

# 1. Project Title: Leveraging radiation-induced chemistry and natural products for drug development

2. Tak Suyama (PI), Chemistry Department; Elliott Hulley and Franco Basile, Chemistry Dept (project 1 and 2 collaborators, respectively); Thomas Boothby, Eunsook Park, and Jason Gigley, Molecular Biology Dept (project 2 collaborators); Alex French, Pharmacy Dept (projects 1 and 4 collaborator)

3. Total Requested amount: \$44,793.98

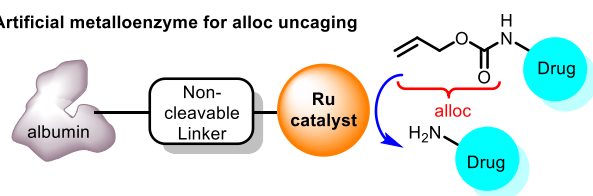
## 4. Project Description

1) Purchase of a used **X-ray irradiator**, 2) the installation cost of an **autoclave**, and 3) the renovation cost of **connecting labs** are requested for the PI's **four medicinal chemistry projects**. These projects are translational in nature and have a great potential for producing IPs for clinical technologies. The X-ray irradiator will be employed in projects 1 and 2. The autoclave will be used to sterilize growing media and equipment used in projects 1-4. The PI's chemical synthesis lab and analytical instrument lab being connected would benefit projects 1-4. In addition, the quoted installation and renovation work was much more expensive than anticipated and cannot be covered by the PI's startup funds. In the Physical Science building, the Suyama lab is the first to house an autoclave and this installation will foster future interdisciplinary research and collaboration encompassing biology in the chemistry department. Lastly, all the proposed projects require samples and other hazardous materials to be transported between the PI's chemistry lab (PS404) and the PI's analytical lab (PS405) frequently. For both safety and efficiency considerations, it is important that the researchers be able to carry such samples without going through the public hallway. The renovation cost to open a doorway between the two labs is requested.

The proposed research will have an **impact on education** as findings from these projects are discussed in CHEM4400 Biological Chemistry class as well as the expected participation of undergraduate students in this work. The PI Suyama has mentored over 20 undergraduate research students so far in his career. Currently, one PhD student is working in the Suyama lab and two students have been recruited to join in the Spring 2025 semester. At least another PhD student will be recruited in the next academic year.

### Project 1: Artificial metalloenzyme for tissue selective drug delivery

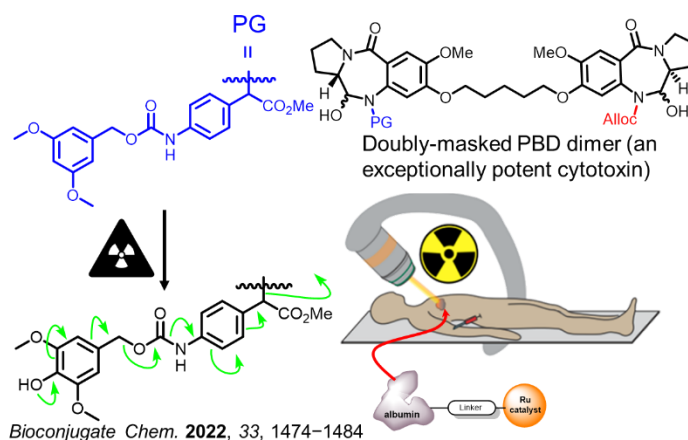
Artificial metalloenzyme for alloc uncaging



Many promising drugs suffer from adverse side effects due to untargeted delivery. We'd like to remedy this by designing an artificial metalloenzyme that will selectively activate a caged (deactivated by alloc group) drug. The artificial metalloenzyme is based on the most abundant protein in human blood, albumin, which does not cause

any side effects. Albumin is actively taken up by aggressive tumors as a nutrient source and therefore it makes for a great delivery vehicle. The proposed therapy consists of administering the caged drug and the albumin-metal catalyst conjugate simultaneously, wherein the uncaging selectively occurs in the tumor.

