

Canadian Cancer Society Awards for Excellence in Cancer Research (AFE-23)

Nomination Guide

Canadian Cancer Society

October 2023 Version 1



CCS Awards for Excellence in Cancer Research Nomination Guide

APPENDIX E: Instructions on submitting the Nomination Dossier

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About the Canadian Cancer Society

The Canadian Cancer Society is the only national charity that supports Canadians with all cancers in communities across the country.

Our vision is to create a world where no Canadian fears cancer. We fund ground-breaking research, provide trusted information about cancer, offer programs and services to help people with cancer and their families cope, and advocate to governments for important social change to make healthy living easier.

CCS has been funding cancer research since 1947 and is today the largest national charitable funder of cancer research in Canada. In 2022, we invested more than \$50.1 million in innovative and impactful research projects from coast to coast. Through our funded research, we aim to reduce the burden of cancer by more effectively preventing, detecting and treating the disease in a more equitable way, so that fewer people will get cancer and more people with cancer can live longer, fuller lives.

We are a collective of people united by the same goals. Our collective includes people with cancer, their families, friends and healthcare teams, donors, scientists, advocates, CCS staff and volunteers. We couldn't do what we do, including funding game-changing cancer research, without all of these committed individuals and partner organizations. Together, we are a forcefor-life in the face of cancer.

For more information on CCS and the support system we offer, visit <u>cancer.ca/en/.</u>

For more information on research funding opportunities, visit cancer.ca/en/research/forresearchers.



Description of the Awards

The Canadian Cancer Society Awards for Excellence in cancer research recognize individuals who have made, and are making, valuable contributions to the cancer research ecosystem in Canada. Recipients are leaders in their fields who exemplify excellence in science and outstanding service to the scientific community. Posthumous nominations are not eligible.

Winners will be recognized and will receive a personalized glass plaque commemorating their award. Each award also comes with a \$20,000 contribution to the recipient's research program.

Canadian Cancer Society Lifetime Contribution Prize

The Lifetime Contribution Prize will be given to an esteemed investigator whose contributions to cancer research in Canada extend beyond traditional research accomplishments and outputs. The recipient of this award will be an individual permanently residing in Canada who has enhanced the Canadian cancer research landscape through their vision and leadership in the development of networks, collaborations, resources, and/or infrastructure that have/has significantly benefitted people in Canada affected by cancer. In addition, the recipient of this award has demonstrated a deep commitment to training the next generation of cancer researchers.

Canadian Cancer Society Inclusive Excellence Prize

The Inclusive Excellence Prize¹ will be given to an individual who has demonstrated leadership and impact in the advancement of equity, diversity, inclusion and accessibility as it relates to the cancer research ecosystem² in Canada. CCS recognizes that the best outcomes in research are derived through leveraging the diversity that is Canada's strength. Research ecosystems that reflect the population are known to ask more diverse research questions, have more innovative approaches, ideas and solutions and are thus more likely to produce outcomes that have impact at a population - as well as an individual - level. The recipient of this award will be an individual permanently residing in Canada whose efforts reflect a genuine commitment to fostering inclusive excellence and whose work has led to significant, measurable impacts that may include greater diversity in Canada's cancer research landscape, and/or enhanced equity in the delivery of cancer care for underserved populations.

Canadian Cancer Society Robert L. Noble Prize

The Robert L. Noble Prize is given for outstanding achievements in basic biomedical cancer research. It is named in honour of Dr Noble, an esteemed Canadian investigator whose research in the 1950s led to the discovery of vinblastine, a widely used anticancer drug. At the time, vinblastine was one of the most effective treatments available for Hodgkin lymphoma.

The recipient of this award will be an investigator permanently residing in Canada whose contributions have led to significant accomplishments in a body of work in basic biomedical cancer research and who is, normally, still engaged in the conduct of cancer research.

Canadian Cancer Society O. Harold Warwick Prize

The O. Harold Warwick Prize is given for outstanding achievements in cancer control research. It is named in honour of Dr Warwick, a pioneering researcher in cancer control and treatment, and the first executive director of the former National Cancer Institute of Canada and the Canadian Cancer Society.

The recipient of this award will be an investigator permanently residing in Canada whose contributions have led to significant advances in cancer control and who is, normally, still engaged in the conduct of cancer research.



For the purposes of this award, cancer control is meant to include clinical (including clinical trials), health services, epidemiological, behavioural, psychosocial, population-based or similarly applied research aimed at reducing the burden of cancer. Cancer control does not include research in the basic biomedical sciences.

Canadian Cancer Society Bernard and Francine Dorval Prize

The Bernard and Francine Dorval Prize is given to an early career investigator whose outstanding contributions to basic biomedical research have the potential to lead, or have already led to improved understanding of cancer treatments and/or cures. It is named in honour of Bernard and Francine Dorval, whose longstanding support of CCS has helped to raise more than two million dollars in support of CCSfunded research, policy work and programs.

The recipient of this award will be an early career investigator permanently residing in Canada who began their independent research career within the previous 12 years. To account for the impact of the COVID-19 pandemic on the research community, please note that CCS has temporarily extended the eligibility window for early career investigators for another year - all those who began their independent research career after December 31, 2010 will be eligible for nomination. Taking into consideration any leaves, the start of the independent career will be defined as the date that the candidate was first appointed as an independent scientist or faculty member.

Canadian Cancer Society William E. Rawls Prize

The William E. Rawls Prize is given to an early career investigator whose outstanding contributions have the potential to lead to, or have already led to important advances in cancer control. It is named in honour of Dr Rawls, past president of the former National Cancer Institute of Canada. His research focused on viruses, particularly those involved in chronic diseases and cervical cancer.

The recipient of this award will be an early career investigator permanently residing in Canada who began their independent research career within the previous 12 years. To account for the impact of the COVID-19 pandemic on the research community, please note that CCS has extended the eligibility window for early career investigators for another year - all those who began their independent research career after December 31, 2010 will be eligible for nomination. Taking into consideration any leaves, the start of the independent career will be defined as the date that the candidate was first appointed as an independent scientist or faculty member.

For the purposes of this award, cancer control is meant to include clinical (including clinical trials), health services, epidemiological, behavioural, psychosocial, population-based or similarly applied research aimed at reducing the burden of cancer. Cancer control does not include research in the basic biomedical sciences.



¹ See CCS Research Inclusive Excellence Action Plan for additional context.

