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Principal Investigator/Program Director (Last, first, middle): Wahlby, Carolina

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BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME Wahlby, Carolina		POSITION TITLE Computational Biologist Broad Institute of Harvard and MIT	
eRA COMMONS USER NAME (if essential, e.g., agency login) XXXXXXX			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Uppsala University, Uppsala, Sweden (Thesis work at the Karolinska Institute, Stockholm, Sweden)	M.Sc.	06/98	Molecular Biotechnology
Centre for Image Analysis, Uppsala University, Uppsala, Sweden Dept. Genetics and Pathology, Uppsala University, Uppsala, Sweden	Ph.D. postdoctoral	10/03 06/08	Digital Image Analysis Applied image analysis in molecular medicine

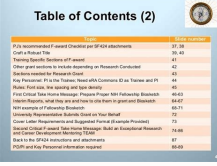
A. Personal Statement

The goal of the proposed research is to develop image analysis algorithms for high-throughput *C. elegans* assays to identify regulators of infection and metabolism. My research is focused on the development of algorithms for image analysis applied to biological images acquired by microscopy; the questions addressed have ranged from various types of quantification and mapping of fluorescent reporters in cells and tissue to single molecule classification on microarrays. My strongest expertise lies in image segmentation, which is a crucial initial step in every kind of image analysis task, before quantitative information can be robustly extracted from the objects of interest. The algorithms I developed for cell segmentation have served as a foundation for the open-source software CellProfiler and have proven very robust in high-throughput applications. At the Department of Genetics and Pathology, my postdoctoral research was very application-oriented, giving me broad experience in microscopy and issues related to sample preparation and handling in relation to image quality and analysis.

As project manager for the image analysis part of the EU-financed ENLIGHT project I successfully managed researchers from academia as well as industry in 5 different European countries, producing a number of peer-reviewed collaborative publications. This highly interdisciplinary project taught me the importance of communication between collaborators from different fields of expertise, which will be of importance for the proposed project. My experience from supervising PhD students as assistant and associate professor at Uppsala University has also helped me develop skills for project planning, execution and dissemination. My most recent work at the Imaging Platform of the Broad Institute has given me insight about many aspects related to high-throughput experiments, and the expertise available at the platform provides a strong support for the proposed project.

Initial work on *C. elegans* images in collaboration with my co-investigators Polina Golland and Tammy Riklin-Raviv at M.I.T. Computer Science and Artificial Intelligence Lab has already led to a peer-reviewed paper (Wahlby et al., 2010) describing methods applied to data provided by our main collaborators Gary Ruvkun and Fred Ausubel at Massachusetts General Hospital/ Harvard Medical School: a well established collaboration initiated by my co-investigator Anne Carpenter, leading to the publication of the first automated image-based screen on *C.elegans* (Moy et al., ACS Chemical Biology, 2009).

To conclude, my strong computational experience in combination with experience from collaborative interdisciplinary projects together with well established contacts provides a basis for successful project leadership.