We are further improving the selectivity by designing a "two-factor authentication prodrug." A potent dimeric cytotoxin is doubly caged by both the same functional group as above (alloc) and by a functional group that can be cleaved off by **X-ray radiation**. This prodrug will only be activated in the presence of both radiotherapy and our artificial metalloenzyme, exponentially increasing the selectivity of delivery.

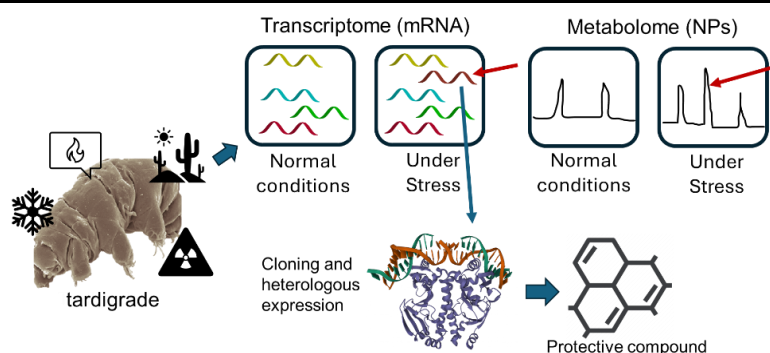


*Bioconjugate Chem.* **2022**, 33, 1474–1484

NIH-INBRE RP proposal “Albumin-ruthenium catalyst conjugates for selective delivery of anti-cancer drugs” submitted on 10/25/2024. Originally radiation-induced chemistry was planned to be delegated to a collaborator, but I now have an incoming PhD student interested in not only using the radiation-induced chemistry but improving it. Therefore, having local access to an X-ray irradiator will be necessary, which is a cost not accounted for in the INBRE proposal nor my startup budget.

### Project 2: Discovery of novel anti-fungal metabolites protecting tardigrades during prolonged biostasis

Tardigrades are renowned for their ability to survive under extreme conditions such as temperatures as cold as  $-270\text{ }^{\circ}\text{C}$ , boiling hot water, months of desiccation, **high dose of radiation**, and high pressure. In order to survive hostile conditions, they often go into a state of biostasis, in which their metabolism is completely shut down as though they are dead. Yet they resuscitate just fine when the conditions return to



normal. Protection from fungal colonization, etc is best afforded by small molecules during prolonged suspended animation. Our goal is to search for such compounds with antifungal activities for treating aggressively pathogenic fungi for which we do not have effective antifungal drugs (such as *Candida auris*). We will accomplish this by comparing the tardigrade gut bacterial transcripts (mRNA made to produce corresponding protein / enzyme) and their metabolites (as measured by LC-MS/MS in the Basile Lab) under normal conditions and under stress conditions. The mRNA produced specifically under stress condition will be leveraged to find the biosynthetic gene cluster for the biosynthesis of antifungal compounds. Such genes will be placed in a bacterial host for mass production of the desired metabolites. Those compounds will be fully characterized and synthetically modified to provide novel leads for **antifungal drug development**.

NIH R21/R33 grant under preparation (to be submitted by January 28, 2025). The R21 phase budget is small and will not have room for purchasing any equipment.

### Project 3: Biocatalyst engineering for natural product synthesis

Some medicinally promising natural products (NPs) are challenging to access by synthesis. We are harvesting the selectivity of natural enzymes and applying them to natural product synthesis. This is done through engineering an enzyme called cytochrome P450 through a directed evolution strategy in which we introduce various mutations to the enzyme and select the best mutant by analyzing the enzymatic reaction efficiency.

Currently funded by NSF RUI grant (RUI: Directed Evolution of Cytochrome P450 for Synthesis of Pyrrole Marine Natural Products, CHE-2102225, awarded at Waynesburg University)

### Project 4: Millipede natural product total synthesis

Recently discovered millipede alkaloids have novel structural scaffolds that could be exploited by our unique cascading synthetic strategy in which the whole assembly of the molecule happens in a single chemical reaction. By successfully employing this novel synthetic strategy, we will contribute to important facets of ecology, neurobiology, and neuropharmacology. These alkaloids bind strongly to an “orphan receptor” called  $\sigma_1$  receptor, which governs many physiological phenomena in our body including the cardiovascular system and our psychology. Yet we still do not know what the endogenous ligand is for this receptor. These natural products will be an excellent probe to study this important receptor.

