

## FDP Cost Reimbursement Subaward

**Federal Awarding Agency:**

**Pass-Through Entity (PTE):**

**Subrecipient:**

PTE PI:

Sub PI:

PTE Federal Award No:

Subaward No:

Project Title:

Subaward Budget Period:

Start: End:

Amount Funded This Action (USD): \$

Estimated Period of Performance:

Start: End:

Incrementally Estimated Total (USD): \$

### Terms and Conditions

1. PTE hereby awards a cost reimbursable subaward, (as determined by 2 CFR 200.331), to Subrecipient. The Statement of Work and budget for this Subaward are as shown in Attachment 5. In its performance of Subaward work, Subrecipient shall be an independent entity and not an employee or agent of PTE.
2. Subrecipient shall submit invoices not more often than monthly and not less frequently than quarterly for allowable costs incurred. Upon the receipt of proper invoices, the PTE agrees to process payments in accordance with this Subaward and 2 CFR 200.305. All invoices shall be submitted using Subrecipient's standard invoice, but at a minimum shall include current and cumulative costs (including cost sharing), breakdown by major cost category, Subaward number, and certification, as required in 2 CFR 200.415(a). Invoices that do not reference PTE Subaward number shall be returned to Subrecipient. Invoices and questions concerning invoice receipt or payments shall be directed to the party's Contact, shown in Attachment 3A.
3. A final statement of cumulative costs incurred, including cost sharing, marked "FINAL" must be submitted to PTE's Contact, as shown in Attachment 3A, not later than 60 days after The final statement of costs shall constitute Subrecipient's final financial report.
4. All payments shall be considered provisional and are subject to adjustment within the total estimated cost in the event such adjustment is necessary as a result of an adverse audit finding against the Subrecipient.
5. Matters concerning the technical performance of this Subaward shall be directed to the appropriate party's Principal Investigator as shown in Attachments 3A and 3B. Technical reports are required as shown in Attachment 4.
6. Matters concerning the request or negotiation of any changes in the terms, conditions, or amounts cited in this Subaward, and any changes requiring prior approval, shall be directed to the PTE's Contact and the Subrecipient's Contact shown in Attachments 3A and 3B. Any such change made to this Subaward requires the written approval of each party's Authorized Official as shown in Attachments 3A and 3B.
7. The PTE may issue non-substantive changes to the Budget Period(s) and Budget . Unilateral modification shall be considered valid 14 days after receipt unless otherwise indicated by Subrecipient when sent to Subrecipient's Contact, as shown in Attachment 3B.
8. Each party shall be responsible for its negligent acts or omissions and the negligent acts or omissions of its employees, officers, or directors, to the extent allowed by law.
9. Either party may terminate this Subaward with 30 days written notice. Notwithstanding, if the Awarding Agency terminates the Federal Award, PTE will terminate in accordance with Awarding Agency requirements. PTE notice shall be directed to the Contact, and Subrecipient notice shall be directed to the Contact as shown in Attachments 3A and 3B. PTE shall pay Subrecipient for termination costs as allowable under Uniform Guidance, 2 CFR 200, or 45 CFR Part 75 Appendix IX, as applicable
10. By signing this Subaward, including the attachments hereto which are hereby incorporated by reference, Subrecipient certifies that it will perform the Statement of Work in accordance with the terms and conditions of this Subaward and the applicable terms of the Federal Award, including the appropriate Research Terms and Conditions ("RTCs") of the Federal Awarding Agency, as referenced in Attachment 2. The parties further agree that they intend this subaward to comply with all applicable laws, regulations, and requirements.

By an Authorized Official of the PTE:

*Hilton Hallock*

Name:

Date

Title:

By an Authorized Official of the Subrecipient:

*David T. Wilson*

Name:

Date

Title:

## **Attachment 1**

### **Certifications and Assurances**

Subaward Number:

#### **Certification Regarding Lobbying (2 CFR 200.450)**

By signing this Subaward, the Subrecipient Authorized Official certifies, to the best of his/her knowledge and belief, that no Federal appropriated funds have been paid or will be paid, by or on behalf of the Subrecipient, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement in accordance with 2 CFR 200.450.

If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or intending to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the Subrecipient shall complete and submit Standard Form -LLL, "Disclosure Form to Report Lobbying," to the PTE.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

---

#### **Debarment, Suspension, and Other Responsibility Matters (2 CFR 200.214 and 2 CFR 180)**

By signing this Subaward, the Subrecipient Authorized Official certifies, to the best of his/her knowledge and belief that neither the Subrecipient nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any federal department or agency, in accordance with 2 CFR 200.213 and 2 CFR 180.

---

#### **Audit and Access to Records**

Subrecipient certifies that it will provide PTE with notice of any adverse findings which impact this Subaward. Subrecipient certifies compliance with applicable provisions of 2 CFR 200.501-200.521. If Subrecipient is not required to have a Single Audit as defined by 200.501, Awarding Agency requirements, or the Single Audit Act, then Subrecipient will provide notice of the completion of any required audits and will provide access to such audits upon request. Subrecipient will provide access to records as required by parts 2 CFR 200.337 and 200.338 as applicable.

---

#### **Program for Enhancement of Contractor Employee Protections (41 U.S.C 4712)**

Subrecipient is hereby notified that they are required to: inform their employees working on any federal award that they are subject to the whistleblower rights and remedies of the program; inform their employees in writing of employee whistleblower protections under 41 U.S.C §4712 in the predominant native language of the workforce; and include such requirements in any agreement made with a subcontractor or subgrantee.

---

The Subrecipient shall require that the language of the certifications above in this Attachment 1 be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

---

#### **Use of Name**

Neither party shall use the other party's name, trademarks, or other logos in any publicity, advertising, or news release without the prior written approval of an authorized representative of that party. The parties agree that each party may use factual information regarding the existence and purpose of the relationship that is the subject of this Subaward for legitimate business purposes, to satisfy any reporting and funding obligations, or as required by applicable law or regulation without written permission from the other party. In any such statement, the relationship of the parties shall be accurately and appropriately described.

---

#### **Prohibition on Certain Telecommunication and Video Surveillance Services or Equipment**

Pursuant to 2 CFR 200.216, Subrecipient will not obligate or expend funds received under this Subaward to: (1) procure or obtain; (2) extend or renew a contract to procure or obtain; or (3) enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services (as described in Public Law 115-232, section 889) as a substantial or essential component of any system, or as a critical technology as part of any system.

## Attachment 2

### Federal Award Terms and Conditions

Subaward Number

#### Required Data Elements

The data elements required by Uniform Guidance are incorporated

Awarding Agency Institute (If Applicable)

Federal Award Issue Date FAIN Assistance Listing No.

#### This Subaward Is:

Assistance Listing Program Title (ALPT)

Research & Development

Subject to FFATA

Key Personnel Per NOA

#### General Terms and Conditions

By signing this Subaward, Subrecipient agrees to the following:

1. To abide by the conditions on activities and restrictions on expenditure of federal funds in appropriations acts that are applicable to this Subaward to the extent those restrictions are pertinent. This includes any recent legislation noted on the Federal Awarding Agency's website:
2. 2 CFR 200
3. The Federal Awarding Agency's grants policy guidance, including addenda in effect as of the beginning date of the period of performance or as amended found at:
4. Research Terms and Conditions, including any Federal Awarding Agency's Specific Requirements found at:

except for the following :

  - a. No-cost extensions require the written approval of the PTE. Any requests for a no-cost extension shall be directed to the Contact shown in Attachment 3A, not less than 30 days prior to the desired effective date of the requested change.
  - b. Any payment mechanisms and financial reporting requirements described in the applicable Federal Awarding Agency Terms and Conditions and Agency-Specific Requirements are replaced with Terms and Conditions (1) through (4) of this Subaward; and
  - c. Any prior approvals are to be sought from the PTE and not the Federal Awarding Agency.
  - d. Title to equipment as defined in 2 CFR 200.1 that is purchased or fabricated with research funds or Subrecipient cost sharing funds, as direct costs of the project or program, shall vest in the Subrecipient subject to the conditions specified in 2 CFR 200.313.
  - e. Prior approval must be sought for a change in Subrecipient PI or change in Key Personnel (defined as listed on the NOA).
5. Treatment of program income:

#### Special Terms and Conditions:

##### Data Sharing and Access:

Subrecipient agrees to comply with the Federal Awarding Agency's data sharing and/or access requirements as reflected in the NOA or the Federal Awarding Agency's standard terms and conditions as referenced in General Terms and Conditions 1-4 above.

##### Data Rights:

Subrecipient grants to PTE the right to use data created in the performance of this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its PTE Federal Award.

##### Copyrights:

to PTE an irrevocable, royalty-free, non-transferable, non-exclusive right and license to use, reproduce, make derivative works, display, and perform publicly any copyrights or copyrighted material (including any computer software and its documentation and/or databases) first developed and delivered under this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its PTE Federal Award.

Subrecipient grants to PTE the right to use any written progress reports and deliverables created under this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its Federal Award.

##### Promoting Objectivity in Research (COI):

Subrecipient must designate herein which entity's Financial Conflicts of Interest policy (COI) will apply:

If applying its own COI policy, by execution of this Subaward, Subrecipient certifies that its policy complies with the requirements of the relevant Federal Awarding Agency as identified herein:

Subrecipient shall report any financial conflict of interest to PTE's Administrative Representative or COI contact, as designated on Attachment 3A. Any financial conflicts of interest identified shall, when applicable, subsequently be reported to Federal Awarding Agency. Such report shall be made before expenditure of funds authorized in this Subaward and within 45 days of any subsequently identified COI.

---

**Work Involving Human or Vertebrate Animals** (Select Applicable Options)

No Human or Vertebrate Animals

---

**Human Subjects Data** (Select One)

---

**Additional Terms**

**Attachment 3A**  
**Pass-Through Entity (PTE) Contacts**

Subaward Number:

---

**PTE Information**

Entity Name:

Legal Address:

Website:

---

**PTE Contacts**

Central Email:

Principal Investigator Name:

Email:

Telephone Number:

Administrative Contact Name:

Email:

Telephone Number:

COI Contact email (if different to above):

Financial Contact Name:

Email:

Telephone Number:

Email invoices?      Yes      No      Invoice email (if different):

Authorized Official Name:

Email:

Telephone Number:

---

**PI Address:**

**Administrative Address:**

**Invoice Address:**

## Attachment 3B

### Research Subaward Agreement Subrecipient Contacts

Subaward Number:

#### Subrecipient Information for [FFATA](#) reporting

Entity's UEI/DUNS Name:

EIN No.:

Institution Type:

UEI / DUNS:

Currently registered in SAM.gov: Yes No

Parent UEI / DUNS:

Exempt from reporting executive compensation: Yes

No  
(if no, complete 3B pg2)

#### Place of Performance Information for FFATA reporting

Physical Address, City, State (if U.S.) and Country:

**U.S. Entities only (insert information for Place of Performance):**

Congressional District:

Zip Code+4:

[Zip Code Look-up](#)

#### Subrecipient Contacts

Central Email:

Website:

Principal Investigator Name:

Email:

Telephone Number:

Administrative Contact Name:

Email:

Telephone Number:

Financial Contact Name:

Email:

Telephone Number:

Invoice Email:

Authorized Official Name:

Email:

Telephone Number:

**Legal Address:**

**Administrative Address:**

**Payment Address:**

**Attachment 3B-2**  
**Highest Compensated Officers**

Subaward Number:

---

**Subrecipient:**

Institution Name:

PI Name:

---

**Highest Compensated Officers**

The names and total compensation of the five most highly compensated officers of the entity(ies) must be listed if the entity in the preceding fiscal year received 80 percent or more of its annual gross revenues in Federal awards; and \$25,000,000 or more in annual gross revenues from Federal awards; and the public does not have access to this information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. §§ 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. See FFATA § 2(b)(1) Internal Revenue Code of 1986.

---

Officer 1 Name:

Officer 1 Compensation:

Officer 2 Name:

Officer 2 Compensation:

Officer 3 Name:

Officer 3 Compensation:

Officer 4 Name:

Officer 4 Compensation:

Officer 5 Name:

Officer 5 Compensation:

---

**Attachment 4**  
**Reporting and Prior Approval Terms**

Subaward Number:

Subrecipient agrees to submit the following reports (PTE contacts are identified in Attachment 3A):

---

**Technical Reports:**

Monthly technical/progress reports will be submitted to the PTE's \_\_\_\_\_ within \_\_\_\_\_ days of the end of the month.