² Cancer research ecosystem is defined as the network of cancer researchers, postdoctoral fellows, students, technical staff, knowledge users, health care providers and community stakeholders, including patients, survivors and caregivers, who are synergistically contributing to the generation, synthesis, dissemination, exchange and application of cancer research in Canada.

Nomination Guide

Four easy steps:

- 1. Create your nomination
- 2. Add your nominator
- 3. Complete your nomination
- 4. Validate and submit your nomination

Additional resources:

- Appendix A: CV template
- Appendix B: Guidance on preparing the nomination dossier
- Appendix C: Best practices for writing letters nominator/referees
- Appendix D: Evaluation criteria
- Appendix E: Instructions on submitting the Nomination Dossier

Deadline:

Nominations due: January 17, 2024, 5:00 pm EDT/EST.

For questions:

• Contact CCS Research staff at research@cancer.ca



STEP 1: Create your nomination profile

Nominees must first create their own nomination(s) in EGrAMS in advance of the deadline date. Once you have provided your nominator(s) contact information, they will be able to access your submission and upload the supporting nomination dossier. Nominees are then responsible for uploading their CVs and completing other relevant information, and submitting their own nomination(s) in EGrAMS by the award deadline date.

Please note that you will not be able to view the nomination dossier(s) submitted by your nominator(s). Check the Application Workbench to monitor the status of your supporting documents.

- 1. Log in to EGrAMS to access the home screen/Application workbench.
- 2. Click the Awards for Excellence 2023 program under the Funding opportunities section on the left.
- 3. Enter AFE-23 in the Project ID field (the Program code). If you are being nominated for more than 1 award, enter AFE-23-2 in the Project ID field of the second nomination submission.
- 4. Enter the name of the award you are being nominated for into the **Title** field see the list of awards below. For multiple nominations, you must enter the name of each award separately.
 - Lifetime Contribution Prize
 - Inclusive Excellence Prize
 - Robert L. Noble Prize
 - O. Harold Warwick Prize
 - Bernard and Francine Dorval Prize
 - William E. Rawls Prize

Empty Host Institution field

The **Host Institution** field is auto-populated from information provided in your user profile. If this field is blank, you will need to go back to your profile and add your Host Institution there.



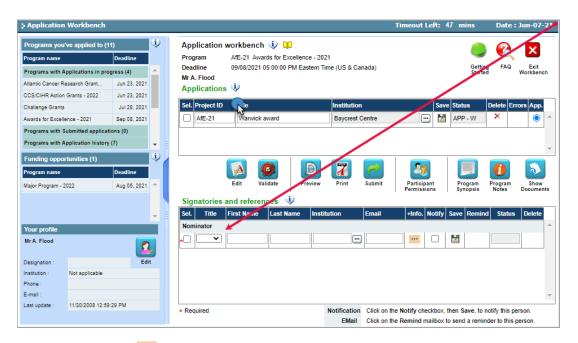


5. Click the disk icon to 🔀 save your application.

STEP 2: Add your nominator

Your nominator must upload your nomination dossier, comprised of a letter of nomination and two letters of reference, in one PDF document. Guidance on preparing the nomination dossier is provided in Appendix B. In order to grant access to your nomination form, you must designate your nominator as a reference and provide their contact information.

1. From the Application workbench, complete the Signatories and references section by providing your nominator's title, name, institution and email address.



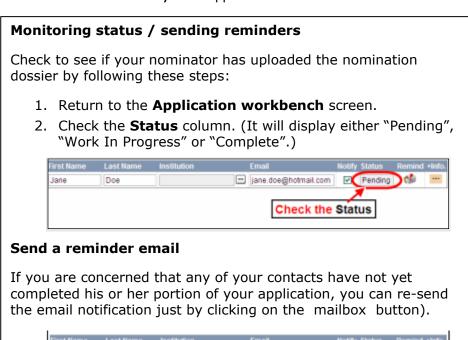
2. Click the dot icon under the +Info heading and complete the Reference Additional Info window for Department, Position/Title and Phone.



3. **IMPORTANT:** Ensure that the **Notify** checkbox is checked.



- This ensures that EGrAMS will send an automated email message to your nominator **as soon** as you click the save icon.
- The email will contain a unique URL that will grant access to section 7a and 7b. Nomination Dossier.
- If you are not yet ready to grant access to your nomination form, do not check off the Notify checkbox.
- 4. Alternatively, if you prefer to notify your nominator at a later time, you can still enter their information and check off **Notify** when applicable.



Click to re-send e-mail notification

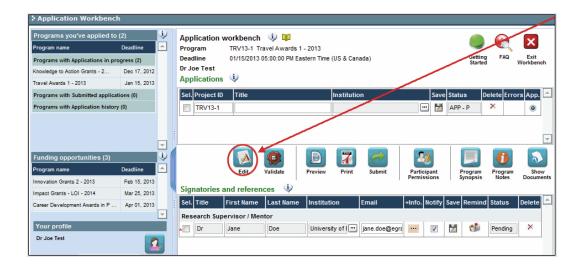


- 5. Click the disk icon to save your entry.
 - An email containing a unique URL for access to the Nominator section of your form will be sent out to the nominator immediately. If the status shows "pending" or "work in progress", click on the mailbox icon to send a reminder.



STEP 3: Complete your nomination

- I. Access the nomination form
- 1. Ensure that **Awards for Excellence 2023** is selected in the workbench.
 - if not, click the program name on the left under Programs with Applications in progress
- 2. Click the edit button to access the nomination form:



- 3. Click on the background tab to begin.
- II. Enter details of your nomination

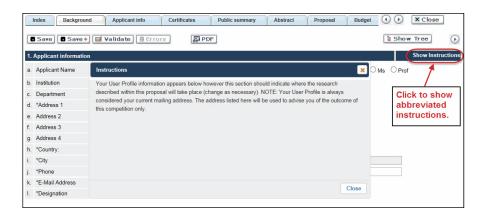
Format for document attachments:

Document attachments (e.g. CVs, letters, etc.) **must be submitted in PDF format, and must not exceed 5 MB** in size. The system will reject documents that do not meet these standards.

Access instructions within the nomination form:

Abbreviated instructions for completion of each page of the nomination form are provided within the nomination form itself. Click 'Show Instructions' to access them.

These are not meant to be comprehensive – please consult this Nomination Guide, along with the awards description on our website to complete your nomination:



III. Quick links to page-by-page instructions

Background

- 1. Nominee information
- 2. Nomination information

Nominee Info

- 3. Nominee CV
- 4. <u>Justification for career interruptions</u>

Review Committee

5. Review committee

Release Form

6. Release form

Nomination Dossier

- 7a. Nominator information
- 7b. Nomination dossier



BACKGROUND

1. Nominee information

The contents of this page will be pre-populated from your user profile.