NSF grant submitted on 9/30/2024 “Tandem ring-opening / ring-closing metathesis for total synthesis of millipede indolizidine alkaloids”. This proposal includes provision for **K-12 outreach** and hiring **undergraduate students** to participate in the synthesis.

## Budget Description

Leveraging radiation-induced chemistry and natural products for drug development

Three items are requested in this proposal.

1. Precision CellRad Benchtop X-Ray Irradiator; \$17,500 + estimated shipping \$1,500 = **\$19,000** (quote attached, estimated shipping from personal communication with the sales rep)
  - a. This is a used item on LabX with a manufacture date of **November 2021**
  - b. A quote from Precision for a brand-new unit including shipping and installation is \$89,440 (as a reference point).
  - c. The radiation-induced chemistry work was always planned even before receiving the startup funds. However, I originally planned on having an external collaborator conduct radiation-related work. Due to logistical challenges of this collaboration, the relative ease of operating a radiation irradiator that doesn't involve radioactive materials, and my incoming PhD student being interested in improving the radiation-induced chemistry used in our drug delivery platform, I decided that purchasing an irradiator makes the most sense.
  - d. The operation of the irradiator will **not require any special licenses** or safety provisions. It operates like a microwave oven except the wavelength and energy.
  - e. The unit only requires a regular 120 V outlet for operation and it will be housed in PS405, which has adequate floor space for the unit.
  - f. This unit can be used by the Boothby lab for studying the tardigrades' ability to survive radiation and by some of the material science colleagues in the College of Engineering. These interactions are expected to strengthen collaborative network on the UW campus.
2. Autoclave installation cost; **\$11,793.98**
  - a. RFE AiM Project #: 25-12225 (\$10,000, RFE attached)
  - b. Exhaust Condenser for Sterilmatic Sterilizer (\$1,793.98, quote from VWR attached)
  - c. The installation of the autoclave requires **a new floor sink/drain** (which will also aid in mitigating water damages from flooding when/if the safety shower is used – currently there is no floor drain in the room), plumbing for water inlet, a special exhaust condenser unit, and a 210 V electrical outlet.

- d. An autoclave is needed for sterilizing growing media for culturing bacteria and other cells needed for the biochemical work. In addition, equipment and consumables like flasks and pipet tips need to be autoclaved for work involving living cells. Our lab would be using the autoclave everyday and transporting sterile items from another building with a pre-existing autoclave is neither practical nor advised.
  - e. Suyama has already purchased the autoclave with his startup funds (\$14,000). Originally, no renovation for the exhaust management was planned, but the facility department determined that exhaust plumbing must be installed to meet the building code requirements, necessitating the purchase of the exhaust condenser unit.
3. Creating a doorway opening between labs PS404 and PS405; **\$17,000**
- a. In the quote, the wrong room numbers are listed
  - b. RFE AiM Project #: 25-12149 (\$17,000, RFE attached)
  - c. This work will allow researchers to transport samples and chemicals between the chemical synthesis lab (PS404) and the analytical instrumentation lab (PS405) without taking the materials out to the hallway. Both labs belong to the same PI (Suyama).
  - d. The partial reason for this expensive quote is that the Facilities Dept fears that the air intake/exhaust control unit may need to be replaced to account for the disturbance caused by the new opening.

Total: \$47,793.98

From the startup funds, I had planned on spending \$3,000 for the installation of the autoclave and creating a doorway opening between the labs. Therefore, I plan to cover \$3,000 of the total cost with my startup funds.

Moreover, please note that the actual cost of the two RFE projects may end up being much lower than the estimate (\$27,000). Upon being awarded, the requested amount will be adjusted according to the actual costs, which will not exceed the estimates.