Quarterly technical/progress reports will be submitted within 30 days after the end of each project quarter to the PTE's \_\_\_\_\_.

Annual technical / progress reports will be submitted within \_\_\_\_\_ days prior to the end of each budget period to the PTE's \_\_\_\_\_. Such report shall also include a detailed budget for the next Budget Period, updated other support for key personnel, certification of appropriate education in the conduct of human subject research of any new key personnel, and annual IRB or IACUC approval, if applicable.

A Final technical/progress report will be submitted to the PTE's \_\_\_\_\_ within \_\_\_\_\_ days of the end of the Project Period or after termination of this award, whichever comes first.

Technical/progress reports on the project as may be required by PTE's \_\_\_\_\_ in order for the PTE to satisfy its reporting obligations to the Federal Awarding Agency.

---

**Prior Approvals:**

Carryover:

---

**Other Reports:**

In accordance with 37 CFR 401.14, Subrecipient agrees to notify both the Federal Awarding Agency via iEdison and PTE's \_\_\_\_\_ within 60 days after Subrecipient's inventor discloses invention(s) in writing to Subrecipient's personnel responsible for patent matters. The Subrecipient will submit a final invention report using Federal Awarding Agency specific forms to the PTE's \_\_\_\_\_ within 60 days of the end of the Project Period to be included as part of the PTE's final invention report to the Federal Awarding Agency.

A negative report is required:

Property Inventory Report (only when required by Federal Awarding Agency), specific requirements below.

**Additional Technical and Reporting Requirements:**

**Attachment 5**  
**Statement of Work, Cost Sharing, Indirects & Budget**

Subaward Number:

**Statement of Work**

Below Attached, pages  
If award is FFATA eligible and SOW exceeds 4000 characters, include a *Subrecipient Federal Award Project Description*

**Budget Information**

<b>Indirect Information</b> Indirect Cost Rate (IDC) Applied % Rate Type:	<b>Cost Sharing</b> If Yes, include Amount: \$
------------------------------------------------------------------------------	---------------------------------------------------

**Budget Details** Below Attached, pages

**Budget Totals**

Direct Costs \$  
Indirect Costs \$  
Total Costs \$

*All amounts are in United States Dollars*

## Developing a Non-Lethal Aging Technique for Pacific Halibut: IPHC Scope of Work

The overarching goal of this proposal is to develop a genetic method for estimating the chronological age of Pacific halibut using fin tissue, a sample that can be obtained easily from live or dead individuals in a non-invasive manner. This method is based on the identification of DNA methylation patterns that are associated with age through the construction of a robust age estimation model for Pacific halibut. Although the proposed method represents an alternative aging method to traditional aging methods (otolith or scale aging) and not a replacement, it will have an impact in stock assessment as it will increase the number of aged individuals used for estimating the age structure of the Pacific halibut population since fin clips can be collected with little training and in areas not covered by IPHC field staff collecting otoliths. Furthermore, the proposed method is non-lethal and will provide age information to research projects and applications involving live Pacific halibut; such as migration and discard survival (including bycatch by non-directed fisheries) studies using tags or image recognition, captive studies, etc.; representing a novel approach to relate age and specific life history characteristics in live fish.

The specific objectives of this 2-year project are the following:

1. To identify DNA methylation signals in Pacific halibut fin tissue. Year 1.
2. To develop an age prediction model based on DNA methylation patterns: an epigenetic clock for Pacific halibut. Years 1 and 2.
3. To develop a targeted DNA methylation assay for larger scale age estimations. Year 2.

An APU graduate student (starting Spring 2025) will participate in all components of the proposed work. Specifically, the graduate student will be involved in DNA processing and library construction at the IPHC genetics laboratory, in bioinformatic processing of bisulfite sequencing data and age prediction model development at IPHC and APU, and in the development of a multiplex PCR assay at the AFSC-NOAA genetics laboratory.

Specific tasks to be undertaken by IPHC staff are the following:

1. All laboratory procedures including, but not limited to DNA processing and library construction
2. Bioinformatic analysis
3. Co-development (with APU faculty) of an age prediction model
4. Graduate student training for tasks 1-3
5. Co-authorship of conference presentations and peer-reviewed papers resulting from any part of the proposed work
6. Graduate student co-mentorship

Partner	Concept	Requested			In-kind			Total		
		Year 1	Year 2	Year1+2	Year 1	Year 2	Year1+2	Year 1	Year 2	Year1+2
IPHC										
	Salary	4357.00	8975.42	13332.42	17429.00	17950.84	35379.84	21786.00	26926.26	48712.26
	Benefits	1450.02	2979.84	4429.86	5728.78	5839.63	11568.41	7178.80	8819.47	15998.27
	Equipment	0.00	0.00	0.00	28600.00	0.00	0.00			
	Supplies	21809.00	0.00	21809.00	0.00	0.00	0.00			
	Travel	2881.00	2881.00	5762.00	0.00	0.00	0.00			
	Publication	0.00	0.00	0.00	0.00	0.00	0.00			
	Other	7750.50	1801.50	9552.00	0.00	0.00	0.00			
	Total direct	38247.52	16637.76	54885.28	51757.78	23790.47	75548.25	90005.30	40428.23	130433.53
	Indirect	3824.75	1663.78	5488.53	0.00	0.00	0.00	3824.75	1663.78	5488.53
	Total costs	42072.27	18301.54	60373.81	51757.78	23790.47	75548.25	93830.05	42092.01	135922.06

## **Attachment 6**

### **Notice of Award (NOA) and any additional documents**

The following pages include the NOA and if applicable any additional documentation referenced throughout this Subaward.

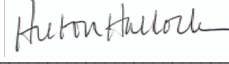
Not incorporating the NOA or any additional documentation to this Subaward.

**FDP Cost Reimbursement Subaward**

<b>Federal Awarding Agency:</b> Other [Type in Agency]		National Oceanic Atmospheric Administration (NOAA)
<b>Pass-Through Entity (PTE):</b> <b>University of Alaska Fairbanks</b>		<b>Subrecipient:</b> <b>Alaska Pacific University</b>
PTE PI: <b>Ginny Eckert</b>		Sub PI: <b>Nathan Wolf</b>
PTE Federal Award No: <b>NA24OARX417C0027</b>		Subaward No: <b>UAF 25-0003</b>
Project Title: <b>R/2024-05 Development of a Non-Lethal Genetic-Based Method for Aging Pacific Halibut</b>		
Subaward Budget Period: Start: <b>02/01/2024</b> End: <b>01/31/2025</b>		Amount Funded This Action (USD): \$ <b>50,868.00</b>
Estimated Period of Performance: Start: <b>02/01/2024</b> End: <b>01/31/2026</b>		Incrementally Estimated Total (USD): \$ <b>93,904.00</b>

**Terms and Conditions**

- PTE hereby awards a cost reimbursable subaward, (as determined by 2 CFR 200.331), to Subrecipient. The Statement of Work and budget for this Subaward are as shown in Attachment 5. In its performance of Subaward work, Subrecipient shall be an independent entity and not an employee or agent of PTE.
- Subrecipient shall submit invoices not more often than monthly and not less frequently than quarterly for allowable costs incurred. Upon the receipt of proper invoices, the PTE agrees to process payments in accordance with this Subaward and 2 CFR 200.305. All invoices shall be submitted using Subrecipient's standard invoice, but at a minimum shall include current and cumulative costs (including cost sharing), breakdown by major cost category, Subaward number, and certification, as required in 2 CFR 200.415(a). Invoices that do not reference PTE Subaward number shall be returned to Subrecipient. Invoices and questions concerning invoice receipt or payments shall be directed to the party's **Financial** Contact, shown in Attachment 3A.
- A final statement of cumulative costs incurred, including cost sharing, marked "FINAL" must be submitted to PTE's **Financial** Contact, as shown in Attachment 3A, not later than **60 days** after **the final Budget Period end date**. The final statement of costs shall constitute Subrecipient's final financial report.
- All payments shall be considered provisional and are subject to adjustment within the total estimated cost in the event such adjustment is necessary as a result of an adverse audit finding against the Subrecipient.
- Matters concerning the technical performance of this Subaward shall be directed to the appropriate party's Principal Investigator as shown in Attachments 3A and 3B. Technical reports are required as shown in Attachment 4.
- Matters concerning the request or negotiation of any changes in the terms, conditions, or amounts cited in this Subaward, and any changes requiring prior approval, shall be directed to the PTE's **Authorized Official** Contact and the Subrecipient's **Authorized Official** Contact shown in Attachments 3A and 3B. Any such change made to this Subaward requires the written approval of each party's Authorized Official as shown in Attachments 3A and 3B.
- The PTE may issue non-substantive changes to the Budget Period(s) and Budget **Bilaterally**. Unilateral modification shall be considered valid 14 days after receipt unless otherwise indicated by Subrecipient when sent to Subrecipient's **Authorized Official** Contact, as shown in Attachment 3B.
- Each party shall be responsible for its negligent acts or omissions and the negligent acts or omissions of its employees, officers, or directors, to the extent allowed by law.
- Either party may terminate this Subaward with 30 days written notice. Notwithstanding, if the Awarding Agency terminates the Federal Award, PTE will terminate in accordance with Awarding Agency requirements. PTE notice shall be directed to the **Authorized Official** Contact, and Subrecipient notice shall be directed to the **Authorized Official** Contact as shown in Attachments 3A and 3B. PTE shall pay Subrecipient for termination costs as allowable under Uniform Guidance, 2 CFR 200, or 45 CFR Part 75 Appendix IX, as applicable
- By signing this Subaward, including the attachments hereto which are hereby incorporated by reference, Subrecipient certifies that it will perform the Statement of Work in accordance with the terms and conditions of this Subaward and the applicable terms of the Federal Award, including the appropriate Research Terms and Conditions ("RTCs") of the Federal Awarding Agency, as referenced in Attachment 2. The parties further agree that they intend this subaward to comply with all applicable laws, regulations, and requirements.

By an Authorized Official of the PTE: DocuSigned by: <b>Kimberly Cox</b> Name: <b>Kim Cox</b> Date: <b>August 16, 2024</b> Title: <b>Director, OGCA</b>		By an Authorized Official of the Subrecipient:  Name: <b>Hilton Hallock</b> Date: <b>08/14/2024</b> Title: <b>Provost</b>	
---------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

## Attachment 1

### Certifications and Assurances

Subaward Number:

UAF 25-0003

**Certification Regarding Lobbying (2 CFR 200.450)**

By signing this Subaward, the Subrecipient Authorized Official certifies, to the best of his/her knowledge and belief, that no Federal appropriated funds have been paid or will be paid, by or on behalf of the Subrecipient, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement in accordance with 2 CFR 200.450.

If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or intending to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the Subrecipient shall complete and submit Standard Form -LLL, "Disclosure Form to Report Lobbying," to the PTE.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

---

**Debarment, Suspension, and Other Responsibility Matters (2 CFR 200.214 and 2 CFR 180)**

By signing this Subaward, the Subrecipient Authorized Official certifies, to the best of his/her knowledge and belief that neither the Subrecipient nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any federal department or agency, in accordance with 2 CFR 200.214 and 2 CFR 180.

---

**Audit and Access to Records**

Subrecipient certifies that it will provide PTE with notice of any adverse findings which impact this Subaward. Subrecipient certifies compliance with applicable provisions of 2 CFR 200.501-200.521. If Subrecipient is not required to have a Single Audit as defined by 200.501, Awarding Agency requirements, or the Single Audit Act, then Subrecipient will provide notice of the completion of any required audits and will provide access to such audits upon request. Subrecipient will provide access to records as required by parts 2 CFR 200.332 (a)(5), 200.337, and 200.338 as applicable.

---

**Program for Enhancement of Contractor Employee Protections (41 U.S.C 4712)**

Subrecipient is hereby notified that they are required to: inform their employees working on any federal award that they are subject to the whistleblower rights and remedies of the program; inform their employees in writing of employee whistleblower protections under 41 U.S.C §4712 in the predominant native language of the workforce; and include such requirements in any agreement made with a subcontractor or subgrantee.

