and use of farm animals* (July 21, 2006);
- Additions to the CCAC website: *Proceedings of the CCAC National Workshop 2006*; *CCAC policy statement on: terms of reference for animal care committees*; and *CCAC Annual Report 2005-2006* (September 6, 2006);
- review of the draft *CCAC guidelines on: procurement of animals used in science* (October 25, 2006);

- publication of the *CCAC-CFHS Manual for Community Representatives* (November 14, 2006);
- publication of the *CCAC Survey of Animal Use – 2005* (December 22, 2006); and
- publication of the Winter 2006-2007 edition of *RESOURCE* (January 15, 2007).

### Website

A list server service was added to the CCAC website in September 2006 which allows registrants to automatically receive electronic publications from the CCAC as they become available. To date, the vast majority of subscribers to this service are from institutions participating in the CCAC Program.

Results from the *CCAC Survey of Animal Use – 2005* were published on the website in December 2006.

A new section, *Alternatives – the Three Rs*, was added to the website in February 2007. A distinctive logo to represent this new section was designed and posted on the main page.

The French translation of a presentation delivered by Dr. John Norton at the CCAC National Workshop 2006 was added to the website in January 2007.

### CCAC Electronic Library

A CD containing all of the CCAC guidelines, policies and training modules was created as an additional resource. The CD will be useful in a wide range of circumstances, such as for community representatives and researchers working in remote locations. It is expected that a new version of the CD will be created on a yearly basis.

### 3.3 Information Technology

The *Information Management and Internal Security Procedures at the Canadian Council on Animal Care* (2007) document was approved by the Board of Directors on January 10, 2007. A companion document, the *CCAC Information Technology Acceptable Use Policy*, was also approved for mandatory signature by all users of the CCAC network.

### 4. Finance

On September 30, 2006, the Finance Committee (FC) reviewed and approved the 2005-2006 auditors' report and recommended that the firm Logan Katz be re-appointed as the 2006-2007 auditors.

The FC reviewed the report of the April 1, 2006 – January 31, 2007 expenses by business line (Assessments, Guidelines, Education, Training and Communications) at the March 3, 2007 meeting and found that the information outlined gave a reliable indicator of how the budget covered each program.

On February 22, 2007, the FC reviewed the 2006-2007 year-end estimates and approved the CCAC 2007-2008 budget. The CCAC 2007-2008 budget was approved by the Board of Directors and Council.

At the February 27, 2007 Board of Directors meeting, as a follow-up to the business model, it was agreed to start charging for the following services not covered by the granting Agencies: the review of facility plans; additional special visits requested by institutions; and orientation visits for non-academic institutions. It was also agreed to seek funds to support consensus meetings for guidelines development, and research assistance for the CCAC Task Force on the Three Rs.

Alex Livingston, PhD  
Chair, CCAC  
March 2007



# APPENDIX I

## CCAC SURVEY OF ANIMAL USE – 2005

Total of Animals Used in 2005 per Species

<b>Species</b>	<b>Total in 2005</b>
Amphibia	29,674
Cats	3,480
Cephalopods	4
Chinchilla	30
Dogs	10,737
Domestic Birds	111,412
Farm Animals	85,756
Fish	640,569
Fur Animals	1,208
Gerbils	1,651
Guinea Pigs	33,135
Hamsters	6,204
Marine Mammals	733
Mice	942,346
Miniature Swine	112
Non-Human Primates	3,713
Rabbits	11,602
Rats	335,021
Reptiles	6,368
Canadian Wild Species	91,788
Other Non-Canadian Species	742
<b>Total</b>	<b>2,316,285</b>

For more details, visit [http://www.ccac.ca/en/Publications/New\\_Facts\\_Figures/intro.htm](http://www.ccac.ca/en/Publications/New_Facts_Figures/intro.htm)