Actual Total Request: **\$44,793.98**



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Created Date	12/11/2024	Prepared By	Ryan Cabral
Quote Number	00012018	Email	rcabral@ssllc.com
Bill To Name	University of Wyoming	Contact Name	Takashi Suyama
Bill To	1000 E University Ave Laramie, WY 82071 US	Phone	5412313528
		Email	tsuyama@uwyo.edu

Ship To Name	University of Wyoming	Payment Terms:	Due upon receipt of invoice
Ship To	Science Initiative Building - 3944  1000 East University Avenue Laramie, WY 82071 US		

Product	Product Code	View On Site	List Price	Sales Price	Total Price
Precision CellRad Benchtop X-Ray Irradiator	376756	URL Link	\$17,500.00	\$17,500.00	\$17,500.00
		Total Price			\$17,500.00
		Grand Total			\$17,500.00

ALL ITEMS SUBJECT TO PRIOR SALE. SHIPPING, SKIDDING, AND CRATING ADDITIONAL COST. ALL EQUIPMENT SOLD AS-IS WHERE-IS. PAYMENT DUE UPON RECEIPT OF INVOICE.

**FOR REVIEW AND INFORMATIONAL PURPOSES ONLY – FINAL AGREEMENT TO BE SIGNED VIA DOCUSIGN UPON INVOICING**

**PURCHASE AND SALE AGREEMENT**

Subject to the terms and conditions of this Purchase and Sale Agreement (the "Agreement"), Surplus Solutions, LLC and/or its consignor (the owner of the equipment) (in either case, the "Seller") agrees to sell to you (the "Buyer"), and Buyer agrees to purchase from Seller, all of Seller's right, title and interest in the Equipment (as defined below), free and clear of liens and encumbrances.

As used in this Agreement, "Equipment" means all equipment, machinery, accessories, attachments, spare or replacement parts, tools, supplies, merchandise or goods listed on the attached Exhibit A.

In exchange for the Equipment, Buyer agrees to pay to Seller an amount equal to \$\_\_\_\_\_,000.00 (\_\_\_\_ Dollars and \_\_\_\_\_ Cents) (the "Purchase Price") upon execution of this Agreement. Except as set forth below, all deposits made by Buyer are nonrefundable.

ACCEPTANCE. Sale of any Equipment by Seller is expressly subject to the terms and conditions set forth herein. Any additional or different terms or conditions set forth in any communication from Buyer, whether in writing or orally, including but not limited to terms and conditions in Buyer's request for quotation or purchase order, are hereby rejected by Seller and superseded by this Agreement. If there is any inconsistency between this Agreement and the terms of a purchase order, this Agreement will prevail.

EXPORT CONTROL RESTRICTIONS. Buyer represents and warrants that none of the Equipment or any components thereof, or related software or technology is being purchased for export from the United States to countries which are subject to comprehensive embargoes or support for terrorism under its Export Control Laws (e.g. Crimea - Region of Ukraine, Iran, Iraq, North Korea, Afghanistan, Democratic Republic of the Congo, Haiti, Libya, Vietnam, Somalia, Sri Lanka, Liberia, Cyprus, Zimbabwe, Lebanon, Central African Republic, Sudan, as the same may change from time to time).

TAXES. All prices are stated in U.S. Dollars and do not include any federal, state or local taxes, all of which are Buyer's responsibility and which are charged to Buyer in addition to the purchase price, and which must be paid by the Buyer along with payment of the purchase price. All foreign duties and taxes are the responsibility of the Buyer. Unless Buyer furnishes Seller with a valid tax exemption certificate, Buyer will



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pay to Seller all sales, use and other taxes on the Equipment, however designated, levied or based by any taxing authority, whenever applicable.

**SHIPMENT.** Buyer shall pay all crating, skidding, rigging, customs, freight, shipping, insurance and common carrier charges on all shipments in conjunction with Seller's chosen method of shipment of the Equipment. Shipment shall be F.O.B. Shipping Point, with all risks of loss and damage passing to Buyer as soon as the Equipment leaves Seller's dock. Seller shall not be liable to Buyer for Equipment which is damaged or lost while in transit or in the possession of a common carrier, and it shall be Buyer's responsibility to insure the Equipment and to recover any and all damage directly from such common carrier.