---

The Subrecipient shall require that the language of the certifications above in this Attachment 1 be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

---

**Use of Name**

Neither party shall use the other party's name, trademarks, or other logos in any publicity, advertising, or news release without the prior written approval of an authorized representative of that party. The parties agree that each party may use factual information regarding the existence and purpose of the relationship that is the subject of this Subaward for legitimate business purposes, to satisfy any reporting and funding obligations, or as required by applicable law or regulation without written permission from the other party. In any such statement, the relationship of the parties shall be accurately and appropriately described.

---

**Prohibition on Certain Telecommunication and Video Surveillance Services or Equipment**

Pursuant to 2 CFR 200.216, Subrecipient will not obligate or expend funds received under this Subaward to: (1) procure or obtain; (2) extend or renew a contract to procure or obtain; or (3) enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services (as described in Public Law 115-232, section 889) as a substantial or essential component of any system, or as a critical technology as part of any system.

## Attachment 2

### Federal Award Terms and Conditions

Subaward Number

UAF 25-0003

**Required Data Elements**

The data elements required by Uniform  
Guidance are incorporated in the attached Federal Award.

Awarding Agency Institute (If Applicable)

National Oceanic Atmospheric Administration (NOAA)

Federal Award Issue Date      FAIN      Assistance Listing No.

		11.417
--	--	--------

Assistance Listing Program Title (ALPT)

--

Key Personnel Per NOA

Ginny Eckert
--------------

**This Subaward Is:**

☒ Research & Development      ☒ Subject to FFATA

**General Terms and Conditions**

By signing this Subaward, Subrecipient agrees to the following:

1. To abide by the conditions on activities and restrictions on expenditure of federal funds in appropriations acts that are applicable to this Subaward to the extent those restrictions are pertinent. This includes any recent legislation noted on the Federal Awarding Agency's website:

https://www.nsf.gov/awards/managing/rtc.jsp
---------------------------------------------

2. 2 CFR 200

3. The Federal Awarding Agency's grants policy guidance, including addenda in effect as of the beginning date of the period of performance or as amended found at:

https://www.nsf.gov/awards/managing/rtc.jsp
---------------------------------------------

4. Applicable Research Terms and Conditions, including any Federal Awarding Agency's Specific Requirements found at:

https://www.nsf.gov/awards/managing/rtc.jsp	except for the following :
---------------------------------------------	----------------------------

- a. No-cost extensions require the written approval of the PTE. Any requests for a no-cost extension shall be directed to the 



 Contact shown in Attachment 3A, not less than 30 days prior to the desired effective date of the requested change.
- b. Any payment mechanisms and financial reporting requirements described in the applicable Federal Awarding Agency Terms and Conditions and Agency-Specific Requirements are replaced with Terms and Conditions (1) through (4) of this Subaward; and
- c. Any prior approvals are to be sought from the PTE and not the Federal Awarding Agency.
- d. Title to equipment as defined in 2 CFR 200.1 that is purchased or fabricated with research funds or Subrecipient cost sharing funds, as direct costs of the project or program, shall vest in the Subrecipient subject to the conditions specified in 2 CFR 200.313.
- e. Prior approval must be sought for a change in Subrecipient PI or change in Key Personnel (defined as listed on the NOA).

5. Treatment of program income:

**Special Terms and Conditions:****Data Sharing and Access:**

Subrecipient agrees to comply with the Federal Awarding Agency's data sharing and/or access requirements as reflected in the NOA or the Federal Awarding Agency's standard terms and conditions as referenced in General Terms and Conditions 1-4 above.

No additional requirements
----------------------------

**Data Rights:**

Subrecipient grants to PTE the right to use data created in the performance of this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its PTE Federal Award.

**Copyrights:**

to PTE an irrevocable, royalty-free, non-transferable, non-exclusive right and license to use, reproduce, make derivative works, display, and perform publicly any copyrights or copyrighted material (including any computer software and its documentation and/or databases) first developed and delivered under this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its PTE Federal Award.

Subrecipient grants to PTE the right to use any written progress reports and deliverables created under this Subaward solely for the purpose of and only to the extent required to meet PTE's obligations to the Federal Government under its Federal Award.

**Promoting Objectivity in Research (COI):**

Subrecipient must designate herein which entity's Financial Conflicts of Interest policy (COI) will apply:

If applying its own COI policy, by execution of this Subaward, Subrecipient certifies that its policy complies with the requirements of the relevant Federal Awarding Agency as identified herein:

Subrecipient shall report any financial conflict of interest to PTE's Administrative Representative or COI contact, as designated on Attachment 3A. Any financial conflicts of interest identified shall, when applicable, subsequently be reported to Federal Awarding Agency. Such report shall be made before expenditure of funds authorized in this Subaward and within 45 days of any subsequently identified COI.

**Work Involving Human or Vertebrate Animals** (Select Applicable Options)

☒ No Human or Vertebrate Animals

This section left intentionally blank.

**Human Subjects Data** (Select One)

Not Applicable

This section left intentionally blank

This section left intentionally blank

**Additional Terms**

**Attachment 3A**  
**Pass-Through Entity (PTE) Contacts**

Subaward Number:

UAF 25-0003

**PTE Information**

Entity Name: University of Alaska Fairbanks

Legal Address: University of Alaska Fairbanks  
2145 North Tanana Loop  
008 West Ridge Research Building  
Fairbanks, AK 99775-7880

Website: www.uaf.edu/ogca/

**PTE Contacts**

Central Email: uaf-ogca@alaska.edu

Principal Investigator Name: Ginny Eckert

Email: gleckert@alaska.edu

Telephone Number: 907-796-5450

Administrative Contact Name: Mandy Toong

Email: mstoong@alaska.edu

Telephone Number: 907-474-5453

COI Contact email (if different to above): uaf-ori@alaska.edu

Financial Contact Name: Mandy Toong

Email: mstoong@alaska.edu

Telephone Number: 907-474-5453

Email invoices? ☒ Yes ☐ No Invoice email (if different): uaf-ofa-ap@alaska.edu

Authorized Official Name: Kim Cox

Email: uaf-ogca@alaska.edu

Telephone Number: 907-474-7301

**PI Address:**University of Alaska Fairbanks  
17101 Point Lena Loop Road  
Juneau, AK 99801**Administrative Address:**Signers' Business Office  
PO Box 757580  
Fairbanks, AK 99775**Invoice Address:**University of Alaska Fairbanks  
Accounts Payable  
PO Box 757920  
Fairbanks, AK 99775-7920

**Attachment 3B****Subrecipient Contacts**

Subaward Number:

UAF 25-0003

**Subrecipient Information for [FFATA](#) reporting**

Entity's UEI Name: Alaska Pacific University

EIN No.: 92-0023588

Institution Type: Private Institution of Higher Education

UEI: GMQQTDP MJJA7

Currently registered in SAM.gov: ☒ Yes ☐ NoExempt from reporting executive compensation: ☒ Yes ☐ No (if no, complete 3Bpg2)

Parent UEI:

This section for U.S. Entities:

Zip Code [Look-up](#)

Place of Performance Address

Congressional District: AK-001

Zip Code+4: 99508-4625

Alaska Pacific University  
4101 University Drive  
Anchorage, AK 99508-4625**Subrecipient Contacts**

Central Email:

Website:

www.alaskapacific.edu

Principal Investigator Name: Nathan Wolf

Email: nwolf@alaskapacific.edu

Telephone Number: 907-564-8207

Administrative Contact Name: Sami Glascott

Email: sglascott@alaskapacific.edu

Telephone Number: 907-564-8884

Financial Contact Name: Brenda Fahlsing

Email: grantaccountant@alaskapacific.edu

Telephone Number: 907-564-8307

Invoice Email:

Authorized Official Name: Hilton Hallock

Email: hhallock@alaskapacific.edu

Telephone Number: 907-564-8358

**Legal Address:**Alaska Pacific University  
4101 University Drive  
Anchorage, AK 99508-4625**Administrative Address:**Alaska Pacific University  
4101 University Drive  
Anchorage, AK 99508-4625**Payment Address:**Alaska Pacific University  
4101 University Drive  
Anchorage, AK 99508-4625

Attachment 3B-2  
Highest Compensated Officers

Subaward Number:  
UAF 25-0003

Subrecipient:

Institution Name: Alaska Pacific University

PI Name: Nathan Wolf

Highest Compensated Officers

The names and total compensation of the five most highly compensated officers of the entity(ies) must be listed if the entity in the preceding fiscal year received 80 percent or more of its annual gross revenues in Federal awards; and \$25,000,000 or more in annual gross revenues from Federal awards; and the public does not have access to this information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. §§ 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. See FFATA § 2(b)(1) Internal Revenue Code of 1986.

Officer 1 Name:

Officer 1 Compensation:

Officer 2 Name:

Officer 2 Compensation:

Officer 3 Name:

Officer 3 Compensation:

Officer 4 Name:

Officer 4 Compensation:

Officer 5 Name:

Officer 5 Compensation:

## Attachment 4

### Reporting and Prior Approval Terms

Subaward Number:

UAF 25-0003

Subrecipient agrees to submit the following reports (PTE contacts are identified in Attachment 3A):

#### Technical Reports:

- ☐ Monthly technical/progress reports will be submitted to the PTE's Administrative Contact within 15 days of the end of the month.
- ☐ Quarterly technical/progress reports will be submitted within 30 days after the end of each project quarter to the PTE's Administrative Contact.
- ☒ Annual technical / progress reports will be submitted within 30 days prior to the end of each budget period to the PTE's Administrative Contact. Such report shall also include a detailed budget for the next Budget Period, updated other support for key personnel, certification of appropriate education in the conduct of human subject research of any new key personnel, and annual IRB or IACUC approval, if applicable.
- ☒ A Final technical/progress report will be submitted to the PTE's Administrative Contact within 90 days of the end of the Project Period or after termination of this award, whichever comes first.
- ☐ Technical/progress reports on the project as may be required by PTE's Administrative Contact in order for the PTE to satisfy its reporting obligations to the Federal Awarding Agency.

#### Prior Approvals:

Carryover:

Carryover is automatic

#### Other Reports:

- ☐ In accordance with 37 CFR 401.14, Subrecipient agrees to notify both the Federal Awarding Agency via designated portal and PTE's Administrative Contact within 60 days after Subrecipient's inventor discloses invention(s) in writing to Subrecipient's personnel responsible for patent matters. The Subrecipient will submit a final invention report using Federal Awarding Agency specific forms to the PTE's Administrative Contact within 60 days of the end of the Project Period to be included as part of the PTE's final invention report to the Federal Awarding Agency.

A negative report is required:

- ☐ Property Inventory Report (only when required by Federal Awarding Agency), specific requirements below.

Additional cost sharing requirements included below:

#### Additional Technical and Reporting Requirements:

Frequency: Performance reports are due on a semi-annual basis unless otherwise specified in a specific award condition, no later than 30 days following the end of each six (6) month period from the start date of the original award.

The last semi-annual performance report is required.

The final report, which summarizes activities conducted during the entire award, must be submitted within 120 days following the period of performance end date. Subrecipients must submit final reports to the pass-through entity, no later than 90 days after the period of performance end date

Attachment 5  
Statement of Work, Cost Sharing, Indirects & Budget

Subaward Number:  
UAF 25-0003

Statement of Work

☐ Below ☒ Attached, 1 pages

If award is FFATA eligible and SOW exceeds 4000 characters, include a Subrecipient Federal Award Project Description

Budget Information

Indirect Information	Indirect Cost Rate (IDC) Applied	42 %	Cost Sharing	Yes
Rate Type:	Modified Total Direct Costs		If Yes, include Amount: \$	32,909.00

Budget Details ☐ Below ☒ Attached, 23 pages

Budget Totals

Direct Costs	\$	48,267.00
Indirect Costs	\$	2,601.00
Total Costs	\$	50,868.00

All amounts are in United States Dollars

## **Attachment 6**

### **Notice of Award (NOA) and any additional documents**



The following pages include the NOA and if applicable any additional documentation referenced throughout this Subaward.



Not incorporating the NOA or any additional documentation to this Subaward.