# APPENDIX II

## MEMBERS ON CCAC ASSESSMENT PANELS

### Scientific Members

---

- Mr. John Batt, Dalhousie University
- Mme Nathalie Beaudoin, Hôpital Maisonneuve-Rosemont
- Ms. Linda Campbell, Vanier College
- \* Dr. Catherine B. Chan, University of Prince Edward Island
- \* Dr. Albert Clark, Queen's University
- \* Dr. Michael Clarke, University of Ottawa
- \* Dr. K. Fiona Cubitt, University of British Columbia
- \* Dr. Joseph Davison, University of Calgary
- \* Dr. Michel Flamand, Centre hospitalier de l'Université Laval
- Dr. Mercedes Kuroski-DeBold, University of Ottawa
- \* Dr. Pierre Lachapelle, McGill University
- \* Dr. Daniel Lajeunesse, Centre hospitalier de l'Université de Montréal
- Mr. Philip Lavoie, McGill University
- \* Dr. Suzanne MacDonald, York University
- \* Mr. Yvan Marineau, Université du Québec à Trois-Rivières
- Ms. Patricia Milke, University of Alberta
- \* Dr. Thomas Moon, University of Ottawa
- Dr. Geoffrey W. Payne, University of Northern British Columbia
- Dr. Alan C. Peterson, Royal Victoria Hospital/McGill University
- \* Dr. James Pfaus, Concordia University
- \* Dr. Dan Rurak, University of British Columbia
- \* Mr. Ralph Scheurle, University of Victoria
- \* Dr. René St-Arnaud, Shriners Hospital
- Ms. Kymberly Sutton, University of British Columbia
- \* Dr. Andrew Tasker, University of Prince Edward Island
- \* Dr. Mark Torchia, University of Manitoba
- Ms. Diane Trenouth, Carleton University

\* Identifies those members who have served as chairperson



## Canadian Federation of Humane Societies Representatives

---

Mr. Tim Battle, Edmonton, AB  
Mr. Rock Bédard, Ste-Adèle, QC  
Mme Reine Bélanger, Sherbrooke, QC  
Mr. Tim Brown, Ottawa, ON  
Mr. Martin Cole, Beaverton, ON  
Mr. Shawn Eccles, Surrey, BC  
Mrs. Susan Edwards, Guelph, ON  
Mr. Don Eppler, Winnipeg, MB  
Mme Lise Gagnier, LeGardeur, QC  
Mr. Brian Godfrey, Nanaimo, BC  
Ms. Mindy Hall, Newmarket, ON  
Mr. Andrew Hebda, Halifax, NS  
Mr. Doug Hewitt, Prince Albert, SK  
Ms. Carolyn Hickey, St. John's, NF  
Mme. Lise Houde, Ste-Adèle, QC  
Dr. Susan Huntley, Edmonton, AB  
Mr. Ian MacMillan, Saskatoon, SK  
Mr. Serge Marquis, SPA Mauricie, QC  
Ms. Ann Sherman, Charlottetown, PEI  
Mr. Jean-Louis Simard, Montréal, QC  
Ms. Evelina Smith, Lennoxville, QC  
Ms. Miriam Smith, Ottawa, ON  
Mr. Claude Tétreault, St-Simon, QC  
Mr. John Van der Hoeven, Maple Ridge, BC  
Mr. Robert Van Tongerloo, Manotick, ON  
Mr. Raymond Ward, Salisbury, NB

## Veterinarian Members

---

- \* Dr. Simon Authier, LAB Research Inc.  
Dr. Kate Banks, University of Toronto
- \* Dr. Toni Bayans, University of Alberta  
Dr. Ronald Charbonneau, CHUL / CHUQ  
Dr. Julie Chevette, Charles River Laboratories
- \* Dr. Wayne Cole, Ridgetown College  
Dr. Joanne Constantine, BC Ministry of Agriculture and Lands
- \* Dr. Howard Dobson, University of Guelph
- \* Dr. Andrew Fletch, McMaster University  
Dr. Diane Frank, Université de Montréal, Faculté de médecine vétérinaire  
Dre. Marie-Claude Gagnon, Centre hospitalier de l'Université de Montréal
- \* Dr. Tamara Godbey, University of British Columbia
- \* Dr. Stéphane Goulet, Private consultant  
Dr. Jim Gourdon, McGill University
- \* Dr. Richard Hodges, University of Manitoba  
Dr. Gerald Johnson, University of Prince Edward Island  
Dr. Nancy Kelly, Merck Frosst
- \* Dr. Clément Lanthier, Calgary Zoo  
Dr. Mathias Leblanc, McGill University  
Dr. Margarita Legaspi, LAB Research Inc.
- \* Dr. Marcus L. Litman, University of Guelph
- \* Dr. Alex Livingston, University of Saskatchewan  
Dr. Shelly A. McErlane, University of British Columbia
- \* Dr. Stéphane Ménard, Université de Montréal  
Dr. Brigitte Mercier, Zoo de Granby
- \* Dr. Badru Moloo, University Health Network  
Dr. Douglas Morck, University of Calgary
- \* Dr. Patrick N. Nation, Animal Pathology Services (APS) Ltd.
- \* Dr. Milton Ness, Northern Alberta Institute of Technology  
Dr. Gregory K. Parks, University of Alberta  
Dr. Patricia Turner, University of Guelph  
Dr. Daphné Veilleux-Lemieux, Université de Montréal
- \* Dr. Colette Wheler, University of Saskatchewan

