

# Research Approval and Training Requirement Matrix

Subject	Description	Policies/Procedures	Committee/Website	Required Authorization/Forms	Required Training & Medical Surveillance	Contacts
<b>UCR Laboratories</b>	All Research (e.g. wet labs, high hazards, etc.) and Teaching Laboratories	UC Lab Safety Training UC Personal Protective Equipment (PPE) Lab Safety Manual Injury and Illness Prevention Plan	Environmental Health and Safety <a href="https://ehs.ucr.edu/laboratory">https://ehs.ucr.edu/laboratory</a>  Office of Research Integrity <a href="https://research.ucr.edu/ori">https://research.ucr.edu/ori</a>  UCR Learning Center <a href="http://ucrllearning.ucr.edu/">http://ucrllearning.ucr.edu/</a>  UC Safety Suite <a href="https://ehs.ucop.edu/">https://ehs.ucop.edu/</a>	Office of Research Integrity Protocol approval required	Laboratory Hazard Assessment Tool (LHAT) <a href="https://ehs.ucop.edu/">https://ehs.ucop.edu/</a>  Personal Protective Equipment (PPE)  Laboratory Safety Fundamentals – every 3 years  Hazardous Waste Management - annual  Fire Extinguisher – annual  <a href="#">Principal Investigator (PI) Responsibilities</a>	<b>Assistant Director, Research Safety</b> <a href="mailto:tiffany.kwok@ucr.edu">tiffany.kwok@ucr.edu</a>
<b>Vertebrate Animals</b>	Vertebrate animals Contracts involving custom antibodies or other vertebrates	Animal Use Protocol approval required prior to any use or handling of vertebrate animals  IACUC Policies: <a href="https://research.ucr.edu/policies">https://research.ucr.edu/policies</a>  IACUC Guidance: <a href="https://research.ucr.edu/guidance">https://research.ucr.edu/guidance</a>	Institutional Animal Care and Use Committee (IACUC); Office of Research Integrity <a href="https://research.ucr.edu/ori/iacuc">https://research.ucr.edu/ori/iacuc</a>	<a href="#">Animal Use Protocol</a> (3-year renewal)	Working with the UCR IACUC on-line course  Species specific video  UCR Animal Program Occupational Health Review	<b>Campus Veterinarian</b> Akiko Sato 951-827-5845  <b>IACUC Administration</b> <a href="mailto:iacuc@ucr.edu">iacuc@ucr.edu</a>
<b>Chemicals</b>	Research involving chemicals	Chemical Hygiene Plan Chemical Inventory	<a href="https://ehs.ucr.edu/laboratory/chemical-hygiene-plan">https://ehs.ucr.edu/laboratory/chemical-hygiene-plan</a>  <a href="https://ehs.ucr.edu/laboratory/chemical/chemical-inventory">https://ehs.ucr.edu/laboratory/chemical/chemical-inventory</a>	Standard Operating Procedures (SOPs)  Chemical Inventory <a href="https://ehs.ucop.edu/chemicals/">https://ehs.ucop.edu/chemicals/</a>	Additional Training may be required based on chemical used.	<b>Chemical Hygiene Officer</b> Patrick Monnig 951- 827-4254  <b>Chemical Inventory Specialist</b> Patrick Monnig 951- 827-4254  <a href="mailto:ehslaboratory@ucr.edu">ehslaboratory@ucr.edu</a>