**Statement of Work:** Development of a non-lethal genetic-based method for aging Pacific halibut

Robust methods to estimate the ages of commercially exploited fish species are critical for reliable stock assessment. Further, when combined with data on other biological characteristics, such as length/weight, maturity, movement, and distribution, the age distribution or age structure of a fish population provides essential information on population dynamics related to age, predicted reproductive status, life history stage, etc. For many managed groundfish species, such as Pacific halibut, age has been traditionally estimated by manually counting the number of annuli or concentric lamellae present in sagittal otoliths under a compound microscope. Although these otolith-based methods for aging Pacific halibut are accurate, they have several shortcomings. First, they cannot be used in fish that are not sacrificed, given that the otolith is a terminal (i.e., lethal) sample. Second, otolith-based aging techniques require considerable manual processing and analysis of stored otoliths by trained personnel (i.e., age readers) that have been increasingly difficult to recruit and maintain. Third, otolith-based aging methods cannot be automated in a high-throughput manner to improve processing time and efficiency and to reduce potential human error and overall cost. Given these challenges, alternative methods to microscopic age estimations are being developed and applied in fisheries. This project proposes developing a non-lethal genomic DNA methylation (DNAm) age estimation method for Pacific halibut based on the generation of a high-resolution DNA methylation map and leveraging both the recently sequenced Pacific halibut genome and the IPHC's extensive known-age genetic sample collection.

Specific project objectives will include 1) identifying DNA methylation signals in Pacific halibut fin tissue, 2) developing an age prediction model based on DNA methylation patterns: an epigenetic clock for Pacific halibut, and 3) developing a targeted DNA methylation assay for larger scale age estimations. Corresponding proposed deliverables will include 1) a reduced representation genome-wide map of DNA methylation at single base-pair resolution for Pacific halibut fin tissue, 2) an age predicting model for Pacific halibut using fin tissue and information on potential functional significance for model-selected age markers, and 3) a cost-effective, high-throughput multiplex PCR assay for age estimations for Pacific halibut.

Additionally, this project will support an MS student. The student will be jointly supervised by Dr. Nathan Wolf at Alaska Pacific University (APU) and by Dr. Josep Planas at the IPHC (also affiliate faculty at APU). Further, this project will promote the engagement of Alaskan coastal communities in improving our understanding of the age structure of harvested Pacific halibut through their participation in the collection and archiving of genetic samples (i.e., fin clips) for the developed aging method. A genetic sample collection kit will be produced, and Alaskan native coastal communities utilizing the Pacific halibut resource (e.g., St. Paul Is., St. Lawrence Is., Nome, etc.), as well as coastal communities with recreational fishing, will be invited to participate in genetic sample collections. For those communities that express interest, a brief Zoom presentation by project PIs will be given to describe the importance and objectives of the project and to review the protocol for sample collection, drying and storage. Upon completion of the project, each participating coastal community will receive a written report on the results and will be invited to a Zoom presentation by project PIs describing the process involved in data generation from the samples provided.

PROJECT TITLE:		Development of a non-lethal genetic-based method for aging Pacific halibut																			
PI:	Nathan Wolf	TOTAL REQUEST BUDGET:		\$93,904		APU Request		\$33,530		IPHC Request		\$60,374		APU Match		\$19,503		IPHC Match		\$46,949	
START:	2/1/2024	TOTAL MATCH BUDGET:		\$66,452																	
END:	1/31/2026	TOTAL PROJECT BUDGET:		\$160,356																	
DEPT #:	ASG 23-489	MATCH PERCENTAGE:		71%																	
BANNER S/G #:	N/A																				
				FY23		FY24		END		FY23		FY24		END		FY23		FY24		END	
				2/1/2024		2/1/2025		1/31/2026		2/1/2024		2/1/2025		1/31/2026		2/1/2024		2/1/2025		1/31/2026	
				Year 1		Year 2		APU Request Total		Year 1		Year 2		IPHC Request Total		Year 1		Year 2		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours		Hours		IPHC Request Total		Hours		Hours		APU Match Total	
				Hours		Hours		APU Request Total		Hours											

National Oceanic and Atmospheric Administration (NOAA)  
Form 90-4 (Adapted)  
Project Status: **New**  
SG Program: **NS**  
Project Title: **Development of a Non-Lethal Genetic-Based Method for Aging Pacific Halibut**  
PI: **Clinty Eckert**  
Institution: **University of Alaska Fairbanks**

Project Number: **9/2024-05**  
Project Period: **2/1/2024** to **1/31/2026**

Use buttons below to add or remove additional years

Use buttons below to add or remove extra rows to Fringe and Other

YEAR 1				YEAR 2				YEAR 3				YEAR 4				TOTAL		
No. of Personnel	Months of Effort	Sea Grant (Federal) Funds	Matching Funds	No. of Personnel	Months of Effort	Sea Grant (Federal) Funds	Matching Funds	No. of Personnel	Months of Effort	Sea Grant (Federal) Funds	Matching Funds	No. of Personnel	Months of Effort	Sea Grant (Federal) Funds	Matching Funds	Months of Effort	Sea Grant (Federal) Funds	Matching Funds
<b>A. Salaries &amp; Wages</b>																		
1) Senior Personnel																		
a. (Co) Principal Investigator(s)																		
0	0.00	-	-	0	0.00	-	-										-	-
b. Associate (Faculty or Staff)																		
2) Other Personnel																		
a. Professionals																		
0	0.00	-	-	0	0.00	-	-										-	-
b. Research Associates																		
c. Research Asst. Grad Students																		
d. Prof. School Students																		
e. Pre-Bac Students																		
f. Secretarial-Clerical																		
g. Technical Shop																		
h. Misc.																		
Total Salaries & Wages (A1a-A2h)																		
<b>B. Fringe Benefits</b>																		
1) notes																		
2) notes																		
3) notes																		
Total Fringe Benefits																		
<b>Total Salaries &amp; Fringe Benefits</b>																		
<b>C. Permanent Equipment</b>																		
<b>D. Expendable Supplies</b>																		
<b>E. Travel</b>																		
1) Domestic U.S. (Inc. Puerto Rico)																		
2) Foreign																		
Total Travel																		
<b>F. Publication &amp; Documentation Costs</b>																		
<b>G. Other Costs - the examples provided can be changed</b>																		
1) OTHER - Subaward to Alaska Pacific University																		
2)																		
3)																		
4)																		
5)																		
6)																		
7)																		
8)																		
Total Other Costs																		
<b>Total Direct Costs</b>																		
<b>MODIFIED Direct Costs - used for calculating indirect</b>																		
<b>H. Indirect Costs - calculated from %*Modified Direct, but you can overwrite</b>																		
1) On: Sponsored Research 55 %																		
2) Off:																		
3) other:																		
<b>Total Indirect Costs</b>																		
<b>Total Cost - (Total Direct) + (Total Indirect)</b>																		

National Oceanic and Atmospheric Administration (NOAA)

Adapted from OMB Control No: 0648-0362 Exp 04/30/2024

Form 90-4 (Adapted)

Project Status: **New**

SG Program: **AK**

Project Title: **Development of a Non-Lethal Genetic-Based Method for Aging Pacific Halibut**

PI: **Nathan Wolf**

Institution: **Alaska Pacific University**

Project Number: **R/2024-05**

from to

Project Period: **2/1/24** **1/31/26**

Use buttons below to add or remove additional years

Use button below to add or remove extra rows to Fringe and Other

YEAR 1					YEAR 2				TOTAL		
	No. of Personnel	Months of Effort	Sea Grant (Federal) Funds	Matching Funds	No. of Personnel	Months of Effort	Sea Grant (Federal) Funds	Matching Funds	Months of Effort	Sea Grant (Federal) Funds	Matching Funds
<b>A. Salaries &amp; Wages</b>											
1) Senior Personnel											
a. (Co) Principal Investigator(s)	1	1.25	2,243	8,972	1	1.50	4,486	8,972	2.75	6,729	17,944
b. Associate (Faculty or Staff)										-	-
2) Other Personnel											
a. Professionals	0	0.00	-	-	0	0.00	-	-		-	-
b. Research Associates										-	-
c. Research Asst. Grad Students										-	-
d. Prof. School Students										-	-
e. Pre-Bac Students										-	-
f. Secretarial-Clerical										-	-
g. Technical-Shop										-	-
h. Misc.										-	-
Total Salaries & Wages (A1a-A2h)	1	1.25	2,243	8,972	1	1.50	4,486	8,972	#VALUE!	6,729	17,944
<b>B. Fringe Benefits</b>											
1) notes	Negotiated Fringe Benefits	8.69	%	195	779		390	780		585	1,559
2) notes			%							-	-
3) notes			%							-	-
Total Fringe Benefits				195	779		390	780		585	1,559
Total Salaries & Fringe Benefits			2,438	9,751			4,876	9,752		7,314	19,503
<b>C. Permanent Equipment</b>											
			-	-			-	-		-	-
<b>D. Expendable Supplies</b>											
			2,100	-			300	-		2,400	-
<b>E. Travel</b>											
1) Domestic U.S. (Inc. Puerto Rico)			1,306	-			7,893	-		9,199	-
2) Foreign			-	-			-	-		-	-
Total Travel			1,306	-			7,893	-		9,199	-
<b>F. Publication &amp; Documentation Costs</b>											
			-	-			4,000	-		4,000	-
<b>G. Other Costs</b> - the examples provided can be changed											
1)	OTHER - Subaward to International Pacific Halibut Commission		42,073	23,158			18,301	23,791		60,374	46,949
2)	OTHER - Conference Registration		350				350			700	-
3)										-	-
4)										-	-
5)										-	-
6)										-	-
7)										-	-
8)			-	-			-	-		-	-
Total Other Costs			42,423	23,158			18,651	23,791		61,074	46,949
Total Direct Costs			48,267	32,909			35,720	33,543		83,987	66,452
<b>MODIFIED Direct Costs</b> - used for calculating indirect											
			6,194	-			17,419	-		23,613	-
<b>H. Indirect Costs</b> - calculated from %*Modified Direct, but you can overwrite											
1) On:	Sponsored Research	42	%	2,601	-		7,316	-		9,917	-
2) Off:			-	-			-	-		-	-
3) other:			-	-			-	-		-	-
Total Indirect Costs			2,601	-			7,316	-		9,917	-
Total Cost - (Total Direct) + (Total Indirect)			50,868	32,909			43,036	33,543		93,904	66,452

National Oceanic and Atmospheric Administration (NOAA)

Adapted from OMB Control No: 0648-0362 Exp 04/30/2024

Use buttons below to add or remove additional years

Form 90-4 (Adapted)

Project Status: **New**

Project Number: **R/2024-05**

SG Program: **AK**

Project Title: **Development of a Non-Lethal Genetic-Based Method for Aging Pacific Halibut**