**DELAYS; FORCE MAJEURE.** Seller shall not be liable for delay or default in delivery and all quotations, agreements, and deliveries are subject to, and contingent upon, any cause beyond Seller's reasonable control, including but not limited to, inclement weather, acts of God, strikes, labor difficulties, riot, civil unrest, war, fire, delay or defaults of common carriers, failure or curtailment in the Seller's usual sources of supply, governmental decrees or orders, damage or destructions of goods, or any other cause beyond Seller's control (collectively, "Force Majeure Events"). Seller shall not be liable for any loss or damage arising out of delay or default in delivery and the Seller shall have the additional right, in the event of a Force Majeure Event, at its option and sole discretion, to cancel this Agreement without any resulting liability. Shipments made within 30 days after specified date of delivery shall constitute a proper deliver. Any delivery not in dispute shall be paid for regardless of other controversies relating to other delivered or undelivered Equipment.

**DISCLAIMER OF WARRANTIES.** ALL EQUIPMENT IS IN USED CONDITION AND IS SOLD BY SELLER TO BUYER "AS IS," "WHERE-IS" AND WITHOUT ANY WARRANTY WHATSOEVER. SELLER NEITHER MAKES NOR ASSUMES ANY WARRANTY, WHETHER STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, EXPRESS OR IMPLIED, WITH RESPECT TO ANY EQUIPMENT OR WITH RESPECT TO THE MERCHANTABILITY OR FITNESS OF SUCH EQUIPMENT FOR ANY PURPOSE OR ANY OTHER WARRANTIES. SELLER DOES NOT WARRANT THAT SUCH EQUIPMENT CONFORMS TO ANY PLANS OR SPECIFICATIONS OF BUYER OR OTHERS OR MEETS ANY REQUIREMENTS OF ANY COUNTRY, FEDERAL, STATE OR LOCAL LAWS, REGULATIONS OR ORDINANCES PERTAINING TO SAFETY OR INSURANCE REQUIREMENTS. BUYER ACKNOWLEDGES THAT IT WILL BE RESPONSIBLE FOR INSPECTING ALL EQUIPMENT PRIOR TO PURCHASE AND ENSURING THAT ALL EQUIPMENT PURCHASED FROM SELLER IS INSTALLED AND OPERATED IN A PROPER AND SAFE MANNER. Buyer acknowledges that the Equipment may contain technology, software, code, data, controlled items or other intellectual property, none of which is included in the Sale (collectively, "Intellectual Property"). Unless Buyer has a valid license for the Intellectual Property, as soon as reasonably practicable, Buyer agrees to "wipe," destroy or otherwise remove any and all such Intellectual Property from the Equipment.

**BUYER'S RESPONSIBILITY AND INDEMNITY.** BUYER ALSO ACKNOWLEDGES THAT IT MAY HAVE TO PURCHASE SOFTWARE, INSTALL OR CHANGE GUARDS, SAFETIES, WARNINGS OR OTHER COMPONENTS TO ENSURE THAT THE EQUIPMENT WILL CONFORM TO ALL LAWS, REGULATIONS, INSURANCE REQUIREMENTS AND INDUSTRY STANDARDS. BUYER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS SELLER AND ITS AFFILIATES FROM AND AGAINST ALL SUITS, CLAIMS, TAXES, COSTS AND EXPENSES (INCLUDING REASONABLE ATTORNEYS' FEES AND COSTS OF INVESTIGATION) ARISING OUT OF, RESULTING FROM, OR CONNECTED WITH THE SALE AND DELIVERY OF THE EQUIPMENT BY SELLER, AND ANY USE OF THE EQUIPMENT BY BUYER.

**LIMITATION OF SELLER'S LIABILITY; INDEMNIFICATION.** SELLER'S LIABILITY, WHETHER IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE), UNDER ANY WARRANTY, OR OTHERWISE, WILL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY BUYER FOR THE EQUIPMENT, AND UNDER NO CIRCUMSTANCES WILL SELLER BE LIABLE FOR SPECIAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES. NO ACTION, REGARDLESS OF FORM, ARISING OUT OF THE TRANSACTIONS UNDER THIS AGREEMENT MAY BE BROUGHT BY BUYER MORE THAN ONE YEAR AFTER THE CAUSE OF ACTION HAS ACCRUED.