2. Nomination information

a. Select which award you are being nominated for. Candidates can be nominated for one award, plus the Inclusive Excellence Prize. Candidates can also be nominated for the Inclusive Excellence Prize alone.

If you are being nominated for more than 1 award, you will need to create a separate nomination submission for each award you are being nominated for.

b. Indicate if this submission is a renomination.



NOMINEE INFO

3. Nominee CV

Attach an up-to-date CV following the template provided in Appendix A. It is important for consistency of the review process that the template be followed.

Career interruptions including, but not limited to, maternal and paternal leaves, extended sick leaves, medical leaves and family care will be considered, but must be described in Section 4.

Naming convention: Note that the file name will auto populate the Attachment Title, please use the following format: [lastname firstname-CV].

4. Justification for career interruptions

Describe any career interruptions or delays that may have impacted your academic career and research productivity. Please include the start and end dates of each period described (yyyy/mm). Period described will be taken into consideration when calculating career stage of nominees.

COVID-dependent interruptions will be automatically taken into consideration.

If not applicable, please indicate this in the form.



Your justification **should not exceed 1250 characters** (including spaces), or roughly one full page, single spaced. Note that the character count may be different when copying text from Word due to formatting.

REVIEW COMMITTEE

5. Review Committee

Select the review committee according to the award you are being nominated for.

RELEASE FORM

6. Release form

For successful nominations, the nominee must declare their understanding that CCS will post award results on our website and potentially include a summary of the nominee's research accomplishments and impact in our reports to donors/the public, press releases, social media or other communications.

NOMINATION DOSSIER

Important! You do not have access to these sections (7a and 7b) in EGrAMS. To send reminders or to check if your nominator has uploaded your nomination dossier, return to the Application Workbench and check the Status column. It will display either "pending", "work in progress" or "complete".



7a. Nominator information

Your nominator will be required to enter their contact information (name, department and institution).

7b. Nomination dossier

The nomination and support letters must be <u>uploaded by your nominator</u> in one PDF document no larger than 5MB. Please consult <u>Appendix B</u> for information required in the nomination letter and letters of reference.

Read only access for applicants: This section can only be completed by the Nominator designated in <u>Step 1: Add Nominator</u>.

Refer to Step 2 to track the status of your nomination dossier.

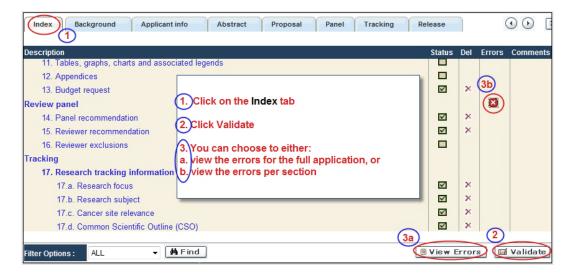


STEP 4: Validate and submit your nomination

I. Validation

Before you can submit your nomination, you must complete a validation process to identify any items left incomplete or filled out incorrectly. You can choose to either a) validate the full nomination submission, or b) validate one section at a time.

a) Validate the full nomination submission



b) Validate one section at a time

Must be conducted once for every section (e.g. Background, Nominee Info, etc.) of the nomination. Sections are identified as tabs in the banner across the top of the nomination.

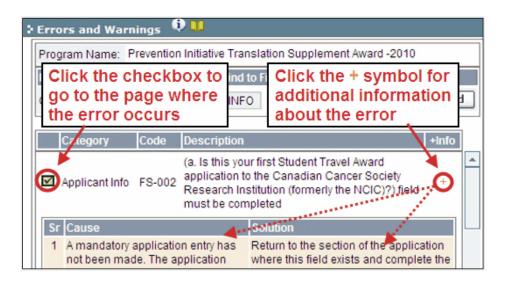
Upon completion of all pages within a tab/section of the application, click the **Save** button. Next click the Validate button:



For both type a) and b) validation, follow the below instructions:

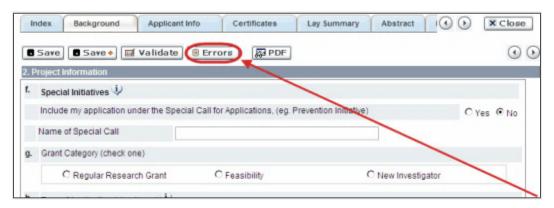
- 1. If errors are found, a dialogue box will open with details.
 - Click the + symbol under the +Info heading for information about the cause and solution of the error.
 - Click the checkbox to the left of the error listing to be taken to the page where the error has occurred.



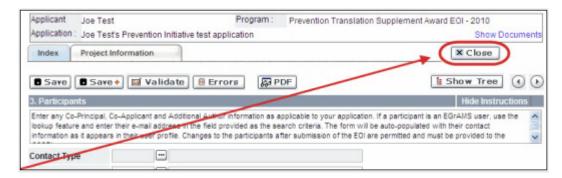


2. To view the dialogue box with the list of errors again, click the **Errors** button.

Note: The list of errors will not be updated to reflect any corrections you've made until you click **Save** and then **Validate** again.



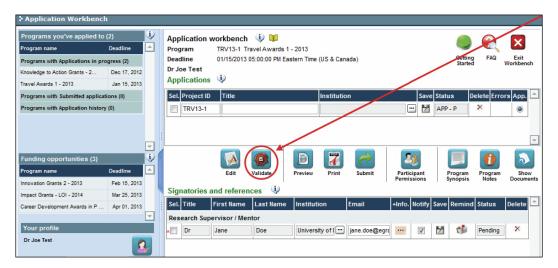
3. When all errors are resolved for every section, click the Close button to exit the nomination form.



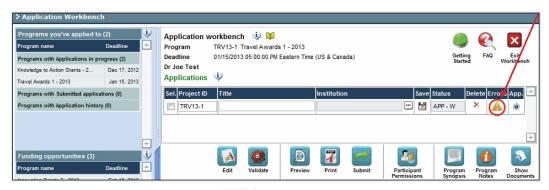


II. Preview and submission

1. From the **Application workbench**, click the validate button to do a final validation of your nomination.



2. If Errors are found, click the button for information about the errors.



- 3. Errors can be corrected through the menu.
- 4. To generate a PDF of your nomination (excluding your nomination and reference letters), click the button:
- 5. To preview your nomination in EGrAMS, click the [9] button:
 - Use the left side menu links to navigate to specific pages, or use the forward/backward arrows to view page by page.
 - Click the **Close** button to exit the preview screen.
- 6. Once you've validated all errors, click the button.