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<b>Biohazardous Materials</b>	<p>Biohazardous and potentially biohazardous materials, including human derived materials or infectious agents (human, animal, plant) such as, bacteria, yeast, virus, prion, fungi</p> <p>Recombinant DNA (rDNA) materials and activities</p>	<p>UCR Biosafety Manual</p> <p>Institutional Biosafety Committee (IBC) Charter</p> <p>Aerosol Transmissible Disease Program</p> <p>Bloodborne Pathogens Programs</p> <p>UCR Exposure Control Plan</p> <p>Federal Select Agents Programs</p> <p>Standard Operating Procedures</p> <p>UCR Biosafety Manual</p> <p>USDA APHIS (plant materials)</p>	<p>Institutional Biosafety Committee</p> <p><a href="https://ehs.ucr.edu/ibc">https://ehs.ucr.edu/ibc</a></p>	<p><a href="#">Biological Use Authorization (BUA)</a> – 3-year renewal</p>	<p>Biosafety</p> <p>Bloodborne Pathogens (if applicable) - annual</p> <p>Hepatitis B Vaccination (for work with human blood, tissue, primary human/primate cell lines or body fluids)</p>	<p><i>Use the same contacts for all research types on this page</i></p> <p><b><u>Biosafety Officer (BSO) &amp; High Containment Lab Director (HCLD)</u></b></p> <p>Tran Phan 951-827-4246</p> <p><b><u>IBC Administration &amp; Assistant Biosafety Officer</u></b></p> <p>Nicole Perkins 951-827-1115</p> <p><a href="mailto:ehsbiosafety@ucr.edu">ehsbiosafety@ucr.edu</a></p>
<b>Select Agents</b>	<p>CDC Select Agents</p> <p>USDA High-Risk Livestock Pathogens</p>	<p>UCR Biosafety Manual</p> <p>UCR BSL-3 Biorisk Plan</p> <p>Institutional Biosafety Committee (IBC) Charter</p> <p>Aerosol Transmissible Disease Program</p> <p>Bloodborne Pathogens Programs</p> <p>Exposure Control Plan</p> <p>Federal Select Agents Program</p> <p>Dual Use Research of Concern (DURC)</p> <p>Standard Operating Procedures</p>	<p>Institutional Biosafety Committee</p> <p><a href="https://research.ucr.edu/ori/ibc">https://research.ucr.edu/ori/ibc</a></p> <p>High Containment Laboratory Oversight Group (HCLOG)</p> <p>Dual Use Research of Concern (DURC), if applicable</p>	<p><a href="#">Biological Use Authorization (BUA)</a></p> <p>BSL-3 Lab Specific Manual</p>	<p>Biosafety</p> <p>Bloodborne Pathogens - annual</p> <p>UCI BSL-3 Researcher Training</p> <p>BSL-3 Annual Training</p> <p>Medical Surveillance may be required based on agents used.</p>	<p><b><u>Biosafety Officer (BSO) &amp; High Containment Lab Director (HCLD)</u></b></p> <p>Tran Phan 951-827-4246</p> <p><b><u>IBC Administration &amp; Assistant Biosafety Officer</u></b></p> <p>Nicole Perkins 951-827-1115</p> <p><a href="mailto:ehsbiosafety@ucr.edu">ehsbiosafety@ucr.edu</a></p>

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<b>Controlled Substances</b>	Research involving regulated controlled substances (Schedule I to V)	UC Policy BFB-BUS-50: Controlled Substances  UCR Policy #850-35: Procurement, Use, and Disposal of Controlled Substances  21 CFR 1308.11-1308.15	<a href="https://ehs.ucr.edu/laboratory/chemical/controlled-substances">https://ehs.ucr.edu/laboratory/chemical/controlled-substances</a>  <a href="https://www.deadiversion.usdoj.gov/schedules/">https://www.deadiversion.usdoj.gov/schedules/</a>	Controlled Substance Use Authorization  Use Logs  Biennial Inventory	Controlled Substances	<b><u>Controlled Substances Program Administration &amp; Chemical Inventory Specialist</u></b> Patrick Monnig 951- 827-4254  <a href="mailto:ehscs@ucr.edu">ehscs@ucr.edu</a>
<b>Epinephrine Auto-Injectors</b>	Field activities needing to equip first aid kits with Epinephrine Auto-Injector	UCR EpiPen Approval for Field Activities	<a href="https://ehs.ucr.edu/laboratory/field">https://ehs.ucr.edu/laboratory/field</a>	UCR Epinephrine Auto-Injector Risk Assessment  UCR Epinephrine Auto-Injector Operation Plan  EpiPen Emergency Action Plan	CPR/AED and First Aid Training  Epinephrine Auto-Injector Training	<i>Use the same contacts for both of these research types</i>  Pamela See 951-827-5878  <a href="mailto:ehslaboratory@ucr.edu">ehslaboratory@ucr.edu</a>
<b>Field Research</b>	Research or work conducted in the field	Field Safety Plan	<a href="http://ehs.ucr.acsitefactory.com/sites/g/files/rcwecm1061/files/2019-05/2016_ucr_fieldsafetyplantemplate.pdf">http://ehs.ucr.acsitefactory.com/sites/g/files/rcwecm1061/files/2019-05/2016_ucr_fieldsafetyplantemplate.pdf</a>	Field Safety Plan  UC Away	Heat Illness Prevention training  Wilderness First Aid	
<b>Human Subjects</b>	Research involving human subjects or donated source materials	45 CFR 46	Institutional Review Board (IRB) <a href="https://research.ucr.edu/ori/irb-clin">https://research.ucr.edu/ori/irb-clin</a>	Determination of Activity form  General IRB application form and project roster  <a href="#">Biological Use Authorization (BUA) (Applicable for research with human specimens)</a>	Collaborative Institutional Training Initiative (CITI) online Human Subjects Training (May not be required depending on materials used; contact <a href="mailto:irb@ucr.edu">irb@ucr.edu</a> for information)  <b>If applicable:</b> Biosafety  Bloodborne Pathogens - annual  Hepatitis B Vaccination	<b>IRB Administration</b>  Lorraine Castro 951-827-5549  Monica Wicker 951-827-4811  <a href="mailto:irb@ucr.edu">irb@ucr.edu</a>