\* *Identifies those members who have served as chairperson*



## APPENDIX III

### CONTRIBUTORS TO THE GUIDELINES PROGRAM

#### Subcommittee on biotechnology

---

- Dr. Bruce Murphy, Université de Montréal, Faculté de médecine vétérinaire (Chair)  
Dr. Garth Fletcher, Memorial University of Newfoundland  
Dr. Eike-Henner Kluge, University of Victoria  
Dr. Harpreet Kochhar, Canadian Food Inspection Agency, Ottawa  
Dr. Pascal Vachon, Université de Montréal, Faculté de médecine vétérinaire  
Dr. Barbara Vanderhyden, Ottawa Regional Cancer Centre  
Dr. Sui-Pok Yee, London Regional Cancer Centre

#### Subcommittee on farm animals

---

- Dr. Tarjei Tennessen, Nova Scotia Agricultural College (Chair)  
Dr. Laurie Connor, University of Manitoba  
Dr. Anne Marie de Passillé, Agriculture and Agri-Food Canada, Agassiz  
Dr. Ian Duncan, University of Guelph  
Dr. John Feddes, University of Alberta  
Dr. Marilyn Keaney, University of Ottawa  
Dr. Harpreet Kochhar, Canadian Food Inspection Agency, Ottawa  
Ms. Shelagh MacDonald, Canadian Federation of Humane Societies, Ottawa  
Dr. Jeff Rushen, Agriculture and Agri-Food Canada, Agassiz  
Dr. Fred Silversides, Agriculture and Agri-Food Canada, Agassiz  
Dr. Kim Stanford, Alberta Agriculture Food and Rural Development

#### Subcommittee on laboratory animal care

---

- Dr. Toni Bayans, University of Alberta  
Dr. Sylvia Craig, Dalhousie University  
Dr. Badru Moloo, University Health Network, Toronto

#### Subcommittee on laboratory animal procedures

---

- Dr. Ronald Charbonneau, Centre Hospitalier de l'Université Laval  
Dr. Andrew Fletch, McMaster University  
Dr. Jim Love, University of British Columbia  
Dr. Lee Niel, University of Toronto  
Dr. Ernest Olfert, University of Saskatchewan

## Subcommittee on marine mammals

---

Dr. Jon Lien, Memorial University of Newfoundland (Chair)  
Dr. Pierre-Yves Daoust, University of Prince Edward Island  
Mr. John Ford, Fisheries and Oceans Canada, Nanaimo  
Mr. Henrik Kreiberg, Fisheries and Oceans Canada, Nanaimo  
Dr. Clément Lanthier, Calgary Zoo  
Dr. Kay Mehren, Veterinarian Emeritus, Toronto Zoo  
Ms. Tracy Stewart, Marineland of Canada Inc., Niagara Falls  
Mr. Clint Wright, Vancouver Aquarium

## Subcommittee on procurement of animals used in science

---

Dr. Michael Baar, Canadian Council on Animal Care (Chair)  
Dr. Sally Cleland, Canadian Association for Laboratory Animal Medicine, Regina  
Dr. Susan Kilborn, Veterinary Internal Medicine Service, Ottawa  
Dr. John Kingma Jr., Université Laval  
Ms. Joy Ripley, Canadian Federation of Humane Societies, Calgary