Project Period: **2/1/24** to **1/31/26**

PI: **Josep Planas**

Institution: **International Pacific Halibut Commission**

Use button below to add or remove extra rows to Fringe and Other

	YEAR 1				YEAR 2				TOTAL		
	No. of Personnel	Months of Effort	Sea Grant (Federal) Funds	Matching Funds	No. of Personnel	Months of Effort	Sea Grant (Federal) Funds	Matching Funds	Months of Effort	Sea Grant (Federal) Funds	Matching Funds
<b>A. Salaries &amp; Wages</b>											
1) Senior Personnel											
a. (Co) Principal Investigator(s)	1	1.25	4,357	11,664	1	1.50	8,975	12,014	2.75	13,332	23,678
b. Associate (Faculty or Staff)										-	-
2) Other Personnel											
a. Professionals	1	1.00	-	5,765	1	1.00	-	5,937	2.00	-	11,702
b. Research Associates										-	-
c. Research Asst. Grad Students										-	-
d. Prof. School Students										-	-
e. Pre-Bac Students										-	-
f. Secretarial-Clerical										-	-
g. Technical-Shop										-	-
h. Misc.										-	-
<b>Total Salaries &amp; Wages (A1a-A2h)</b>	2	2.25	4,357	17,429	2	2.50	8,975	17,951	#VALUE!	13,332	35,380
<b>B. Fringe Benefits</b>											
1) notes <b>Negotiated Fringe Benefits - Planas</b>	33.2	%	1,450	3,873			2,980	3,869		4,430	7,742
2) notes <b>Negotiated Fringe Benefits - Jasonowicz</b>	33.2	%		1,856				1,971		-	3,827
3) notes		%								-	-
<b>Total Fringe Benefits</b>			1,450	5,729			2,980	5,840		4,430	11,569
<b>Total Salaries &amp; Fringe Benefits</b>			5,807	23,158			11,955	23,791		17,762	46,949
<b>C. Permanent Equipment</b>			-	-			-	-		-	-
<b>D. Expendable Supplies</b>			21,809	-			-	-		21,809	-
<b>E. Travel</b>											
1) Domestic U.S. (Inc. Puerto Rico)			2,881	-			2,881	-		5,762	-
2) Foreign			-	-			-	-		-	-
<b>Total Travel</b>			2,881	-			2,881	-		5,762	-
<b>F. Publication &amp; Documentation Costs</b>			-	-			-	-		-	-
<b>G. Other Costs</b> - the examples provided can be changed											
1) <b>OTHER - Genome Sequencing</b>			5,949	-			-	-		5,949	-
2) <b>OTHER - Cloud Computing</b>			1,802				1,801			3,603	-
3)										-	-
4)										-	-
5)										-	-
6)										-	-
7)										-	-
8)			-	-			-	-		-	-
<b>Total Other Costs</b>			7,751	-			1,801	-		9,552	-
<b>Total Direct Costs</b>			38,248	23,158			16,637	23,791		54,885	46,949
<b>MODIFIED Direct Costs</b> - used for calculating indirect			38,248	-			16,637	-		54,885	-
<b>H. Indirect Costs</b> - calculated from %*Modified Direct, but you can overwrite											
1) On: <b>Sponsored Research</b>	10	%	3,825	-			1,664	-		5,489	-
2) Off:		%	-	-			-	-		-	-
3) other:		%	-	-			-	-		-	-
<b>Total Indirect Costs</b>			3,825	-			1,664	-		5,489	-
<b>Total Cost - (Total Direct) + (Total Indirect)</b>			42,073	23,158			18,301	23,791		60,374	46,949

Budget Justification Attachment

Page 770

R/2024-05 DEVELOPMENT OF A NON-LETHAL GENETIC-BASED METHOD FOR  
AGING PACIFIC HALIBUT  
REQUESTED FUNDS BUDGET NARRATIVE

Personnel

YEAR 1 PERSONNEL Year 1 Total \$ 0

Position Title & Name	Yearly Salary	% of Time	No. of Months	\$Amount
Principal Investigator, Ginny Eckert	\$196,773	0%	0.00 mos.	\$0

YEAR 2 PERSONNEL Year 2 Total \$ 0

Position Title & Name	Yearly Salary	% of Time	No. of Months	\$Amount
Principal Investigator, Ginny Eckert	\$201,693	0%	0.00 mos.	\$0

PROJECT TOTAL PERSONNEL Project Total \$ 0

Principal Investigator – Ginny Eckert: This position will provide program planning and supervision. This position relates to all program objectives. No funding is requested in Years 1-4 for the time PI Eckert spends administering this project. PI Eckert's total project support is 0 hours (0.00 mos.) effort for a total project support of \$0.

Salaries above are listed at the FY24 rate and include a leave reserve of 20.6% for non-union faculty. Salaries also include a 2.5% annual inflation increase.

Fringe Benefits

YEAR 1 FRINGE BENEFITS Year 1 Total \$ 0

Position Title & Name	Yearly Salary	% Rate	\$ Amount
Principal Investigator, Ginny Eckert	\$196,773	25.1%	\$0

YEAR 2 FRINGE BENEFITS Year 2 Total \$ 0

Position Title & Name	Yearly Salary	% Rate	\$ Amount
Principal Investigator, Ginny Eckert	\$201,693	25.1%	\$0

PROJECT TOTAL FRINGE BENEFITS Project Total \$ 0

Staff benefits are applied according to UAF's FY24 fixed fringe benefit rates at the rate of 25.1% for non-union faculty. A copy of the rate agreement is available at <http://www.alaska.edu/cost-analysis/negotiation-agreements/>.

Travel

TRAVEL
 Total
 \$ 0

Travel costs are not requested for this project.

Equipment

EQUIPMENT
 Total
 \$ 0

Equipment costs are not requested for this project.

Supplies

SUPPLIES
 Total
 \$ 0

Supplies costs are not requested for this project.

Contractual

CONTRACTUAL
 Total
 \$ 0

Contractual costs are not requested for this project.

Construction

CONSTRUCTION
 Total
 \$ 0

Construction costs are not requested for this project.

Other

YEAR 1 OTHER
 Year 1 Total
 \$ 64,618

\$64,618 in Year 1 is requested for a subaward to Alaska Pacific University for Nathan Wolf to direct the overall operation of the project and will work with co-PI, Josep Planas, on project coordination, administration, reporting and publication, and co-supervision of the graduate student. This position is responsible for overseeing coordination with other agencies and is the responsible authority for ensuring necessary reports/documentation are submitted to UAF Sea Grant. This position relates to all program objectives.

YEAR 2 OTHER
 Year 2 Total
 \$ 43,036

\$43,036 in Year 2 is requested for a subaward to Alaska Pacific University for Nathan Wolf to direct the overall operation of the project and will work with co-PI, Josep Planas, on project coordination, administration, reporting and publication, and co-supervision of the

graduate student. This position is responsible for overseeing coordination with other agencies and is the responsible authority for ensuring necessary reports/documentation are submitted to UAF Sea Grant. This position relates to all program objectives.

PROJECT TOTAL OTHER

Project Total

\$ 107,654

Total Direct Charges

Year 1 Total

\$ 50,868

A. Personnel

\$0

B. Fringe Benefits

\$0

C. Travel

\$0

D. Equipment

\$0

E. Supplies

\$0

F. Contractual

\$0

G. Construction

\$0

H. Other

\$50,868

Year 1 Direct Costs

\$50,868

Year 2 Total

\$ 43,036

A. Personnel

\$0

B. Fringe Benefits

\$0

C. Travel

\$0

D. Equipment

\$0

E. Supplies

\$0

F. Contractual

\$0

G. Construction

\$0

H. Other

\$43,036

Year 2 Direct Costs

\$43,036

Project Total

\$ 93,904

A. Personnel

\$0

B. Fringe Benefits

\$0

C. Travel

\$0

D. Equipment

\$0

E. Supplies

\$0

F. Contractual

\$0

G. Construction

\$0

H. Other

\$93,904

Project Total Direct Costs

\$93,904

Indirect Charges

YEAR 1 INDIRECT COSTS

Year 1 Total

\$ 13,750

The predetermined rate is 55% and is computed on the following Year 1 Modified Total Direct Costs base \$25,000.

Personnel  
Fringe  
Travel  
Supplies  
Other  
Total

Multiplied by Indirect Cost Rate

55%

YEAR 2 INDIRECT COSTS
 Year 2 Total
 \$ 0

The predetermined rate is 55% and is computed on the following Year 2 Modified Total Direct Costs base \$0.

Personnel  
 Fringe  
 Travel  
 Supplies  
 Other  
**Total**

Multiplied by Indirect Cost Rate
 55%

PROJECT TOTAL INDIRECT COSTS
 Project Total
 \$ 13,750

The predetermined rate is 55% and is computed on the following Project Total Modified Total Direct Cost base \$25,000.

Personnel  
 Fringe  
 Travel  
 Supplies  
 Other  
**Total**

Multiplied by Indirect Cost Rate
 55%

Facilities and Administrative (F&A) Costs are negotiated with the Office of Naval Research. The rate for sponsored research at UAF is calculated at 55.0% (FY23-FY26 predetermined agreement) of Modified Total Direct Costs (MTDC). MTDC includes Total Direct Costs minus tuition and associated fees, scholarships, participant support costs, rental/lease costs, subaward amounts over \$25,000, and equipment. A copy of the rate agreement is available at: <http://www.alaska.edu/cost-analysis/negotiation-agreements/>.

**Total Indirect Costs**
**\$13,750**

**Totals – Requested Funds Direct and Indirect Charges**

Year 1 = \$64,618  
 Year 2 = \$43,036  
 Project Total = \$107,654

R/2024-05 DEVELOPMENT OF A NON-LETHAL GENETIC-BASED METHOD FOR  
AGING PACIFIC HALIBUT  
MATCHING FUNDS BUDGET NARRATIVE

Personnel

YEAR 1 PERSONNEL
Year 1 Total
\$ 0

Position Title & Name	Yearly Salary	% of Time	No. of Months	\$Amount
Principal Investigator, Ginny Eckert	\$196,773	0%	0.00 mos.	\$0

YEAR 2 PERSONNEL
Year 2 Total
\$0

Position Title & Name	Yearly Salary	% of Time	No. of Months	\$Amount
Principal Investigator, Ginny Eckert	\$201,693	0%	0.00 mos.	\$0

PROJECT TOTAL PERSONNEL
Project Total
\$ 0

Principal Investigator – Ginny Eckert: This position will provide program planning and supervision. This position relates to all program objectives. No funding is requested in Years 1-2 for the time PI Eckert spends administering this project. PI Eckert’s total project support is 0 hours (0.00 mos.) effort for a total project support of \$0.

Salaries above are listed at the FY24 rate and include a leave reserve of 20.6% for non-union faculty. Salaries also include a 2.5% annual inflation increase.

Fringe Benefits

YEAR 1 FRINGE BENEFITS
Year 1 Total
\$ 0

Position Title & Name	Yearly Salary	% Rate	\$ Amount
Principal Investigator, Ginny Eckert	\$196,773	25.1%	\$0

YEAR 2 FRINGE BENEFITS
Year 2 Total
\$ 0

Position Title & Name	Yearly Salary	% Rate	\$ Amount
Principal Investigator, Ginny Eckert	\$201,693	25.1%	\$0

PROJECT TOTAL FRINGE BENEFITS
Project Total
\$ 0

Staff benefits are applied according to UAF’s FY24 fixed fringe benefit rates. Rates are 25.1% for non-union faculty. A copy of the rate agreement is available at <http://www.alaska.edu/cost-analysis/negotiation-agreements/>.

Travel

TRAVEL	Total	\$ <u>0</u>
--------	-------	-------------

No matching funds will be provided for Travel costs.

Equipment

EQUIPMENT	Total	\$ <u>0</u>
-----------	-------	-------------

No matching funds will be provided for Equipment costs.

Supplies

SUPPLIES	Total	\$ <u>0</u>
----------	-------	-------------

No matching funds will be provided for Supplies costs.

Contractual

CONTRACTUAL	Total	\$ <u>0</u>
-------------	-------	-------------

No matching funds will be provided for Contractual costs.

Construction

CONSTRUCTION	Total	\$ <u>0</u>
--------------	-------	-------------

No matching funds will be provided for Construction costs.

Other

OTHER	Year 1 Total	\$ <u>32,909</u>
-------	--------------	------------------

Third Party Matching Funds in Year 1 will be provided by Alaska Pacific University for Nathan Wolf to direct the overall operation of the project and will work with co-PI, Josep Planas, on project coordination, administration, reporting and publication, and co-supervision of the graduate student. This position is responsible for overseeing coordination with other agencies and is the responsible authority for ensuring necessary reports/documentation are submitted to UAF Sea Grant.

OTHER	Year 2 Total	\$ <u>32,909</u>
-------	--------------	------------------

Third Party Matching Funds in Year 2 will be provided by Alaska Pacific University for Nathan Wolf to direct the overall operation of the project and will work with co-PI, Josep Planas, on project coordination, administration, reporting and publication, and co-supervision of the graduate student. This position is responsible for overseeing coordination with other agencies and is the responsible authority for ensuring necessary reports/documentation are submitted to UAF Sea Grant.