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<p style="text-align: center;"><b>Stem Cells</b></p>	<p>Research involving human pluripotent stem cells</p>	<p>California Department of Public Health Guidelines for Human Stem Cell Research</p> <p>California Institute for Regenerative Medicine Regulations</p> <p>UCR Biosafety Manual</p> <p>Institutional Biosafety Committee (IBC) Charter</p>	<p>Stem Cell Research Oversight Committee (SCRO)</p> <p><a href="https://research.ucr.edu/ori/scro">https://research.ucr.edu/ori/scro</a></p>	<p>Stem Cell Use Authorization (SCUA)</p> <p><a href="#">Biological Use Authorization (BUA)</a></p>	<p>Biosafety</p> <p>Bloodborne Pathogens - annual</p> <p>Hepatitis B Vaccination</p>	<p><b>SCRO / IBC Administration</b></p> <p>Sherie Donahue 951-827-4818 <a href="mailto:ibc@ucr.edu">ibc@ucr.edu</a></p> <p><b><u>Biosafety Officer (BSO) &amp; High Containment Lab Director (HCLD)</u></b></p> <p>Tran Phan 951-827-4246 <a href="mailto:ehsbiosafety@ucr.edu">ehsbiosafety@ucr.edu</a></p>
<p style="text-align: center;"><b>Conflict of Interest</b></p>	<p>Research involving conflicts of interest (COI)</p> <p>A COI is a situation where an investigator's outside financial interests bias or have the potential to bias a research project. This also applies to the immediate family</p>	<p>Policies for Non-Governmental Sponsor (State Law – 700-U), Public Health Service &amp; Organizations following PHS Regulations, and National Science Foundation &amp; Organizations following NSF Policy can be found on the Promoting Research Objectivity Committee - formerly the Conflict of Interest Committee (PRO) website:</p> <p><a href="https://research.ucr.edu/ori/pro">https://research.ucr.edu/ori/pro</a></p>	<p>Promoting Research Objectivity Committee - formerly the Conflict of Interest Committee (PRO)</p> <p><a href="https://research.ucr.edu/ori/pro">https://research.ucr.edu/ori/pro</a></p>	<p>Required forms for State Law, PHS and NSF can be found on the Promoting Research Objectivity Committee website:</p> <p><a href="https://research.ucr.edu/ori/pro">https://research.ucr.edu/ori/pro</a></p>	<p>For 700-U (State): No required training</p> <p>For PHS: Required COIR training is through the UC Learning Center system, entitled “Compliance &amp; Conflict of Interest for Researchers Briefing (COIR)”</p> <p>For NSF: No required training</p>	<p><b>PRO Administration</b></p> <p>Monica Wicker 951-827-4811 <a href="mailto:pro@ucr.edu">pro@ucr.edu</a></p>
<p style="text-align: center;"><b>Lasers</b></p>	<p>Research involving lasers</p>	<p>Laser Safety Manual</p> <p>Standard Operating Procedures (SOPs)</p>	<p>Radiation Safety Committee</p> <p><a href="https://ehs.ucr.edu/laser/">https://ehs.ucr.edu/laser/</a></p>	<p>Laser Machine Registration Application</p>	<p>Laser Safety Training</p>	<p><i>Use the same contacts for both of these research types</i></p> <p><b>Assistant Director, Radiation Safety and</b></p>

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<b>Radiation</b>	Research involving radioisotopes or radiation-producing equipment	Radiation Safety Manual Radiation Producing Machine Manual Standard Operating Procedures (SOPs)	Radiation Safety Committee <a href="https://ehs.ucr.edu/radiation/">https://ehs.ucr.edu/radiation/</a>	Radioactive Material Use Authorization (RUA)	Radiation Safety: Initial Radiation Safety: Refresher	<b>Hazardous Materials</b> Gary Bosgraaf 951-827-5748  <b>Radiation Safety Specialist</b> Ondra Carter 951-827-5529 <a href="mailto:ehsrad@ucr.edu">ehsrad@ucr.edu</a>
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Equipment	Contact Information
<p><b>Chemical Fume Hood Certification</b></p>	<p><b>Sr. Industrial Hygienist</b> Adam Lucas 951-827-5533</p> <p><b>Industrial Hygienist/PPE Coordinator</b> Patrick Naffah 951-827-5882</p> <p><a href="mailto:ehsih@ucr.edu">ehsih@ucr.edu</a></p>
<p><b>Chemical Fume Hood Repair</b></p>	<p>Submit a Facilities Service Work Order at <a href="http://fmm.ucr.edu/fmm/fwo.menu">http://fmm.ucr.edu/fmm/fwo.menu</a></p>
<p><b>Biosafety Cabinet Certification</b></p>	<p>Schedule an appointment with Technical Safety Services at (800) 877-7742</p>
<p><b>Respirators</b></p>	<p><b>Sr. Industrial Hygienist</b> Adam Lucas 951-827-5533</p> <p><b>Industrial Hygienist/PPE Coordinator</b> Patrick Naffah 951-827-5882</p> <p><a href="mailto:ehsih@ucr.edu">ehsih@ucr.edu</a></p>