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Once your nomination is submitted, a confirmation email will be sent to you by EGrAMS.

APPENDIX A: Nominee CV template

Nominees are requested to provide (at a minimum) the following information in their CV to assist the committee in their assessment. Note that this is an integral part of the evaluation process, therefore no page limit has been applied.

Nominees must adhere to CCS's prescribed CV template. Failure to comply may result in removal of the CV component and/or disqualification. This form can also be downloaded here in Word format (see Templates section).

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POSITION TITLE:

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include doctoral, postdoctoral, and residency training if applicable. Add/delete rows as necessary.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	COMPLETION DATE MM/YYYY	FIELD OF STUDY

Brief Biography (Optional):

A. Academic appointments

List in chronological order the academic appointments you've held concluding with your present appointment. For each entry, indicate appointment, department, institution, and start and end dates.

B. Awards and honours

List in chronological order the awards and honours you've held that are relevant to your nomination, concluding with the most recent one. Include any relevant academic and professional achievements.

C. Leadership positions

List in chronological order the leadership positions you've held that are relevant to your nomination, concluding with the most recent one.

D. Research Grant Support



List grant support received over your entire academic/research career.

Grant title:

Source:

Total amount of funding: Grant term: Start – End dates

Role:

Grant participants:

E. Significant Contributions

Describe your <u>5 most</u> significant contributions and their importance/relevance to this award over your entire academic/research career. Contributions may include but not limited to the following (in alphabetical order):

- advances to equity, diversity, inclusion and accessibility in the research ecosystem
- advocacy efforts in support of cancer research or care
- community service
- contributions to policies, regulations and guidelines
- development of tools utilized by other researchers or the general public
- membership or leadership roles in boards or committees
- mentorship and career development of trainees and early career investigators
- traditional research outputs (academic research publications, book chapters, conference proceedings, etc.)

CCS encourages the inclusion of a broad range of contributions and outputs beyond academic research publications, especially for nominees for the Lifetime Contribution and Inclusive Excellence Prizes.

Provide a brief description of your contribution and the significance or impact to your field and/or community.

F. ORCID (if available)

Provide a link to your Open Researcher and Contributor ID (ORCID) profile, if available.

G. Invited Conference Presentations

List invited presentations relevant to this award, including (at a minimum), the conference year and title, and the title and type of presentation given.

H. Patents Granted & Licensed

List any patents granted or licensed relevant to this award, including (at a minimum) names, numbers and dates.

I. Mentorship/Supervision

List students and trainees supervised formally (including any awards won), by year(s) and name. Include current position if known and applicable.

J. Peer Review & Related Contributions

List peer review, advisory committee memberships and other related voluntary contributions to the research community. Include geographical scope (local, provincial, national, international) where applicable.



K. Publications (All)

List all publications over your entire academic/research career.

L. Other relevant information

If applicable, please include any other relevant information to support your nomination.



APPENDIX B: Guidance on preparing the nomination dossier

For the Lifetime Contribution, Robert L. Noble, O. Harold Warwick, Bernard and Francine Dorval, and William E. Rawls Prizes, each nomination package must be uploaded in EGrAMS by the nominator as one PDF file not to exceed 5 Mb, including the following:

- 1. **One nomination letter** from an appropriate authority from the nominee's host institution (nominator)
- 2. **A reference letter** from an individual from *outside* of the host institution who can attest to the impact of the nominee's research/contributions (*referee*)

For the *Lifetime Contribution* prize - this letter may include testimonials from researchers who have benefitted from the nominee's contributions in order to support statements made by the referee. Testimonials must be cohesively presented (i.e. avoid snippets/blurbs) and will help present a complete picture of the nominees and the impact of their accomplishments.

3. A reference letter from a qualified expert in the nominee's field who can attest to the international significance and impact of the nominee's research program/contributions (referee)

For senior-level prizes (Noble and Warwick) and Lifetime Contribution award – at least one of the reference letters must be from a recognized international authority in the candidate's field who does not reside in Canada.

The nomination letter (maximum 4 pages) and reference letters (maximum 2 pages each) <u>must be</u> <u>submitted in PDF format, presented on official letterhead, dated and signed</u>. Nominators and referees are to include a brief description of their position as well as their professional relationship with the applicant to put their recommendations into context.

The three (3) letters should collectively contain the following information:

- for early career investigators:
 - the nominator's letter should include the start date of the candidate's first independent academic career (contact <u>CCS research staff</u> for questions regarding eligibility)
- For the Lifetime Contribution award:
 - the nominator's letter should include a description of the candidate's demonstrated commitment to training and mentorship. An exhaustive list of trainees is not necessary, but it would be insightful to get a sense of the career paths pursued by the trainees (e.g., academia, industry, and others) and how the mentorship and guidance provided by the candidate was instrumental to their success.
 - the nominator's letter must clearly articulate what the nominee's legacy is/will be to the Canadian cancer research community
- a detailed description of the candidate's contributions to cancer/cancer research in Canada and internationally where relevant
- if the candidate's research/contributions have had a direct impact on the treatment or management of cancer, indicate the actual or potential benefits to the Canadian public, and internationally where applicable
- the candidate's research productivity in terms of scholarly contributions, research funding track record and forged collaborations in Canada and internationally where applicable. Highlight any publications in the individual's CV which you believe are particularly noteworthy



- highlight service to the research community and/or the Canadian Cancer Society and/or evidence of outreach efforts to the general public
- regarding consideration of circumstances which may have impacted the nominee's career progression (see Appendix D - Evaluation criteria) - where possible, any barriers should be explained

For the Inclusive Excellence Prize, each nomination package must be uploaded in EGrAMS by the nominator and must include:

- 1. One nomination letter from an individual who has firsthand knowledge of the nominee's efforts in the advancement of equity, diversity, inclusion and accessibility in the cancer research ecosystem in Canada (nominator)
- 2. Two reference letters from individuals who have directly observed or benefitted from the nominee's leadership in fostering inclusive excellence (referees)

Note: one or more of the letters may include testimonials from individuals whose career trajectories, research programs, etc. have been impacted directly by the efforts of the individual in order to support the statements made by the referee. Testimonials must be cohesively presented (i.e. avoid snippets/blurbs) and will help present a complete picture of the nominee and what they have accomplished.