PROJECT TOTAL OTHER

Project Total\$ 66,452

Total Direct Charges

		Year 1 Total	\$ <u>32,909</u>
A. Personnel	\$0		
B. Fringe Benefits	\$0		
C. Travel	\$0		
D. Equipment	\$0		
E. Supplies	\$0		
F. Contractual	\$0		
G. Construction	\$0		
H. Other	<u>\$32,909</u>		
Year 1 Direct Costs	\$32,909		

		Year 2 Total	\$ <u>33,543</u>
A. Personnel	\$0		
B. Fringe Benefits	\$0		
C. Travel	\$0		
D. Equipment	\$0		
E. Supplies	\$0		
F. Contractual	\$0		
G. Construction	\$0		
H. Other	<u>\$33,543</u>		
Year 2 Direct Costs	\$33,543		

		Project Total	\$ <u>66,452</u>
A. Personnel	\$0		
B. Fringe Benefits	\$0		
C. Travel	\$0		
D. Equipment	\$0		
E. Supplies	\$0		
F. Contractual	\$0		
G. Construction	\$0		
H. Other	<u>\$66,452</u>		
Project Total Direct Costs	\$66,452		

Indirect Charges

YEAR 1 INDIRECT COSTS

Year 1 Total\$ 0

The predetermined rate is 55% and is computed on the following Year 1 Modified Total Direct Costs base \$0.

Personnel  
Fringe  
Travel  
Supplies  
Other  
**Total**

Multiplied by Indirect Cost Rate55%

YEAR 2 INDIRECT COSTS

Year 2 Total\$ 0

Personnel	
Fringe	
Travel	
Supplies	
Other	
<b>Total</b>	

PROJECT TOTAL INDIRECT COSTS	Project Total	\$ 0
------------------------------	---------------	------

Personnel	
Fringe	
Travel	
Supplies	
Other	
<b>Total</b>	

Facilities and Administrative (F&A) Costs are negotiated with the Office of Naval Research. The rate for sponsored research at UAF is calculated at 55.0% (FY23-FY26 predetermined agreement) of Modified Total Direct Costs (MTDC). MTDC includes Total Direct Costs minus tuition and associated fees, scholarships, participant support costs, rental/lease costs, subaward amounts over \$25,000, and equipment. A copy of the rate agreement is available at: <http://www.alaska.edu/cost-analysis/negotiation-agreements/>.

### Totals – Matching Funds Direct and Indirect Charges

Year 1 = \$32,909  
Year 2 = \$33,543  
Project Total = \$66,452

## ALASKA PACIFIC UNIVERSITY SUBAWARD

### REQUESTED FUNDS BUDGET NARRATIVE

#### PERSONNEL

APU Total \$6,729

##### Position Title

& Name	Yearly Salary	% of Time	No. of Months	\$Amount
PI, Nathan Wolf	\$107,664	%6	0.75	\$6,729

Principal Investigator – Nathan Wolf: This position directs the overall operation of the project and will work with co-PI, Josep Planas, on project coordination, administration, reporting and publication, and co-supervision of the graduate student. This position is responsible for overseeing coordination with other agencies and is the responsible authority for ensuring necessary reports/documentation are submitted to UAF Sea Grant. This position relates to all program objectives. Nathan Wolf will provide a total of 0.25 months effort for \$2,243 in Year 1 and 0.5 months effort for \$4,486 in Year 2 for a total of 0.75 months effort at \$6,729.

IPHC Total \$13,332.42

##### Position Title

& Name	Yearly Salary	% of Time	No. of Months	\$Amount
Co-PI, Josep Planas	\$142,767	%6	0.75	\$8,922.96
Collaborator, Andy Jasonowicz	\$70,551	%6	0.75	\$4,409.46

Co-Principal Investigator – Josep Planas: This position assists in the overall operation of the project and will work with PI, Nathan Wolf, on project coordination, administration, reporting and publication, and co-supervision of the graduate student. This position is responsible for assisting the PI with agency coordination and submission of necessary reports/documentation to UAF Sea Grant. This position relates to all program objectives. Josep Planas will provide a total of 0.25 months effort for \$2,916 in Year 1 and 0.5 months effort for \$6,006.96 in Year 2 for a total of 0.75 months effort at \$8,922.96.

Collaborator – Andrew Jasonowicz: This position will be responsible for instructing and assisting the graduate student with the proposed library preparation and with sequencing and implementing the bioinformatic approach. This position will assist with training, documentation, and reporting and publication. Andrew Jasonowicz will provide a total of 0.25 months effort for \$1,441 in Year 1 and 0.5 months effort for \$2,968.46 for a total of 0.75 months at \$4,409.46.

AFSC Total \$0

**Position Title**

<b>&amp; Name</b>	<b>Yearly Salary</b>	<b>% of Time</b>	<b>No. of Months</b>	<b>\$Amount</b>
Co-PI, Wes Larson	\$0	%0	0	\$0

Co-Principal Investigator – Wes Larson: This position will assist PI, Nathan Wolf, and co-PI, Josep Planas, on project coordination, publication, and co-supervision of the graduate student. This position will assist with the development of a high-throughput panel for Pacific halibut aging and will train the graduate student at the NOAA Auke Bay laboratory in this method. This position specifically relates to phase 3 of the project, and will also transfer this technology to the NOAA Alaska Fisheries Science Center. This position is not requesting any funding support from this project.

**FRINGE BENEFITS**

APU Total \$584.75

**Position Title**

<b>&amp; Name</b>	<b>Yearly Salary</b>	<b>% Rate</b>	<b>\$Amount</b>
PI, Nathan Wolf	\$107,664	%8.69	\$584.75

The base fringe benefit rate for APU employees for years one and two is calculated at 8.69%, comprised of FICA, Medicare, and ESC (state unemployment tax). In Year 1, Nathan Wolf's requested salary of \$2,243 equates to a total of \$194.92 in fringe benefits. In Year 2, the requested salary of \$4,486 equates to a total of \$389.83 in fringe benefits, for a total of \$584.75.

IPHC Total \$4,426.36

**Position Title**

<b>&amp; Name</b>	<b>Yearly Salary</b>	<b>% Rate</b>	<b>\$Amount</b>
Co-PI, Josep Planas	\$142,767	%33.2	\$2,962.42
Collaborator, Andy Jasonowicz	\$70,551	%33.2	\$1,463.94

The fringe benefit rate for full-time employees for years one and two is calculated at 33.2%. In Year 1, Josep Planas's requested salary of \$2,916 equates to \$968.11 in fringe benefits, and Andy Jasonowicz's salary of \$1,441 equates to \$478.41 in fringe benefits. In Year 2, Josep Planas's requested salary of \$6,006.96 equates to \$1,994.31 in fringe benefits, and Andy Jasonowicz's requested salary of \$2,968.46 equates to \$985.53 in fringe benefits.

AFSC Total \$0

## Position Title

& Name	Yearly Salary	% Rate	\$Amount
Co-PI, Wes Larson	\$0	%0	\$0

The AFSC is not requesting any funding support for fringe benefits.

## TRAVEL – DOMESTIC

APU Total \$9,199

Domestic Travel:

Year 1: \$1,306

Anchorage to Seattle (1 trip)		
Roundtrip airfare Anchorage-Seattle (\$500/person)		\$500
Hotel Seattle (\$232/night; 2 nights)		\$464
Per diem Seattle (\$74/day; 3 days)		\$222
Ground transportation (\$60/ride; roundtrip)		\$120
Trip total:		\$1,306

Justification: The graduate student will travel from Anchorage to Seattle for Year 1 project work with IPHC partners at the IPHC headquarters, and will use ground transportation from the airport to the hotel and IPHC building.

Year 2: \$7,893

Anchorage to Seattle (3 trips)		
Airfare Anchorage-Seattle-Anchorage (\$500/person)		\$1,500
Hotel Seattle (\$232/night; 2 nights)		\$1,392
Per diem Seattle (\$74/day; 3 days)		\$666
Taxi airport (\$60/ride; roundtrip)		\$360
Trip total:		\$3,918

Justification: The PI Nathan Wolf (1 trip) and graduate student (2 trips) will travel to the IPHC headquarters for Year 2 project work. They will both travel from Anchorage to Seattle and take ground transportation from the airport to the hotel and IPHC building.

Anchorage to Juneau (1 trip)		
Airfare Anchorage-Juneau-Anchorage (\$500/person)		\$500
Hotel Juneau (\$249/night; 2 nights)		\$498
Per diem Juneau (\$95/day; 3 days)		\$285
Taxi airport (\$40/ride; roundtrip)		\$80
Trip total:		\$1,363

Justification: The graduate student will travel from Anchorage to Juneau for project work with NOAA AFSC partners and will take ground transportation from the airport to the hotel and Auke Bay building.

Anchorage to Seattle (2 trips)	
Airfare Anchorage-Seattle-Anchorage (\$500/person)	\$1,000
Hotel Seattle (\$232/night; 2 nights)	\$928
Per diem Seattle (\$74/day; 3 days)	\$444
Taxi airport (\$60/ride; roundtrip)	\$240
Trip total: \$2,612	

Justification: The graduate student will travel from Anchorage to regional or national domestic conferences (2 trips). Conferences and locations are TBD, so costs for travel to Seattle are provided as estimates.

IPHC Total \$5,762

Domestic Travel:

Year 1: \$2,881.00

Seattle to Anchorage (2 trips)	
Airfare Seattle-Anchorage-Seattle (\$500/person)	\$500
Hotel Anchorage (\$229/night; 2 nights)	\$458
Per diem Anchorage (\$145/day; 3 days)	\$362.5
Taxi airport (\$60/ride; roundtrip)	\$120
Trip total: \$1,440.50	

Justification: The co-PI, Josep Planas, and collaborator, Andy Jasonowicz, will travel from Seattle to Anchorage for a Year 1 project meeting with partners at Alaska Pacific University, and will use ground transportation from the airport to the hotel and university.

Year 2: \$2,881.00

Seattle to Anchorage (2 trips)	
Airfare Seattle-Anchorage-Seattle (\$500/person)	\$500
Hotel Anchorage (\$229/night; 2 nights)	\$458
Per diem Anchorage (\$145/day; 3 days)	\$362.50
Taxi airport (\$60/ride; roundtrip)	\$120
Trip total: \$1,440.50	

Justification: The co-PI, Josep Planas, and project collaborator, Andy Jasonowicz, will travel from Seattle to Anchorage for Year 2 project meeting with partners. They will use ground transportation from the airport to the hotel and university.

Domestic Travel: AFSC does not request any funding support for travel.

EQUIPMENT

APU: \$0

IPHC: \$0

AFSC: \$0

SUPPLIES

APU Total: \$2,400

Year 1: \$2,100

Laptop for graduate student (\$1,800); postage and materials for engagement supplies and sample collection kits (\$300).

Year 2: \$300

Postage and materials for engagement supplies and sample collection kits.

IPHC Total: \$21,809

Year 1: \$21,809

General laboratory supplies	\$2,500
Molecular biology materials	\$19,309

Year 2: \$0

Supplies relate to items needed for processing and analyzing samples related to experiments contemplated in Tasks 2 and 3. General laboratory supplies include plastic consumables (\$1,500) and general chemicals and reagents (\$1,000). Molecular biology materials refer to Qiagen DNA purification kits (\$1,690/kit x 1 kits + tax = \$1,859), Agilent Bioanalyzer High Sensitivity DNA analyses (\$790/kit x 3 kits + tax = \$2,600), Zymo-Seq RRBS Library kits (\$2,250/kit/48 samples x 6 kits+ tax = (\$14,850).

AFSC Total: \$0

AFSC does not request any funding support for supplies.

## CONTRACTUAL

APU Total: \$4,000

Year 1: \$350

Conference registration fees for the graduate student to attend a regional/national domestic conference (TBD).

Year 2: \$4,350

One publication fee in an open-access peer-reviewed journal (TBD; \$4,000) and conference registration fees for the graduate student to attend a regional/national domestic conference (TBD; \$350).

IPHC Total: \$9,552

Year 1: \$7,750.50

Genome sequencing (Novaseq platform; \$5,949 x 1 lane)	\$5,949
--------------------------------------------------------	---------

Cloud computing services (\$600.50/mo. x 3 mo.)	\$1,801.50
-------------------------------------------------	------------

Contractual costs of \$5,949 for genome sequencing costs at \$5,949/lane and > 250 libraries. Cloud computing services from Microsoft Azure Virtual Machine will be used for bioinformatic analyses.

Year 2: \$1,801.50

Cloud computing services (\$600.50/mo. X 3 mo.)	\$1,801.50
-------------------------------------------------	------------

Contractual costs of \$1,801.50 for use of a Microsoft Azure Virtual Machine for bioinformatic analyses.