**NECESSARY DOCUMENTS, GOVERNING LAW.** At Seller's request, Buyer will furnish information to Seller that, according to U.S. Federal law, Seller must report to the U.S. Customs, Drug Enforcement Administration or other governmental agency. The parties shall each deliver or cause to be delivered to the other, at such other times and places as shall be commercially reasonably agreed to, such additional instruments, and take such additional actions as can be taken without unreasonable expense, as any other may reasonably request for the purpose of carrying out this Agreement. This Agreement shall be governed by, enforced and construed according to the laws of The State of Rhode Island and Providence Plantations. The United Nations Convention on Contracts for the Sale of Goods does not apply to any sales of Equipment to Buyer.

**ARBITRATION.** The parties shall submit any and all controversies, claims, disputes and matters of difference arising out of or relating to this Agreement exclusively to arbitration in Providence County, Rhode Island in accordance with the Commercial Arbitration Rules of the American Arbitration Association from time to time in effect (the "Rules"). Notwithstanding anything to the contrary contained in this Agreement, each of the parties agrees that this Agreement evidences a transaction involving interstate commerce and that the Federal Arbitration Act applies to and governs this arbitration provision and shall preempt any inconsistent state or federal rule or law. The parties agree to grant all powers to the arbitrator to the fullest extent of the Rules. The parties may agree on a retired judge as sole arbitrator. In the absence of such agreement, there will be three arbitrators, selected in accordance with the Rules. If there are three arbitrators, a decision reached by at least two of the three arbitrators will be the decision of the arbitration panel; provided, however, that in the case of monetary damages, if there is no agreement of two arbitrators as to the amount of the award, then the highest and lowest amounts will be disregarded, and the remaining amount will be the final award of the arbitration panel. Any award of the arbitrator(s) will include costs and reasonable attorneys' fees to the prevailing party. The parties agree to abide by any decisions reached and awards rendered in such arbitration proceedings, and all such decisions and awards will be final and binding on both parties. There will be no appeal from any such decision or award other than for fraud or misconduct in





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connection with the arbitration proceedings. Judgment upon such award or decision may be entered in any court in Providence county, Rhode Island. Each of the parties consents to the exclusive jurisdiction of the state and federal courts located in the County of Providence, State of Rhode Island (and of the appropriate appellate courts therefrom) in any such action or proceeding (including an action to compel arbitration or to stay any proceeding inconsistent with this provision) and in any other action or proceeding arising out of or relating to this Agreement, including but not limited to its performance, enforcement, scope and/or interpretation, and waives any objection to venue or to the jurisdiction of such courts. Each of the parties agrees that process in any action or proceeding may be served personally or by registered mail anywhere in the world. Notwithstanding the foregoing, insofar as injunctive relief is sought in any action or proceeding initiated by any party to this Agreement, such injunctive relief may be sought in a judicial proceeding consistent with the jurisdiction and venue provisions below. If any party files a court action arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this agreement to arbitrate, to compel or stay arbitration (by petition, motion or otherwise), or to confirm, vacate or modify an arbitration award (except for a non-contested application to confirm), or to seek payment of any attorneys' fees and/or costs awarded by the arbitrator(s) but not paid by the non-prevailing party in the arbitration, or in the event any party seeks enforcement of any arbitration award or judgment arising out of an arbitration award, reasonable attorney's fees and other costs incurred by the prevailing Party in such court action or in connection with such judgment enforcement shall be reimbursed by the non-prevailing party. THE PARTIES UNDERSTAND AND AGREE THAT, ABSENT THIS AGREEMENT, THEY WOULD HAVE THE RIGHT TO SUE EACH OTHER IN COURT, AND THE RIGHT TO A JURY TRIAL, BUT THEY GIVE UP THOSE RIGHTS VOLUNTARILY AND AGREE TO RESOLVE ANY AND ALL GRIEVANCES BY ARBITRATION IN ACCORDANCE WITH THIS SECTION.