The nomination letter (maximum 4 pages) and reference letters (maximum 2 pages each) must be submitted in PDF format, presented on official letterhead (as applicable), dated and signed. Nominators and referees are to include a brief description of their position as well as their professional relationship with the applicant to put their recommendations into context.

The three (3) letters should collectively contain the following information:

- a detailed description of the candidate's efforts/actions towards fostering inclusive excellence in Canada's cancer research ecosystem
- a detailed account of the specific impact(s) on Canada's cancer research ecosystem
- evidence (if applicable) that the candidate is viewed as an equity, diversity, inclusion and accessibility leader in Canada
- note that the nominee does not have to be a cancer (or equity, diversity and inclusion) researcher, but if their program of research focuses on equity, diversity, inclusion and accessibility this should be highlighted.

Note that personal identifiers of individuals impacted by the candidate's efforts and contributions towards equitable capacity building should not be disclosed. CCS is looking for the strategies and approaches nominees have employed in their efforts to advance and foster inclusive excellence in Canada's research ecosystem.

Renominations

We encourage renominations where eligible. For renominations, nominees must complete a new nomination form in EGrAMS, indicate the submission is a renomination and provide an updated CV. Nomination dossiers may be updated as desired to reflect new contributions, but CCS will also accept letters provided within the past 4 years to account for COVID-19 disruptions. Nominators must re-upload the nomination dossier in EGrAMS.



Please ensure that submissions for nominees to the early career investigator awards remain eligible within the 12-year award window. To account for the impact of the COVID-19 pandemic on the research community, please note that CCS has extended the eligibility window for early career investigators for another year – all those who began their independent research career after December 31, 2010 will be eligible for nomination.



APPENDIX C: Best Practices for Writing Letters - Nominator / Referee

Multiple studies have revealed notable differences in the language used by referees in letters of recommendation depending on the subject's gender. For example, several research groups that compared letters written for male and female applicants found that those written for females were shorter and included 'communal' and 'grindstone' terminologies describing character (e.g. selfless, helpful, warm) and effort (e.g. tireless, diligent, committed), respectively. Conversely, letters written for males were generally longer, emphasized achievements and included 'standout' and 'agentic' descriptors associated with leadership and power (e.g. outstanding, excellent, independent, daring, intelligent).^{1,2,3,6,8} Similarly, albeit less studied, several groups have reported that the subject's race can influence the choice of words and tone used by referees when drafting letters, with fewer agentic terminologies used when describing individuals belonging to minority groups, despite similar credentials with non-minority applicants.^{1,4,5} Collectively, these studies attributed the differences observed to implicit biases that can positively and negatively affect an individual's perceptions, behaviours and decisions in an unconscious manner.

Implicit bias is the unconscious association of attributes and stereotypes to people based on characteristics such as race, age, education, ability/disability, religion, socioeconomic status, and appearance. These biases are developed over time through exposure to social norms and expectations. As previously reported, the effects of unconscious bias can negatively impact an applicant's overall success in obtaining research funding and reinforce further inequities in academia. It is, therefore, imperative to recognize when opportunities for bias occur and be vigilant in minimizing them.

Below, we offer best practices and resources from various sources¹⁻⁸ for nominators and referees to carefully consider when drafting their letters:

- Focus comments on the candidate's research skills and academic (and other award-related) achievements rather than their interpersonal attributes. Address the points requested and exclude personal information not relevant to the nomination.
- Carefully consider the choice of words, tone and length of the letter and whether they would
 differ depending on the subject's demographics. Consider whether the same descriptors would be
 used for another candidate with equivalent credentials, but of a different
 demographic background.
- Refer to the candidate's formal title and surname rather than their first name.
- Avoid using language that could unintentionally raise doubt (e.g. hedges, ambiguous comments, faint praises, potentially negative language, and irrelevancies). Provide concrete examples, when applicable.

Additional resources:

- CIHR Unconscious Bias Training: https://cihr-irsc.gc.ca/lms/e/bias/
- Harvard Implicit Association Test: https://implicit.harvard.edu/implicit/takeatest.html
- Gender bias calculator: http://slowe.github.io/genderbias/
- The University of Arizona Commission on the Status of Women: Avoiding gender bias in reference writing:
 - https://csw.arizona.edu/sites/default/files/avoiding_gender_bias_in_letter_of_reference_writing.pdf
- Earth Science Women's Network: Guide to avoid racial bias in reference letter writing: https://eswnonline.org/guide-to-avoid-racial-bias-in-reference-letter-writing/



References:

- 1. Akos, P. & Kretchmar, J. Gender and Ethnic bias in Letters of Recommendation: Considerations for School Counselors. Professional School Counseling. (2016).
- 2. Dutt, K., et al. Gender differences in recommendation letters for postdoctoral fellowships in geoscience. Nature Geoscience. (2016).
- 3. Filippou, P., et al. The Presence of Gender Bias in Letters of Recommendations Written for Urology Applicants. Urology. (2019).
- 4. Grimm, L., et al. Gender and Racial Bias in Radiology Residency Letters of Recommendation. Journal of the American College of Radiology. (2020).
- 5. Houser, G. & Lemmons, K. Implicit bias in letters of recommendation for an undergraduate research internship. Journal of Further and Higher Education. (2018).
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APPENDIX D: Evaluation Criteria

Bernard and Francine Dorval / William E. Rawls Prizes (early career prizes):

Nominees will be evaluated according to the criteria described below.

Overall contributions to cancer research and potential to lead to (or evidence of having led to) improved cancer prevention, diagnosis, treatments, care, support or cancer control will be considered.

Circumstances which may have impacted the nominee's academic career progression and research productivity are taken into consideration, including but not limited to:

- Additional training requirements and career interruptions (personal (including 'two-body' problem¹ in academia), family responsibilities, medical leaves etc.) contributing to a non-linear or unconventional career trajectory
- Inequitable distribution of institutional resources including start-up packages, laboratory or office space and formal mentorship
- Historical policies and procedures that perpetuate biases in hiring, tenure and promotion
- Biases in assignment of authorship roles in publications (e.g. first and last author roles)
- Underrepresentation of individuals from the four designated groups (women, Indigenous peoples, persons with disabilities and members of visible minorities) among conference keynote speakers and/or panelists and invited lecturers

Expectations for excellence will be commensurate with the research discipline and relative career stage of the nominee.