## Subcommittee on testing

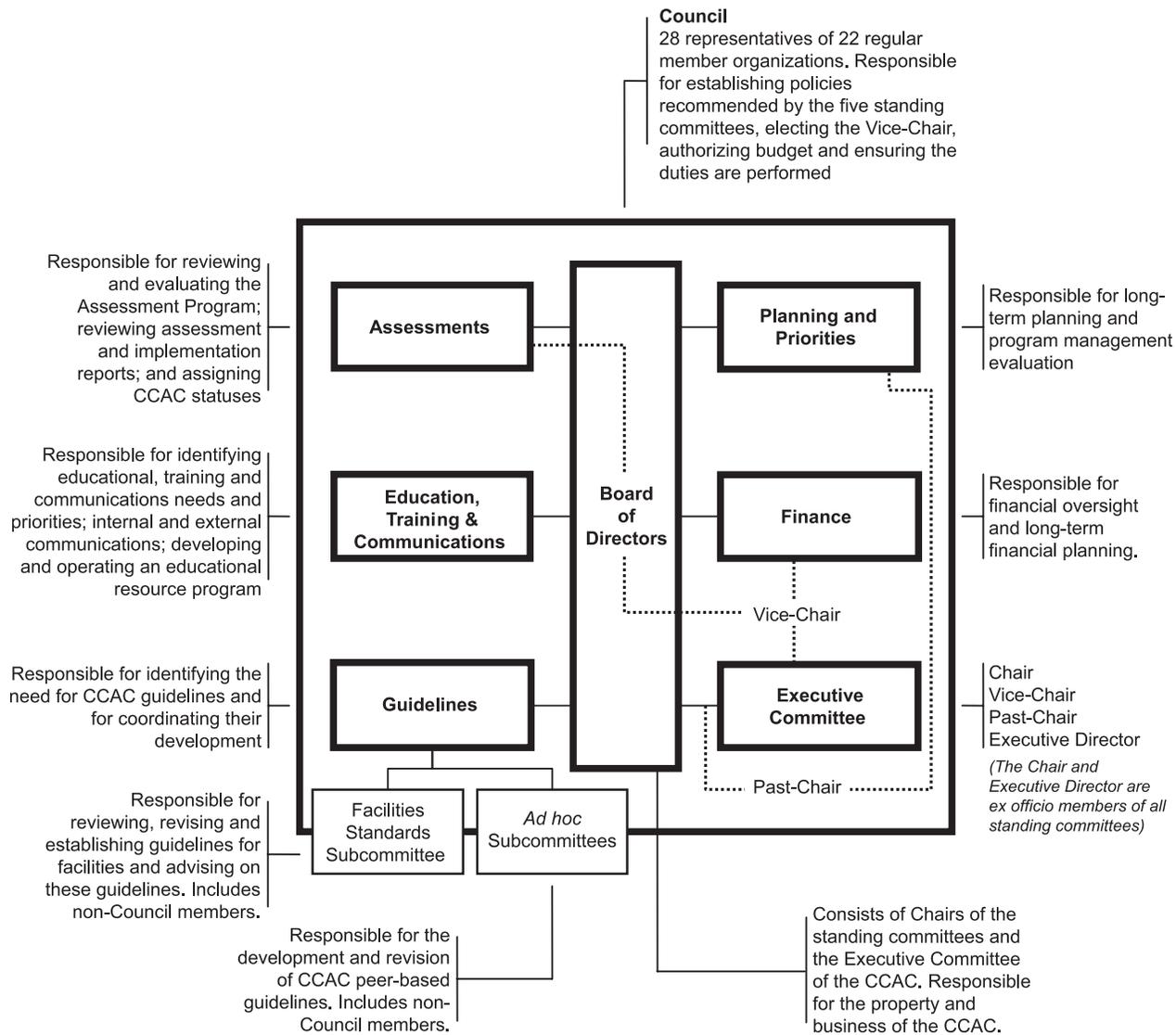
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Dr. Ronald Charbonneau, Centre Hospitalier de l'Université Laval  
Dr. Eileen Macallum, sanofi pasteur, Toronto  
Dr. Pierre Tellier, Charles River Laboratories Preclinical Services Montréal Inc.  
Dr. Patricia Turner, University of Guelph



# APPENDIX IV

## CCAC ORGANIZATIONAL CHART



# APPENDIX V

## MEMBERS OF THE CCAC STANDING COMMITTEES

### Planning and Priorities Committee

Dr. Joseph Davison (Chair)  
 Dr. Kristina Bennett-Steward  
 Mr. David Buffett  
 Ms. Michelle Crawley (Sept. 2006 – )  
 Dr. Andrew Tasker  
 Dr. Jim Thornhill  
 Dr. Alex Livingston (voting ex officio)  
 Dr. Clément Gauthier (ex officio)

### Finance Committee

Ms. Patricia Mortimer (Chair)  
 Ms. Michelle Crawley  
 Dr. Adolfo de Bold  
 Dr. Mark Evered  
 Mr. Keith Marshall  
 Dr. Jim Thornhill  
 Dr. Alex Livingston (voting ex officio)  
 Dr. Clément Gauthier (ex officio)

### Assessment Committee

Dr. Mark Evered (Chair)  
 (Apr. 2006 – Sept. 2006)  
 (voting ex officio)  
 Dr. Luc Chouinard (Chair)  
 (Sept. 2006 – Mar. 2007)  
 Dr. Diane Frank  
 Dr. Daniel Lamontagne  
 Dr. Eileen Macallum  
 Ms. Evelina Smith