## CONSTRUCTION

APU: \$0

IPHC: \$0

AFSC: \$0

## OTHER

## TOTAL DIRECT CHARGES

APU Total \$23,612.75

A. Personnel	\$6,729
B. Fringe	\$584.75
C. Travel	\$9,199
D. Equipment	\$0
E. Supplies	\$2,400
F. Contractual	\$4,700
G. Construction	\$0
H. <u>Other</u>	<u>\$0</u>
I. Total Direct Costs	\$23,612.75

IPHC Total \$54,885.28

A. Personnel	\$13,332.42
B. Fringe	\$4,426.36
C. Travel	\$5,762
D. Equipment	\$0
E. Supplies	\$21,809
F. Contractual	\$9,552
G. Construction	\$0
H. <u>Other</u>	<u>\$0</u>
I. Total Direct Costs	\$54,885.28

AFSC Total \$0

#### INDIRECT CHARGES

APU Total: \$9,917.36

The pre-determined rate is 42% and is computed on a base of \$23,612.75, which includes all direct charges listed above for this institution.

IPHC Total: \$5,488.53

The IPHC charges a de minimis indirect rate of 10% on a base of \$54,885.28, which includes all direct charges listed above for this institution.

**TOTALS- DIRECT AND INDIRECT CHARGES**

APU Total: \$33,530.11

IPHC Total: \$60,373.81

Project Total: \$93,903.92

## ALASKA PACIFIC UNIVERSITY SUBAWARD

### MATCH FUNDS BUDGET NARRATIVE

#### PERSONNEL

APU Total \$17,944

##### Position Title

& Name	Yearly Salary	% of Time	No. of Months	\$Amount
PI, Nathan Wolf	\$107,644	%16.67	2	\$17,944

Principal Investigator – Nathan Wolf: This position directs the overall operation of the project and will work with co-PI, Josep Planas, on project coordination, administration, reporting and publication, and co-supervision of the graduate student. This position is responsible for overseeing coordination with other agencies and is the responsible authority for ensuring necessary reports/documentation are submitted to UAF Sea Grant. This position relates to all program objectives. Nathan Wolf will provide a total of 1 month effort per year at \$8,972/year, for a total of \$17,944 in match support.

IPHC Total \$35,379.84

##### Position Title

& Name	Yearly Salary	% of Time	No. of Months	\$Amount
PI, Josep Planas	\$142,767	%16.67	2	\$23,677.92
Collaborator, Andy Jasonowicz	\$70,551	%16.67	2	\$11,701.92

Co-Principal Investigator – Josep Planas: This position assists in the overall operation of the project and will work with PI, Nathan Wolf, on project coordination, administration, reporting and publication, and co-supervision of the graduate student. This position is responsible for assisting the PI with agency coordination and submission of necessary reports/documentation to UAF Sea Grant. This position relates to all program objectives. Josep Planas will provide a total of 1 month effort for \$11,664 in Year 1 and 1 month effort for \$12,013.92 in Year 2 in match support.

Collaborator – Andrew Jasonowicz: This position will be responsible for instructing and assisting the graduate student with the proposed library preparation and with sequencing and implementing the bioinformatic approach. This position will assist with training, documentation, and reporting and publication. Andrew Jasonowicz will provide a total of 1 month effort for \$5,765 in Year 1 and 1 month effort for \$5,936.92 in Year 2 in match support.

AFSC Total \$0

**Position Title**

<b>&amp; Name</b>	<b>Yearly Salary</b>	<b>% of Time</b>	<b>No. of Months</b>	<b>\$Amount</b>
Co-PI, Wes Larson	\$0	%0	0	\$0

Co-Principal Investigator – Wes Larson: This position will assist PI, Nathan Wolf, and co-PI, Josep Planas, on project coordination, publication, and co-supervision of the graduate student. This position will assist with the development of a high-throughput panel for Pacific halibut aging and will train the graduate student at the NOAA Auke Bay laboratory in this method. This position specifically relates to phase 3 of the project, and will also transfer this technology to the NOAA Alaska Fisheries Science Center. This position is not requesting any funding support from this project.

**FRINGE BENEFITS**

APU Total \$1,559

**Position Title**

<b>&amp; Name</b>	<b>Yearly Salary</b>	<b>% Rate</b>	<b>\$Amount</b>
PI, Nathan Wolf	\$8,972	8.69	\$1,559.33

The base fringe benefit rate for APU employees for years one and two is calculated at 8.69%, comprised of FICA, Medicare, and ESC (state unemployment tax). In Year 1, Nathan Wolf's match salary of \$8,972 equates to a total of \$776.67 in fringe benefits. In Year 2, the match salary of \$8,972 equates to a total of \$776.67 in fringe benefits.

IPHC Total \$11,568

**Position Title**

<b>&amp; Name</b>	<b>Yearly Salary</b>	<b>% Rate</b>	<b>\$Amount</b>
PI, Josep Planas	\$	33.2	\$7,740.93
Collaborator, Andy Jasonowicz	\$	33.2	\$3,827.48

The fringe benefit rate for full-time employees for years one and two is calculated at 33.2%. In Year 1, Josep Planas's match salary of \$11,664 equates to \$3,872.45 in fringe benefits, and Andy Jasonowicz's match salary of \$5,765 equates to \$1,856.33 in fringe benefits. In Year 2, Josep Planas's match salary of \$12,013.92 equates to \$3,868.48 in fringe benefits, and Andy Jasonowicz's match salary of \$5,936.92 equates to \$1,971.15 in fringe benefits.

AFSC Total \$0

**Position Title**

<b>&amp; Name</b>	<b>Yearly Salary</b>	<b>% Rate</b>	<b>\$Amount</b>
Co-PI, Wes Larson	\$0	%0	\$0

The AFSC is not requesting any funding support for fringe benefits.



**Department of Commerce**  
National Oceanic and Atmospheric Administration (NOAA)  
OAR National Sea Grant College Program (SG)

**Notice of Award (NoA)**  
NA24OARX417C0027-T1-01

#### RECIPIENT INFORMATION

- 1. Recipient Name**  
UNIVERSITY OF ALASKA FAIRBANKS  
2145 N TANANA LOOP  
FAIRBANKS, AK 99775
- 2. Congressional District of Recipient**  
00
- 3. Employer Identification Number (EIN)**  
926000147
- 4. UEI**  
FDLEQJ8FF63
- 5. Recipient Point of Contact**  
Ginny Eckert (Contact)  
gleckert@alaska.edu
- 6. Authorized Official**  
Ginny Eckert  
gleckert@alaska.edu

#### FEDERAL AGENCY CONTACT INFORMATION

- 7. Grant Specialist**  
Amanda Stussman  
amanda.stussman@noaa.gov
- 8. Program Officer**  
Rebecca Briggs  
rebecca.briggs@noaa.gov
- 9. Grant Officer**  
Angela Carpenter  
angela.carpenter@noaa.gov

#### FEDERAL AWARD INFORMATION

- 10. Award Number / FAIN**  
NA24OARX417C0027-T1-01 / NA24OARX417C0027 / Mod 0
- 11. Award Type**  
Cooperative Agreement
- 12. Period of Performance Start Date & End Date**  
02/01/2024 – 01/31/2028
- 13. Federal Share of Cost**  
\$1,914,321
- 14. Recipient Share of Cost**  
\$957,161
- 15. Total Federal and Recipient Cost**  
\$2,871,482
- 16. Opportunity Number**  
NOAA-OAR-SG-2024-23187
- 17. Project Title**  
Alaska Sea Grant 2024-2027 Omnibus
- 18. Assistance Listing Number and Name**  
11.417 Sea Grant Support
- 19. Award Action Type**  
New Competing
- 20. Multiyear Award?**  
Yes
- 21. R&D Award?**  
Yes
- 22. Construction Award?**  
No
- 23. Grants Officer – Signature and Date**  
RAISHAN ADAMS – 05/31/2024

DocuSigned by:

*Kimberly Cox*

D0BB185CF70446A...

**University of Alaska Fairbanks**

**Authorized Organizational Representative**



**Department of Commerce**  
NOAA  
OAR National Sea Grant College Program (SG)

**Notice of Award**  
NA24OARX417C0027-T1-01

## NOTICE OF NOAA AWARD COVER LETTER

Congratulations, you are the recipient of NOAA award Number NA24OARX417C0027-T1-01.

This Notice of Award (NoA) approved by the NOAA Grants Officer, constitutes the official grant award and the obligation of Federal funding. The NoA serves as the official legal document issued to notify the recipient and others that an award has been made. The NoA contains all terms and conditions of the grant award.

The complete NoA can be found and downloaded under eRA Commons using the following instructions: [View Notice of Award | eRA](#)

This NoA was sent to the specified email address entered in the NoA email field by the recipient organization when completing the electronic Research Administration (eRA) Commons registration process. The Signing Official (SO) can update this email address through the Institutional Profile section in eRA Commons. The NoA can also be viewed from the *Status Information* page in eRA Commons. By accepting the award, the recipient agrees to comply with the award provisions specified on the award document.

As the Signing Official (SO) you are authorized to legally bind the institution in grant-administration matters. In providing your signature approval on the grant application submission you are responsible for monitoring grant related activities and authorizing expenditures under this award.

Additional Information about your award is shown below:

- Assistance Listing Number: 11.417
- Project Period: 02/01/2024 – 01/31/2028
- Program Office: OAR National Sea Grant College Program (SG)
- Program Officer: Rebecca Briggs
- Program Officer Phone:
- Program Officer Email: rebecca.briggs@noaa.gov
- Total Federal Funding: \$1,914,321
- Total Non-Federal Funding: \$957,161
- Organization Name: UNIVERSITY OF ALASKA FAIRBANKS
- Project Title: Alaska Sea Grant 2024-2027 Omnibus
- Name of Principal Director/Project Investigator (PI/PD) as identified in the negotiated application:
  - o Molly Cain
  - o Brooke Carney
  - o Gabriel Dunham
  - o Ginny Eckert (contact)

This email was sent from a source that is not monitored for responses. If you need assistance, contact your Program/Project Officer (for programmatic issues) or the [eRA Help Desk](#) (for technical issues).

**SECTION I – BUDGET INFORMATION****Approved Budget**

	Year 1 Federal	Year 2 Federal	Year 3 Federal	Year 4 Federal	Total
Fed-NonFed Senior/Key Personnel	\$243,587	\$249,676	\$245,101	\$240,141	\$978,505
Fed-NonFed Other Personnel	\$603,838	\$611,148	\$546,991	\$545,632	\$2,307,609
Fed-NonFed Travel	\$125,106	\$151,384	\$107,336	\$119,477	\$503,303
Fed-NonFed Participant/Trainee	\$60,047	\$45,810	\$46,647	\$42,510	\$195,014
Fed-NonFed Other	\$481,515	\$486,750	\$554,792	\$540,691	\$2,063,748
Total Direct Charges	\$1,514,093	\$1,544,768	\$1,500,867	\$1,488,451	\$6,048,179
Indirect Charges	\$400,228	\$369,553	\$413,454	\$425,870	\$1,609,105
Federal	\$1,914,321	\$1,914,321	\$1,914,321	\$1,914,321	\$7,657,284
Non-Federal	\$957,161	\$957,161	\$957,161	\$957,161	\$3,828,644

**Authorized**

	Cumulative
Federal	<b>\$1,914,321</b>
Non-Federal	\$957,161
Total	\$2,871,482

**Authorized Funding Codes**

					Cumulative
140Y8R3B03	24P00	145042000000000000	41001200	SG OMNIBUS ADMIN	\$554,655
140Y8R3BAC	24PRS	145042000000000000	41001200	SGAQUACULTURER ES	\$96,375
140Y8R3B04	24P00	145042000000000000	41001200	SG OMNIBUS EXT ED	\$673,022
140Y8R3B02	24P00	145042000000000000	41001200	SG OMNIBUS RES	\$590,269
Total					\$1,914,321

**SECTION II – NOAA STANDARD TERMS AND CONDITIONS**

- 2 CFR PART 200, UNIFORM ADMINISTRATIVE REQUIREMENTS, COST PRINCIPLES, AND AUDIT REQUIREMENTS, AS ADOPTED PURSUANT TO 2 CFR § 1327.101  
<https://www.ecfr.gov/current/title-2/subtitle-A/chapter-II/part-200?toc=1>
- DEPARTMENT OF COMMERCE FINANCIAL ASSISTANCE STANDARD TERMS AND CONDITIONS  
<https://www.commerce.gov/oam/policy/financial-assistance-policy>  
The Department of Commerce Financial Assistance Standard Terms and Conditions (ST&C) issued November 12, 2020, are incorporated by reference into this award.
- Bureau Financial Assistance Standard Terms and Conditions  
[Administrative Standard Award Conditions for National Oceanic and Atmospheric Administration \(NOAA\) Financial Assistance Awards U.S. Department of Commerce](#)
- Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements (REF: 79FR 78390)  
<https://www.govinfo.gov/content/pkg/FR-2014-12-30/pdf/2014-30297.pdf>
- FEDERAL-WIDE RESEARCH TERMS AND CONDITIONS, AS ADOPTED BY THE DEPT. OF COMMERCE  
<https://www.nsf.gov/awards/managing/rtc.jsp>

- R & D AWARD  
[Awards - Federal-Wide Research Terms and Conditions | NSF - National Science Foundation](#)

---

## SECTION III – SPECIFIC AWARD CONDITIONS

### **SPECIAL TERMS**

#### **Foreign Air Carrier**

The recipient shall comply with the provisions of the Fly America Act (49 U.S.C. § 40118). The implementing regulations of the Fly America Act are found at 41 C.F.R. §§ 301-10.131 through 301-10.143. If a foreign air carrier is anticipated to be used for any portion of travel under a DOC financial assistance award the recipient must receive prior approval from the Grants Officer.