NIH will require the use of the updated format pages for the previously mentioned submissions for anything on and after January 25, 2022. Information on Other Support is not specifically requested for Program Directors, training faculty, and other individuals involved in the oversight of training grants since applicable information is collected in other sections of a training grant application. Please direct all grants policy inquiries to: NIH Office of Policy for Extramural Research Administration (OPERA) Division of Grants Policy grantspolicy@nih.gov Institutional resources, such as core facilities or shared equipment that are made broadly available, should not be included in Other Support, but rather listed under Facilities and Other Resources. Reporting of Other Support is required for all individuals designated in an application as senior/key personnel—those devoting measurable effort to a project. Positions, Scientific Appointments, and Honors updated to read: List in reverse chronological order all positions and scientific appointments both domestic and foreign, including affiliations with foreign entities or governments. Each PD/PI or senior/key personnel must electronically sign their respective Other Support form as a PDF prior to submission. Instruction, Forms and Formats List A listing of all forms, formats and instructions grouped by their use. Until the SciENcv template is available, applicants and recipients are required to use the Word Format page to prepare Other Support information. Consulting agreements when the PD/PI or other senior/key personnel will be conducting research as part of the consulting activities. Other Support is not required to be submitted for individuals categorized as Other Significant Contributors. Immediate notification of undisclosed Other Support. Specific Changes to Biosketch Instructions - Updates A full copy of the updated Biosketch instructions can be found here. The updated forms and instructions will be required for use for applications and Research Performance Progress Reports (RPPR) submitted for due dates on or after May 25, 2021. This is an interim process, while NIH moves to the use of SciENcv templates for Other Support. An item or service given with the expectation of an associated time commitment is not a gift and is instead an in-kind contribution and must be reported as Other Support. Changes to specific sections are noted below: Personal Statement updated to read: Briefly describe why you are well-suited for your role(s) in this project. Section D is solely present on the fellowship version of the Biosketch, and no longer includes research support, only Scholastic Performance. When a recipient organization discovers that a PI or other Senior/Key personnel on an active NIH grant failed to disclose Other Support information outside of Just-in-Time or the RPPR, as applicable, the recipient must submit updated Other Support to the Grants Management Specialist named in the Notice of Award as soon as it becomes known. D. For the Fellowship Biosketch, Section D has been updated to remove 'Research Support.' As applicable, all applicants may include details on ongoing and completed research projects from the past three years that they want to draw attention to within the personal statement. Section A. Other Support Reminder: Other Support includes all resources made available to a researcher in support of and/or related to all of their research endeavors, regardless of whether or not they have monetary value and regardless of whether they are based at the institution the researcher identifies for the current grant. Resources Updated Biosketch resources, including FAQs and sample Biosketch format pages can be found here. Try SciENcv, a tool supporting multiple research agencies, to help you develop your biosketch and automatically format it according to NIH requirements. Other Support Format Page The format page has been re-organized to separate funded projects from in-kind contributions. As a normal matter of business, NIH will incorporate the changes into the NIH Application Form instructions within the next forms update by FY 2022. If the time commitment or dollar value of the in-kind contribution is not readily ascertainable, the recipient must provide reasonable estimates. This includes but is not limited to, financial support for laboratory personnel, and provision of high-value materials that are not freely available (e.g., biologics, chemical, model systems, technology, etc.). The changes are as follows: Format Page Changes Biographical Sketch Format Page Section B 'Positions and Honors' has been renamed 'Positions, Scientific Appointments, and Honors'. (May 18, 2021) A central email inbox for inquiries related to changes to the biographical sketch and other support templates. Questions re the biographical sketch and other support templates should be sent to: nihosbiosketch@nih.gov. Implementation of Changes to the Biographical Sketch and Other Support Format Page. A good option for those experienced with NIH grants. For more information, see: Biosketch Format Pages, Instructions and Samples. Effective Date Use of the updated format pages will be required for applications and Research Performance Progress Reports (RPPRs) submitted for due dates on or after May 25, 2021, has been removed. Biosketches are required in both competing applications and progress reports. NIH is finalizing the SciENcv template for Other Support and anticipates that the template will be available beginning in FY 2022. PA-22-051 - AHRQ Mentored Career Enhancement Awards for Established Investigators in Patient-Centered Outcome Research (K18) PA-22-050 - AHRQ Patient-Centered Outcomes Research (PCOR) Mentored Clinical Scientist Career Development