Dr. Alex Livingston (voting ex officio)  
 Dr. Gilles Demers (ex officio)  
 Dr. Michael Baar (ex officio)  
 Ms. Marie Bédard (ex officio)  
 Dr. Clément Gauthier (ex officio)

### Education, Training and Communications Committee

Mr. Stephen Bjarnason (Chair)  
 Dr. Jim Clark  
 Dr. Sara Iverson  
 Dr. Marilyn Keaney  
 Dr. Thomas Moon  
 Dr. Elliott Scott  
 Dr. Alex Livingston (voting ex officio)  
 Dr. Clément Gauthier (ex officio)

### Guidelines Committee

Mr. Henrik Kreiberg (Chair)  
 Dr. David Blakey  
 Dr. Douglas Crawford  
 Dr. Peter Greer  
 Dr. Eike-Henner Kluge  
 Ms. N.A. Aedes Scheer  
 Dr. Valerie Stevens  
 Dr. Marina von Keyserlingk  
 Dr. Alex Livingston (voting ex officio)  
 Dr. Gilly Griffin (ex officio)  
 Dr. Clément Gauthier (ex officio)



## Board of Directors

---

Dr. Alex Livingston	Chair of Council
Dr. Mark Evered	Vice-Chair of Council Chair – Assessment Committee (Apr. 2006 - Sept. 2006)
Dr. Andrew Tasker	Past Chair of Council
Dr. Luc Chouinard	Chair – Assessment Committee (Sept. 2006 – Mar. 2007)
Dr. Joseph Davison	Chair – Planning and Priorities Committee
Mr. Stephen Bjarnason	Chair – Education, Training and Communications Committee
Mr. Henrik Kreiberg	Chair – Guidelines Committee
Ms. Patricia Mortimer	Chair – Finance Committee
Dr. Clément Gauthier	Executive Director ( <i>ex officio</i> )

# APPENDIX VI

## CCAC MEMBER ORGANIZATIONS AND REPRESENTATIVES

Agriculture and Agri Food Canada (AAFC)	Dr. Valerie Stevens
Association of Canadian Faculties of Dentistry (ACFD)	Dr. Elliott Scott
Association of Faculties of Medical Colleges (AFMC)	Dr. Jim Thornhill
Association of Universities and Colleges of Canada (AUCC)	Ms. Michelle Crawley
	Dr. Mark Evered
	Dr. Daniel Lamontagne
	Dr. Andrew Tasker
Canada's Research Based Pharmaceutical Companies (R&D)	Dr. Luc Chouinard
Canadian Animal Health Institute (CAHI)*	Dr. Kristina Bennett-Steward
Canadian Association for Laboratory Animal Medicine (CALAM)	Dr. Marilyn Keaney
Canadian Association for Laboratory Animal Science (CALAS)	Dr. Eileen Macallum
Canadian Bioethics Society (CBS)	Dr. Eike-Henner Kluge
Canadian Council of Departments of Psychology (CCDP)	Dr. Douglas Crawford
Canadian Federation of Humane Societies (CFHS)	Ms. N.A. Aedes Scheer
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	Mr. David Buffett
Canadian Food Inspection Agency (CFIA)*	Dr. Jim Clark
Canadian Institutes of Health Research (CIHR)	Dr. Joseph Davison
Canadian Society of Zoologists (CSZ)	Dr. Tom Moon
Canadian Veterinary Medical Association (CVMA)*	Dr. Diane Frank
Canadian Faculties of Agriculture and Veterinary Medicine (CFAVM)	Dr. Marina von Keyserlingk
	Dr. Alex Livingston
Department of National Defence (DND)	Mr. Stephen Bjarnason
Environment Canada (EC)	Mr. Keith Marshall
Fisheries and Oceans Canada (DFO)	Mr. Henrik Kreiberg
Health Canada (HCan)	Dr. David Blakey
Heart and Stroke Foundation of Canada (HSFC)	vacant
National Cancer Institute of Canada (NCIC)	Dr. Peter Greer
National Research Council (NRC)	Ms. Patricia Mortimer
Natural Sciences and Engineering Research Council (NSERC)	Dr. Sara Iverson
Royal Society of Canada (RSC)	Dr. Adolfo de Bold

\* Identifies limited term member



# APPENDIX VII

## CCAC SECRETARIAT CONTACTS

### Administration Sector

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### Education, Training and Communications Sector

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