Criteria:

- Research productivity: nominee's publication record in peer-reviewed journals, quality and type of scholarly work published, degree of contribution, number of citations, and continuity of publication production (barring any interruptions); other forms of research outputs including, but not limited to, conference proceedings, policy reports, patents, and commercialization products.
- Research grant funding: as the lead investigator and as part of multi-investigator teams (noting that multi-investigator teams may require additional time/effort to generate successful outcomes); nominee's role(s) and potential impact of contribution(s) to the team will be considered.
- Fellowships, honours, and/or awards received by the nominee: scope and relevance (i.e. provincial, national, or international) of distinctions received will be considered.
- Training the next generation of cancer researchers: relative to career stage and other considerations (career interruptions, for example), evidence of participation in a meaningful way and to an appropriate degree towards the mentorship and support of trainees and fellows; evidence that trainees and fellows have been subsequently recognized for excellence themselves.
- Contributions made to date to scientific discipline: details of these and how critical they are/have been for advancing the knowledge in their immediate research field and the general scientific body of cancer research; potential for future contributions based on track record will be considered.
- Evidence (potential) of (for) leadership on a national and international scale: senior author publications in high quality journals (and citations thereof); success in securing peerreviewed research funding as a lead investigator; invitations to present at national and international conferences; participation on peer review panels and other professional

¹ Refers to dual-academic couples facing the challenge of both individuals obtaining desirable positions within a reasonable commuting distance.



contributions; community outreach; forging national and international collaborations; and importantly, impact (or likelihood of impact) on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and internationally.

Score	Nominee Rating Scale - Bernard and Francine Dorval & William E. Rawls Prizes (early career)
4.7-5.0	 Exceptional candidate who is extremely likely to become (or has already become) a leader in cancer research in Canada and internationally Exceptional contributions made to date to their scientific discipline and potential impact of future contributions based on track record Exceptional research productivity and track record in obtaining research grant funding relative to career stage Exceptional track record in mentorship and/or potential to attract high quality personnel Exceptional track record in obtaining fellowships, honours and/or awards
4.3-4.6	 Excellent candidate who is likely to become (or has already become) a leader in cancer research in Canada and internationally Excellent contributions made to date to their scientific discipline and potential impact of future contributions based on track record Excellent research productivity and track record in obtaining research grant funding relative to career stage Excellent track record in mentorship and/or potential to attract high quality personnel Excellent track record in obtaining fellowships, honours and/or awards
3.9-4.2	 Very good candidate who has the potential to become a leader in cancer research in Canada and internationally Very good contributions made to date to their scientific discipline and potential impact of future contributions based on track record Very good research productivity and track record in obtaining research grant funding relative to career stage Very good track record in mentorship and/or potential to attract high quality personnel Very good track record in obtaining fellowships, honours and/or awards
3.5-3.8	 Good candidate who has some potential to become a leader in cancer research in Canada and internationally Good contributions made to date to their scientific discipline and potential impact of future contributions based on track record Good research productivity and track record in obtaining research grant funding relative to career stage Good track record in mentorship and/or potential to attract high quality personnel Good track record in obtaining fellowships, honours and/or awards
3.0-3.4*	 Fair candidate who has limited potential to become a leader in cancer research in Canada Fair contributions made to date to their scientific discipline and limited potential impact of future contributions based on track record Fair research productivity and track record in obtaining research grant funding relative to career stage



	 Fair track record in mentorship and/or potential to attract high quality personnel Fair track record in obtaining fellowships, honours and/or awards
Below 3.0	 Poor candidate who has low potential to become a leader in cancer research in Canada Poor contributions made to date to their scientific discipline and low potential to yield impactful contributions in the future based on track record Poor research productivity and track record in obtaining research grant funding relative to career stage Poor track record in mentorship and/or potential to attract high quality personnel Poor track record in obtaining fellowships, honours and/or awards

^{*}Nominees scoring below 3.5 as an average of final scores will not be considered eligible to receive a prize.



Robert L. Noble / O. Harold Warwick Prizes (established career prizes):

Nominees will be evaluated according to the criteria described below.

Overall contributions to cancer research and the significance of their accomplishments to cancer prevention, diagnosis, treatment, care, support or cancer control in Canada and internationally will be considered.

Circumstances which may have impacted the nominee's academic career progression and research productivity are taken into consideration, including but not limited to:

- Additional training requirements and career interruptions (personal (including 'two-body' problem² in academia), family responsibilities, medical leaves, etc.) contributing to a non-linear or unconventional career trajectory
- Inequitable distribution of institutional resources including start-up packages, laboratory or office space and formal mentorship
- Historical policies and procedures that perpetuate biases in hiring, tenure and promotion
- Biases in assignment of authorship roles in publications (e.g. first and last author roles)
- Underrepresentation of individuals from the four designated groups (women, Indigenous peoples, persons with disabilities and members of visible minorities) among conference keynote speakers and/or panelists and invited lecturers

Criteria:

- Research productivity and outputs: nominee's publication record in peer-reviewed journals,
 quality and type of scholarly work published, degree of contribution, number of citations, and
 continuity of publication production (barring any interruptions); other forms of research outputs
 including, but not limited to, conference proceedings, policy reports, patents, and
 commercialization products.
- Research grant funding: as the lead investigator and as part of multi-investigator teams (noting that multi-investigator teams may require additional time/effort to generate successful outcomes); nominee's role(s) and potential impact of contribution(s) to the team will be considered.
- Honours, and/or awards received by the nominee: scope and relevance (i.e. provincial, national, or international) of distinctions received will be considered.
- Training the next generation of cancer researchers: relative to career stage and other considerations (career interruptions, for example), evidence of participation in a meaningful way and to an appropriate degree towards the mentorship and support of trainees and fellows; evidence that trainees and fellows have been subsequently recognized for excellence themselves and/or gone on to realize cancer research impacts themselves
- Contributions/discoveries made to cancer research: details of these and how critical they have been for advancing knowledge both in their immediate research field and for the general scientific body of cancer research; the importance of resulting impacts on cancer prevention, diagnosis, treatment, care, support or cancer control in Canada and internationally will be considered.
- Evidence of leadership on a national and international scale: recognition as an expert by peers, senior author publications in high quality journals, success in securing peer-reviewed research funding as a lead investigator, invitations to present at national and international conferences, participation on peer review panels, editorial boards and other professional contributions, community outreach, national and international collaborations will be

² Refers to dual-academic couples facing the challenge of both individuals obtaining desirable positions within a reasonable commuting distance.



considered; and importantly, demonstrated impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and internationally.