ENTIRE AGREEMENT. This Agreement and any attachments or exhibits constitute the sole and entire understanding between Buyer and Seller and supersedes all prior representations, agreements and understandings between Buyer and Seller related to the subject matter hereof, whether oral, written or otherwise. This Agreement supersedes any provisions, terms, and conditions contained on any confirmation order, purchase order or other writing the Buyer may give or receive in connection with the Equipment, and the rights of the parties shall be governed exclusively by the provisions of this Agreement.

SEVERABILITY. The provisions of this Agreement shall be severable. Should any part, term or provision of this Agreement be construed by any court of competent jurisdiction to be illegal, invalid or unenforceable for any reason, the legality, validity and enforceability of the remaining parts, terms and provisions shall not be affected thereby.

COUNTERPARTS. This Agreement may be executed in one or more counterparts, each of which will be deemed an original and all of which, taken together, will constitute one and the same agreement. Delivering signatures electronically or via facsimile shall be an acceptable means of executing this Agreement, and signatures so delivered shall be fully binding on the signing party.

NOTICES. All notices and other communications required or permitted by this Agreement will be effective on receipt and must be in writing and delivered via United States mail or a nationally recognized overnight courier service, postage prepaid and registered or certified with return receipt requested, to the addresses set forth below.







UW Operations  
Dept. 3227 • 1000 East University Avenue • Laramie, WY 82071  
(307) 766-6225 • Fax (307) 766-4040 • svskdesk@uwyo.edu

To: Tak Suyama  
From: Zac Garver  
CC:  
Date: 11/7/2024  
Re: Project# 25-12225 Physical Science room 402. Plumbing/Electrical modifications for Autoclave.

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Thank you for the opportunity to provide UW Operations services for your project. As requested, an estimate for the project "Project# 25-12225 Physical Science room 402 Plumbing /Electrical modifications for Autoclave" has been prepared based on the scope as indicated below.

The project scope for this estimate *includes*.

- Masons coring hole through floor for new floor sink, at the south end of east counter.
- Plumbers to run water line through existing cabinet for water supply, installing floor sink and glass drain piping, re-working existing piping to accommodate new drain, run all additional piping for Autoclave.
- Electricians will run new 208v-3phase circuit and 120v circuits for Autoclave.
- Customer will need to purchase the STM-E (3phase 208v model) with stand and exhaust condenser.

This estimate *excludes*.

- Any work not mentioned above.

Attached is a Request for Estimate (RFE) form for this project. Please review the scope indicated above and the estimate amount on the attached RFE and complete Part III of the RFE to authorize the project. The form is to be signed by a person authorized to commit departmental funds. Work on this project will be scheduled after receipt of the signed RFE. The estimate provided is a not to exceed price. Only the actual project cost will be billed. Any changes to project scope as stated above must be identified, estimated, and then approved by the person who signed the RFE. Should any unforeseen conditions arise during the execution of the project, you will be notified of the issue, provided with an estimate of costs associated with these unforeseen conditions and the project budget will be adjusted accordingly.

If you have any questions or concerns please contact me.

Respectfully,

Zac Garver

Project Manager

Facilities Engineering

307-766-6643

[zgarver@uwyo.edu](mailto:zgarver@uwyo.edu)





UW Operations  
Dept. 3227 • 1000 East University Avenue • Laramie, WY 82071  
(307) 766-6225 • Fax (307) 766-4040 • svskdesk@uwyo.edu

To: Tak Suyama  
From: Zac Garver  
CC:  
Date: 10/8/2024  
Re: Project# 25-12149 Cut doorway between 404 & 404 in lab spaces.

---

Thank you for the opportunity to provide UW Operations services for your project. As requested, an estimate for the project "Project# 25-12149 Cut doorway between 402 & 404 in lab spaces" has been prepared based on the scope as indicated below.

The project scope for this estimate *includes*.

- Colorado Hazard Control will abate sheetrock around new doorway area for UW Structural shop.
- UW Structural shop will frame in a new door jam, install new sheetrock and blend paint on both sides of wall, full walls will not be painted just matched back.
- BAS shop and Control shop will re-configure controls in rooms, due to new doorway.

This estimate *excludes*.

- Any work not mentioned above.