#### **Sea Grant Project Extension**

Authority is delegated to the Recipient to extend any projects or subawards incorporated in this Sea Grant Omnibus award up to, but not beyond, the approved grant project period without prior approval by the NOAA Grants Officer. NOAA's Sea Grant Program must be notified in writing of any such task extensions in the annual performance reports.

#### **Statutory Authority**

The legal authority for this award can be found in 33 U.S.C. 1121 et seq., as amended, which are incorporated by reference into this award.

#### **Use of NOAA Emblem**

The National Oceanic and Atmospheric Administration (NOAA) holds federal trademark registrations for the NOAA emblem and asserts common law trademark rights in the Sea Grant logo. Recipient is permitted to use the NOAA emblem and Sea Grant logo pursuant to the below terms and conditions for the following limited purposes and in the following manner:

- o Recipient shall ensure the NOAA emblem **and** the Sea Grant logo are placed on all print and digital media produced by the recipient and subrecipients under this award, including, but not limited to, scientific posters and presentations, extension products, and administrative materials such as conference agendas and program websites. This logo placement is in addition to the acknowledgement of sponsorship statement required for publications and videos by the Department of Commerce Standard Terms and Conditions.
- o Use of the NOAA emblem and the Sea Grant logo shall be in compliance with style guidance and standards specified at <https://seagrant.noaa.gov/inside-sea-grant/communications/>.
- o The Sea Grant logo may be either the approved program-specific logo or the national Sea Grant logo without the program designation.

Recipient may not use the NOAA emblem or Sea Grant logo for other purposes, including lobbying or issue advocacy, endorsing a product or organization, or communications to elected officials or federal agencies. Recipient may not use the NOAA emblem or Sea Grant logo in a negative or defamatory manner. Recipient must request and obtain OAR permission prior to certain uses of the NOAA emblem or Sea Grant logo (see section 2, below).

1. Grant of License: OAR hereby grants to Recipient a non-exclusive, royalty-free right to use the NOAA emblem and Sea Grant logo for the limited purposes described above (the "License"). Recipient agrees that: (1) the NOAA emblem and Sea Grant logo will not be used in a way that would suggest that they are the property of Recipient or any other third party, and (2) Recipient will include the following notice in conjunction with its

use of the NOAA emblem and Sea Grant logo, as appropriate: "The NOAA emblem and Sea Grant logo are trademarks of the National Oceanic and Atmospheric Administration (NOAA), used with permission." This License does not grant Recipient the right to use any seal, emblem, logo, or other symbol of the U.S. Department of Commerce, NOAA, or OAR that is not the NOAA emblem or Sea Grant logo.

2. Required Approvals for Certain Uses of the NOAA emblem and Sea Grant logo: Before Recipient uses the NOAA emblem or Sea Grant logo for press releases, Recipient shall send a sample of each print, product, design, or other work to show the proposed use to the OAR Public Affairs Specialist (whose contact information may be obtained from NSGO Communications or sgweb@noaa.gov). Recipient shall not use the NOAA emblem or Sea Grant logo for the above purposes until receiving written approval (including via email) from OAR of the proposed use.
3. Quality Control: OAR shall have the right, at all reasonable times, to inspect Recipient's goods, services, and promotional activities employing the NOAA emblem or Sea Grant logo to ensure that such use is of proper quality and otherwise consistent with this License.
4. Duration and Termination: The License shall terminate on the Award End Date. Recipient may request a renewal of the License for an additional term subject to the express written consent of OAR. Such consent shall be in the form of a properly executed agreement signed by authorized signatories of OAR and Recipient. Upon termination of the License, all rights of Recipient to use the NOAA emblem and Sea Grant logo shall immediately terminate. OAR may terminate the License unilaterally and without cause at any time, including if OAR determines that Recipient's use of the NOAA emblem or Sea Grant logo is inconsistent with the License.
5. Validity and Ownership of NOAA emblem and Sea Grant logo: Recipient acknowledges and agrees that NOAA is the owner of all right, title, and interest in the NOAA emblem and Sea Grant logo, and all such right, title, interest, and ownership shall remain with NOAA. Recipient further acknowledges that Recipient shall not acquire any right, title, interest, or ownership in the NOAA emblem or Sea Grant logo by virtue of the License or use other than the license granted hereunder and disclaims any such right, title, interest, or ownership. Recipient is prohibited from interfering with NOAA's rights in the NOAA emblem and Sea Grant logo, including challenging NOAA/OAR's use, registration of, or application to register the NOAA emblem or Sea Grant logo alone or in combination with other words or designs, as a U.S. or foreign trademark anywhere in the world. Recipient is further prohibited from attempting to register the NOAA emblem or Sea Grant logo, any derivatives thereof, or any confusingly similar mark, whether or not registered by NOAA or OAR, alone or in combination with other words or designs, as a U.S. or foreign trademark or as a part of a domain name.
6. Assignments and Sub-Licenses: The License is not assignable, and any attempt by Recipient to assign any portion of the License shall be deemed a breach of the License and will result in immediate termination of the License. Recipient may subcontract, thereby engaging in a limited sublicensing arrangement as applicable, for manufacturing and distribution activities under the License; Recipient shall provide notice to NOAA's National Sea Grant Office (NSGO)—and must receive prior approval from NSGO Communications—of any such subcontract prior to manufacturing and distribution activities.
7. Governing Law: The License shall be interpreted and implemented in accordance with the Federal common law as interpreted by the U.S. District Court for the District of Columbia, without giving effect to any conflict of law principle that would result in the application of the substantive law of another jurisdiction.

8. Indemnification: Recipient agrees to indemnify and hold NOAA and OAR harmless from any and all claims, damages, and attorneys' fees arising from the use of the NOAA emblem or Sea Grant logo by the Recipient and its operations, except to the extent that any such claims, damages, or attorneys' fees arose in connection with any act or failure to act by the U.S. Department of Commerce or any agency, department, or subdivision thereof.
9. Obtaining the NOAA emblem and Sea Grant logo: For an electronic version of the NOAA emblem and Sea Grant logo, Recipient should contact NSGO Communications or [sgweb@noaa.gov](mailto:sgweb@noaa.gov).

## Cooperative Agreement

The Cooperative Agreement (CA) is between the National Oceanic and Atmospheric Administration's (NOAA) National Sea Grant Office (NSGO) and the recipient. The substantial involvement between the Federal Agency and the recipient during performance of the activity includes working with their Federal Program Officer in the National Sea Grant Office to conduct their biennial research competition and any additional competitions within the award time frame. The recipient also worked collaboratively with the National Sea Grant Office on their FY2024-27 Strategic Plan, which informed the development of this application and the goals and outcomes of the work being performed.

## P/2024-09- Future Competitive Research

Project will include future support of individual projects. Initiation of any selected project will not begin until FPO has certified that that project was competed and selected according to the rules of the selection process. This project contains future competed projects in FY26-27 totaling \$695129 Federal and \$347565 match.

## R/2024-04- Permit or Additional Documentation Required

To complete environmental review for the actions proposed in this financial assistance award application under project R/2024-04, "Quantifying the Influence of Environmental Conditions on Potential Trophic Interactions and Growth of Juvenile Sockeye Salmon & Threespine Stickleback within Iliamna Lake", NOAA must review final approved permits. The applicant must provide the following information in response to this Special Award Condition: Copy of permits for Aquatic Resource Collection (e.g. fish). No Aquatic Resource Collection as part of this project can begin until all documents are submitted and accepted by NOAA.

## R/2024-01- Permit or Additional Documentation Required

"To complete environmental review for the actions proposed in this financial assistance award application under project R/2024-01, "Integrating emerging technologies with community-based observations to assess spotted seal ecology at terrestrial haul-outs in Arctic Alaska", NOAA must review final approved permits. The applicant must provide the following information in response to this Special Award Condition: Copy of Bureau of Land Management for spotted seal studies. No spotted seal studies as part of this project can begin until all documents are submitted and accepted by NOAA.

## R/2024-06- Permit or Additional Documentation Required

To complete environmental review for the actions proposed in this financial assistance award application under project R/2024-06, "Nature-based and community-engaged Arctic coastal protection", NOAA must review final approved permits. The applicant must provide the following information in response to this Special Award Condition: Copy of permits for soil sample collection. No soil sample collection as part of this project can begin until all documents are submitted and accepted by NOAA.

## A/2024-01- Permit or Additional Documentation Required

To complete environmental review for the actions proposed in this financial assistance award application under project A/2024-01, "Ecosystem Monitoring in Support of Healthy Communities and Ecosystems ", NOAA must review final approved permits. The applicant must provide the following information in response to this Special Award Condition: Copy of permits for harmful algal bloom collection, intertidal algae, invertebrate, and fish collection, scraping and monitoring pvc plates for invasive species, and trapping Eastern Green Crabs. No harmful algal bloom

collection, intertidal algae, invertebrate, and fish collection, scraping and monitoring pvc plates for invasive species, and trapping Eastern Green Crabs as part of this project can occur until all documents are submitted and accepted by NOAA.

**Matching Requirement (New Award)**

Since this award requires the Recipient to provide \$957,161 in project-related costs from non-Federal sources, the Recipient must maintain in its official accounting records an accounting of \$2,871,482.

**New Award (New)** This award number NA24OARX417C0027-T1-01 to UNIVERSITY OF ALASKA FAIRBANKS supports the work described in the Recipient's proposal entitled "Alaska Sea Grant 2024-2027 Omnibus", dated 10/26/2023, which is incorporated into the award by reference. Where the terms of the award and proposal differ, the terms of the award shall prevail.

**Multi-Year Award (New)**

The award period and budget(s) incorporated into this award cover a 4-year period for a total amount of \$7,657,284 in Federal funds. However, Federal funding available at this time is limited to \$1,914,321 for this funding period. Receipt of any prospective funding is contingent upon the availability of funds from Congress, satisfactory performance, continued relevance to program objectives, and will be at the sole discretion of the Department of Commerce. The Department of Commerce is not liable for any obligations, expenditures, or commitments which involve any amount in excess of the Federal amount presently available. The Recipient will be responsible for any and all termination costs it may incur should prospective funding not become available. No legal liability will exist or result on the part of the Federal Government for payment of any portion of the remaining funds which have not been made available under the award. Notifications affecting funding or notice of non-availability of additional funding for prospective years will be made only by the Grants Officer. The amendment to obligate prospective funding available shall be made via an Amendment to Financial Assistance Award, if at all possible prior to the expiration of each year's activities.

The funding period for this award is 02/01/2024 through 01/31/2025 and may be extended through 01/31/2028.