Score	Nominee Rating Scale – Robert L. Noble & O. Harold Warwick Prizes (established career)
4.7-5.0	 Exceptional evidence of scientific leadership on a national and international scale Exceptional contributions/discoveries made to date in their scientific discipline Exceptional research productivity and track record in obtaining research grant funding Exceptional and relevant recognition through honours and awards Exceptional track record in mentorship/training of the next generation of cancer researchers Exceptional impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and internationally
4.3-4.6	 Excellent evidence of scientific leadership on a national and international scale Excellent contributions/discoveries made to date in their scientific discipline Excellent research productivity and track record in obtaining research grant funding Excellent and relevant recognition through honours and awards Excellent track record in mentorship/training of the next generation of cancer researchers Excellent impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and internationally
3.9-4.2	 Very good evidence of scientific leadership on a national and/or international scale Very good contributions/discoveries made to date in their scientific discipline Very good research productivity and track record in obtaining research grant funding Very good recognition through honours and awards Very good track record in mentorship/training of the next generation of cancer researchers Very good impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and/or internationally
3.5-3.8	 Good evidence of some scientific leadership in Canada Good contributions/discoveries made to date in their scientific discipline Good research productivity and track record in obtaining research grant funding Good recognition through honours and awards Good track record in mentorship/training of the next generation of cancer researchers Good impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and/or internationally
3.0-3.4*	 Fair candidate who has limited evidence of scientific leadership in Canada Fair contributions made to date to their scientific discipline Fair research productivity and track record in obtaining research grant funding Fair recognition through honours and awards Fair track record in mentorship/training of the next generation of cancer researchers Limited impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population or internationally



 Poor candidate who has no evidence of scientific leadership in Canada Poor contributions made to date in their scientific discipline Poor research productivity and track record in obtaining research grant funding 		
 Poor recognition through honours and awards Poor track record in mentorship/training of the next generation of cancer researchers Limited to no impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population or internationally 	Below 3.0	 Poor contributions made to date in their scientific discipline Poor research productivity and track record in obtaining research grant funding Poor recognition through honours and awards Poor track record in mentorship/training of the next generation of cancer researchers Limited to no impact on cancer prevention, diagnosis, treatment, care and/or

^{*}Nominees scoring below 3.5 as an average of final scores will not be considered eligible to receive a prize.



Canadian Cancer Society Lifetime Contribution Prize (established career prize):

Nominees will be evaluated according to the criteria described below.

Primary consideration will be given to the nominee's contributions to cancer research that extend beyond traditional research accomplishments and outputs to have a significant impact on the Canadian cancer research ecosystem. A demonstrated commitment to training the next generation of cancer researchers must be evident. Circumstances which may have impacted the nominee's academic career progression and research productivity are taken into consideration, including but not limited to:

- Additional training requirements and career interruptions (personal (including 'two-body' problem³ in academia), family responsibilities, medical leaves, etc.) contributing to a non-linear or unconventional career trajectory
- Inequitable distribution of institutional resources including start-up packages, laboratory or office space and formal mentorship
- Historical policies and procedures that perpetuate biases in hiring, tenure and promotion
- Biases in assignment of authorship roles in publications (e.g. first and last author roles)
- Underrepresentation of individuals from the four designated groups (women, Indigenous peoples, persons with disabilities and members of visible minorities) among conference keynote speakers and/or panelists and invited lecturers

Criteria:

- Contributions to the Canadian cancer research ecosystem, and internationally, as applicable: vision and leadership in building networks, fostering collaborations, developing resources and infrastructure, and other contribution(s) that have/has significantly enhanced the cancer research ecosystem in Canada and internationally. The degree to which these contributions have impacted those affected by cancer, in Canada and internationally, as applicable, will be considered.
- Training the next generation of researchers: relative to career stage and other considerations (career interruptions, for example), evidence that the nominee participates in a meaningful way and to an appropriate degree towards the mentorship and support of trainees and fellows; evidence that trainees and fellows have been subsequently recognized for excellence themselves, including but not limited to securing academic positions in cancer research.
- Other considerations (to a lesser degree) include:
 - research productivity and outputs: publication record in peer-reviewed journals, quality and type of scholarly work published, degree of contribution, number of citations, and continuity of publication production (barring any interruptions); other forms of research outputs including, but not limited to, conference proceedings, policy reports, patents, and commercialization products
 - research grant funding: as the lead investigator and as part of multi-investigator teams (noting that multi-investigator teams may require additional time/effort to generate successful outcomes); the nominee's role(s) and potential impact of contribution(s) to the team.
 - honours, and/or awards: scope and relevance (i.e. provincial, national, or international) of distinctions received will be considered.
 - participation on peer review panels, editorial boards and other professional contributions, as well as community outreach and advocacy

³ Refers to dual-academic couples facing the challenge of both individuals obtaining desirable positions within a reasonable commuting distance.



Score	Nominee Rating Scale – Lifetime Contribution Prize (established career)
4.7-5.0	 Exceptional evidence of visionary leadership that has enhanced the cancer research ecosystem on a national and international level Exceptional impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and internationally Exceptional track record in mentorship/training of the next generation of cancer researchers Excellent research productivity, including publications and other outputs, grant funding, and professional contributions Excellent and relevant recognition through honours and awards
4.3-4.6	 Excellent evidence of visionary leadership that has enhanced the cancer research ecosystem on a national and/or international level Excellent impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and/or internationally Excellent track record in mentorship/training of the next generation of cancer researchers Very good research productivity, including publications and other outputs, grant funding, and professional contributions Very good and relevant recognition through honours and awards
3.9-4.2	 Very good evidence of leadership that has contributed to the cancer research ecosystem on a national and/or international level Very good impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and/or internationally Very good track record in mentorship/training of the next generation of cancer researchers Good research productivity, including publications and other outputs, grant funding, and professional contributions Good and relevant recognition through honours and awards
3.5-3.8	 Good evidence of leadership that has contributed to the cancer research ecosystem on a national and/or international level Good impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and/or internationally Good track record in mentorship/training of the next generation of cancer researchers Fair research productivity, including publications and other outputs, grant funding, and professional contributions Fair recognition through honours and awards
3.0-3.4*	 Fair evidence of leadership that has contributed to the cancer research ecosystem on a national and/or international level Fair impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and/or internationally Fair track record in mentorship/training of the next generation of cancer researchers Minimal research productivity, including publications and other outputs, grant funding, and professional contributions Minimal recognition through honours and awards



Below 3.0	 Limited to no evidence of leadership that has contributed to the cancer research ecosystem on a national and/or international level Limited to no impact on cancer prevention, diagnosis, treatment, care and/or support in the Canadian population and/or internationally Poor track record in mentorship/training of the next generation of cancer researchers Limited to no research productivity, including publications and other outputs, grant funding, and professional contributions Limited to no recognition through honours and awards

^{*}Nominees scoring below 3.5 as an average of final scores will not be considered eligible to receive a prize.