Award (K08) PA-22-049 - AHRQ Patient-Centered Outcomes Research (PCOR) Mentored Research Scientist Career Development Award (K01) PA-22-047 PA-22-048 PA-21-265 PA-21-266 PA-21-264 NOT-OD-21-110 - Implementation of Changes to the Biographical Sketch and Other Support Format Page NOT-OD-19-114 - Reminders of NIH Policies on Other Support and on Policies related to Financial Conflicts of Interest and Foreign Components NOT-OD-21-122 - Announcing New Inbox for Inquiries Related to Changes to Biographical Sketch and Other Support Policies Now Available (August 2021) NIH has updated their FAQs and instructions for the revised NIH biosketch format including a sample for the Other Support section. Upcoming Changes to the Biographical Sketch and Other Support Format Page for Due Dates on or after May 25, 2021. Updated Requirements for Recipients: Effective May 25, 2021, NIH requires the following: Supporting documentation, which includes copies of contracts, grants or any other agreement specific to senior/key personnel foreign appointments and/or employment with a foreign institution for all foreign activities and resources that are reported in Other Support. In-kind contributions, e.g. office/laboratory space, equipment, supplies, or employees or students supported by an outside source. This includes titled academic, professional, or institutional appointments whether or not remuneration is received, and whether full-time, part-time, or voluntary (including adjunct, visiting, or honorary). Relevant factors may include: aspects of your training; your previous experimental work on this specific topic or related topics; your technical expertise; your collaborators or scientific environment; and/or your past performance in this or related fields, including ongoing and completed research projects from the past three years that you want to draw attention to (previously known as research support). Failure to follow the appropriate formats on or after January 25, 2022 may cause NIH to withdraw applications from or delay consideration of funding. This includes but is not limited to: Resources and/or financial support from all foreign and domestic entities, that are available to the researcher. Availability of Forms and Instructions - Updates: The updated format pages and instructions for Other Support can be found here. Recipients are reminded to establish and maintain effective internal controls (e.g. policies and procedures) to ensure that individuals designated in applications as senior/key personnel fully disclose all Other Support information to their institution as soon as it becomes known. Gifts are resources provided where there is no expectation of anything (e.g. time, services, specific research activities, money, etc.) in return. High school students and undergraduates may include any previous positions. Supporting Documentation: For Other Support submissions that include foreign activities and resources, recipients are required to submit copies of contracts, grants or any other agreement specific to senior/key personnel foreign appointments and/or employment with a foreign institution as supporting documentation. The form must be converted to a PDF, and electronically signed prior to submission. (April 28, 2021) To align applicant and recipient systems with NIH's longstanding policy requirements and application requirement updates, NIH expects applicants and recipients to use the updated biosketch and other support format for applications, Just-in-Time (JIT) Reports, and Research Performance Progress Reports (RPPRs) as of May 25, 2021. For individuals who are not currently located at the applicant organization, include the expected position at the applicant organization and the expected start date. Updated Other Support resources, including FAQs and sample Other Support format pages can be found here. If the contracts, grants or other agreements are not in English, recipients must provide translated copies. This supporting documentation must be provided as part of the Other Support PDF following the Other Support Format page. Other Support does not include training awards, prizes, or gifts. Additional resources, including training videos and other materials will be posted on the pages above as they become available. Investigators with an existing Biosketch in SciENcv will be able to transfer their current Biosketch information to the new format. If they are not in English, recipients must provide translated copies. Positions, Scientific Appointments, and Honors updated to read: List in reverse chronological order all positions and scientific appointments both domestic and foreign, including affiliations with foreign entities or governments. G.240 R&R Senior/Key Person Profile Expanded Form Instructions for a Biographical Sketch Personal Statement updated to read: Briefly describe why you are well-suited for your role(s) in this project. Scholastic Performance updated to remove 'Research Support'. Non-research consulting activities are not Other Support. Specific changes are below, in bold italics. Signature block added, for Program Director/Principal Investigator or Other Senior/Key Personnel to certify the accuracy of the information submitted. The updated format pages and instructions for the Biosketch can be found here. Find instructions, blank format pages, and sample biosketches below. The updated SciENcv Biosketch template will be available in March 2021. As a result, this Guide Notice informs the extramural community that NIH has updated its application forms and instructions to support the need for applicants and recipients to provide full transparency and disclosure of all research activities, foreign and domestic.

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