Attached is a Request for Estimate (RFE) form for this project. Please review the scope indicated above and the estimate amount on the attached RFE and complete Part III of the RFE to authorize the project. The form is to be signed by a person authorized to commit departmental funds. Work on this project will be scheduled after receipt of the signed RFE.

The estimate provided is a not to exceed price. Only the actual project cost will be billed. Any changes to project scope as stated above must be identified, estimated, and then approved by the person who signed the RFE. Should any unforeseen conditions arise during the execution of the project, you will be notified of the issue, provided with an estimate of costs associated with these unforeseen conditions and the project budget will be adjusted accordingly.

If you have any questions or concerns please contact me.

Respectfully,

Zac Garver  
Project Manager  
Facilities Engineering  
307-766-6643  
zgarver@uwyo.edu

QUOTATION			
Quote Number	Valid From	Valid To	Page
8032592068	01/03/2025	02/02/2025	1 of 1
Currency	Sales Representative	Customer Reference	
USD	Lucas Erickson		

To Place an Order	
Phone :	1-800-932-5000
Fax :	1-866-329-2897
Web :	www.vwr.com

Quote Prepared For	Contact Phone / Fax / E-Mail
Tak Suyama Chemistry	307-766-4434  tsuyama@uwyo.edu
Ship To : 80138447	Sold To : 80113760
WY UNIV OF PHYSICAL SCI BLD RM 20 16TH & GIBBON ST LARAMIE WY 82071	WY UNIV OF DEPT OF CHEMISTRY TAX EXEMPT 1000 E UNIVERSITY AVE LARAMIE WY 82071-2000

When placing your order, please include your quotation number and account number to ensure you receive the correct price.

**THANK YOU FOR THE OPPORTUNITY TO EARN YOUR BUSINESS.**

Row	Catalog Number	Product Description	Qty	UOM	Unit Price	Extended Price
10	58700-290	EXHAUST CONDENSER F/STERILMATC	1	EA	1,793.98	1,793.98
Exhaust Condenser for Sterilizer Product Link : <a href="https://us.vwr.com/store/catalog/product.jsp?catalog_number=58700-290">https://us.vwr.com/store/catalog/product.jsp?catalog_number=58700-290</a> Shipping Dimensions Weight / Size (L*W*H) per UOM : 14.000 LB / 36.000*18.000*8.000 IN UOM Component Info : EA(1items) Availability : Product Ships Directly from Manufacturer						

Item Total : 1,793.98  
Quote Total : 1,793.98

Financing Available. Contact your VWR Representative for details about flexible financing programs.

VWR International's Terms and Conditions of Sale apply. A copy is available on our website ([https://us.vwr.com/store/content/externalContentPage.jsp?path=/en\\_US/about\\_vwr\\_terms\\_conditions\\_product\\_sales.jsp](https://us.vwr.com/store/content/externalContentPage.jsp?path=/en_US/about_vwr_terms_conditions_product_sales.jsp)), or by request. Customer represents that it has read and agrees to VWR International's Terms and Conditions of Sale.

Identified stock status is based on product availability at time of the quote and may change at time of order. Delivery dates are based on standard lead times from suppliers.

Charges displayed on the quotation including freight, tax and other charges are estimates and may vary at time of order.

Any images used are not necessarily representative of any product offering from VWR International and do not constitute the basis for purchase decisions.

Customer is responsible for unloading and providing standard receiving facilities for large and/or heavy shipments. Special unloading or delivery can be arranged, provided VWR International is notified at the time of order placement. For such arrangements, please contact VWR International for a quotation. All quotes for installation assume that services related to the equipment are in place at the Customer site (including, but not limited to, gas, plumbing, electrical and ventilation) as per the equipment manufacturer's specifications prior to the installation of the equipment. Installation or other services are not included in this quotation, unless otherwise noted on the quotation.

Customer has a limited amount of time to document and report any shipping damage. Please inspect all shipments upon receipt and refer to Section 4 of VWR International's Terms and Conditions of Sale for additional information.

Items prefixed with "MISC" are subject to regulatory approval once VWR International receives acceptance from the customer. They are special order, and as such may not be returnable. Please allow 6-8 weeks delivery from the time of your first order or acceptance of this quotation.