Canadian Cancer Society Inclusive Excellence Prize (any career stage prize):

Nominees will be evaluated according to the criteria described below.

Demonstrated leadership in the advancement of equity, diversity, inclusion, and accessibility leading to significant, measurable impacts that may include greater diversity in Canada's cancer research ecosystem, and/or enhanced equity in the delivery of cancer care for underserved populations will be considered.

Circumstances which may have impacted the nominee's career progression and research productivity (where applicable) are taken into consideration, including but not limited to:

- Additional training requirements and career interruptions (personal (including 'two-body' problem⁴ in academia), family responsibilities, medical leaves, disruptions brought by the COVID-19 pandemic, etc.) contributing to a non-linear or unconventional career trajectory
- Inequitable distribution of institutional resources including start-up packages, laboratory or office space and formal mentorship
- Historical policies and procedures that perpetuate biases in hiring, tenure and promotion
- Biases in assignment of authorship roles in publications (e.g. first and last author roles)
- Underrepresentation of individuals from the four designated groups (women, Indigenous peoples, persons with disabilities and members of visible minorities) among conference keynote speakers and/or panelists and invited lecturers

Criteria:

Demonstrated leadership and a genuine commitment to the advancement of equity, diversity, inclusion and accessibility as it relates to the Canadian cancer research ecosystem including but not limited to: administrative/committee work; development and implementation of programs/strategies/policies; advocacy; a specific program of research; and/or recruitment, training and mentorship activities

- Demonstrated leadership and a genuine commitment to the advancement of health equity and reduction of health disparities for underserved populations including but not limited to: history of working collaboratively with community partners to address health equity issues; development and implementation of programs/strategies/policies that promote equity-focused models of care
- Evidence of impact may include: measurable (i.e. tangible) improvements in the diversity of Canada's cancer research landscape as a result of nominee's efforts in fostering inclusive excellence and/or enhanced equity in the delivery of cancer care for underserved populations.

⁴ Refers to dual-academic couples facing the challenge of both individuals obtaining desirable positions within a reasonable commuting distance.



Score	Nominee Rating Scale – Inclusive Excellence Prize (any career stage)
4.7-5.0	 Exceptional evidence of visionary leadership in the advancement of equity, diversity, inclusion and accessibility as it relates to the Canadian cancer research ecosystem Exceptional (measurably demonstrated) impact on the diversity of Canada's cancer research landscape And/or Exceptional evidence of transformative leadership in the advancement of health equity across the cancer care continuum for underserved populations Strongly recognized as an equity, diversity, inclusion and accessibility leader in Canada
4.3-4.6	 Excellent evidence of visionary leadership in the advancement of equity, diversity, inclusion and accessibility as it relates to the Canadian cancer research ecosystem Excellent (measurably demonstrated) impact on the diversity of Canada's cancer research landscape And/or Excellent evidence of transformative leadership in the advancement of health equity across the cancer care continuum for underserved populations
3.9-4.2	 Recognized as an equity, diversity, inclusion and accessibility leader in Canada Very good evidence of leadership in the advancement of equity, diversity inclusion, and accessibility as it relates to the Canadian cancer research ecosystem Very good (measurably demonstrated) impact on the diversity of Canada's cancer research landscape And/or Very good evidence of transformative leadership in the advancement of health equity across the cancer care continuum for underserved populations Acknowledged as an equity, diversity, inclusion and accessibility leader in Canada
3.5-3.8	 Good evidence of leadership in the advancement of equity, diversity, inclusion and accessibility as it relates to the Canadian cancer research ecosystem Good (measurably demonstrated) impact on the diversity of Canada's cancer research landscape And/or Good evidence of transformative leadership in the advancement of health equity across the cancer care continuum for underserved populations Some recognition as an equity, diversity, inclusion and accessibility leader in Canada
3.0-3.4*	 Fair evidence of leadership in the advancement of equity, diversity, inclusion and accessibility as it relates to the Canadian cancer research ecosystem Fair (measurably demonstrated) impact on the diversity of Canada's cancer research landscape And/or Fair evidence of transformative leadership in the advancement of health equity across the cancer care continuum for underserved populations Limited recognition as an equity, diversity, inclusion and accessibility leader in Canada



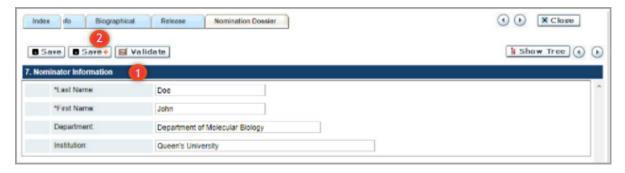
Below 3.0	 Limited to no evidence of leadership in the advancement of equity, diversity, inclusion and accessibility as it relates to the Canadian cancer research ecosystem Limited to no (measurably demonstrated) impact on the diversity of Canada's cancer research landscape And/or
	 Limited to no evidence of leadership in the advancement of health equity across the cancer care continuum for underserved populations Limited to no recognition as an equity, diversity, inclusion and accessibility leader in Canada

^{*}Nominees scoring below 3.5 as an average of final scores will not be considered eligible to receive a prize.



APPENDIX E: Instructions on submitting the Nomination Dossier

Access the website link included in your email notification. This page will be displayed:

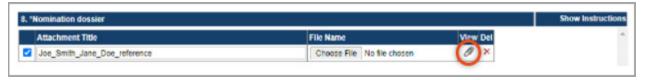


- 1. Enter your name, department, and institution (if applicable).
- 2. Press the **Save and proceed** button.
- 3. Click **Choose File** to upload your letter.
- 4. In the **Attachment Title** field, provide a title for the letter you are uploading. Use the following naming convention: applicant-name_your-name_reference e.g. joe-smith_jane-doe_reference
- 5. Press the **Save** button to save your attachment.



Best practice tip: Check that your letter has been uploaded.

To confirm that your letter has been successfully uploaded, click the paperclip:



Troubleshooting tip: URL does not work.

If the website address included in your email is not taking you to the page shown in the illustration above, this may be due to the URL being broken into two lines in your email display. Ensure that you are copying the complete website link into your browser.

If you have any questions regarding this process, please contact egrams@cancer.ca or research@cancer.ca.

