

Subject	Description	Policies/Procedures	Committee/Website	Required Authorization/Forms	Required Training & Medical Surveillance	Contacts
UCR Laboratories	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>Research Safety Programs Manager</b> <a href="mailto:tiffany.kwok@ucr.edu">tiffany.kwok@ucr.edu</a>
Vertebrate Animals	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/about/policies-ucr">https://research.ucr.edu/about/policies-ucr</a>  IACUC Guidance: <a href="https://research.ucr.edu/ori/guidance">https://research.ucr.edu/ori/guidance</a>	Institutional Animal Care and Use Committee (IACUC); Office of Research Integrity <a href="https://research.ucr.edu/ori/committees/iacuc">https://research.ucr.edu/ori/committees/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>
Chemicals	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</b> Kyle Soliz 951-827-5879  <a href="mailto:ehslaboratory@ucr.edu">ehslaboratory@ucr.edu</a>

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<b>Biohazardous Materials</b>	Biohazardous and potentially biohazardous materials, including human derived materials or infectious agents (human, animal, plant) such as, bacteria, yeast, virus, prion, fungi  Recombinant DNA (rDNA) materials and activities	UCR Biosafety Manual Institutional Biosafety Committee (IBC) Charter Aerosol Transmissible Disease Program Bloodborne Pathogens Programs UCR Exposure Control Plan Federal Select Agents Programs Standard Operating Procedures UCR Biosafety Manual USDA APHIS (plant materials)	Institutional Biosafety Committee; Office of Research Integrity <a href="https://research.ucr.edu/ori/committees/ibc">https://research.ucr.edu/ori/committees/ibc</a>	<a href="#">Biological Use Authorization (BUA)</a> – 3-year renewal	Biosafety Bloodborne Pathogens (if applicable) - annual  Hepatitis B Vaccination (for work with human blood, tissue, primary human/primate cell lines or body fluids)	<p><i>Use the same contacts for all research types on this page</i></p> <p><b><u>IBC Administration</u></b> Sherie Donahue 951-827-4814  Ian Naftzger 951-827-5524 <a href="mailto:ibc@ucr.edu">ibc@ucr.edu</a></p> <p><b><u>Acting Biosafety Officer (BSO) &amp; BSL-3 Labs</u></b> Tran Phan 951-827-4246 <a href="mailto:ehsbiosafety@ucr.edu">ehsbiosafety@ucr.edu</a></p>
<b>Select Agents</b>	CDC Select Agents USDA High-Risk Livestock Pathogens	UCR Biosafety Manual UCR BSL-3 Biorisk Plan Institutional Biosafety Committee (IBC) Charter Aerosol Transmissible Disease Program Bloodborne Pathogens Programs Exposure Control Plan Federal Select Agents Program Dual Use Research of Concern (DURC) Standard Operating Procedures	Institutional Biosafety Committee <a href="https://research.ucr.edu/ori/committees/ibc">https://research.ucr.edu/ori/committees/ibc</a> High Containment Laboratory Oversight Group (HCLOG)  Dual Use Research of Concern (DURC), if applicable	<a href="#">Biological Use Authorization (BUA)</a> BSL-3 Lab Specific Manual	Biosafety Bloodborne Pathogens - annual UCI BSL-3 Researcher Training BSL-3 Annual Training  Medical Surveillance may be required based on agents used.	<p><b><u>Acting Biosafety Officer (BSO) &amp; BSL-3 Labs</u></b> Tran Phan 951-827-4246 <a href="mailto:ehsbiosafety@ucr.edu">ehsbiosafety@ucr.edu</a></p>

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Controlled Substances	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>EH&amp;S</b> Kyle Soliz 951-827-5879 <a href="mailto:ehscs@ucr.edu">ehscs@ucr.edu</a>
Epinephrine Auto-Injectors	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	<b>Use the same contacts for both of these research types</b>  Pamela See 951-827-5878 <a href="mailto:ehslaboratory@ucr.edu">ehslaboratory@ucr.edu</a>
Field Research	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	
Human Subjects	Research involving human subjects or donated source materials	45 CFR 46	Institutional Review Board (IRB) <a href="https://research.ucr.edu/ori/committees/IRB-Clin">https://research.ucr.edu/ori/committees/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  Heather Fonteno 951-827-3690  Monica Wicker 951-827-4811 <a href="mailto:irb@ucr.edu">irb@ucr.edu</a>

# Research Approval and Training Requirement Matrix

<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)  <a href="https://research.ucr.edu/ori/committees/scro">https://research.ucr.edu/ori/committees/scro</a></p>	<p>Stem Cell Use Authorization (SCUA)  <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>Acting Biosafety Officer (BSO)</b>            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:  <a href="https://research.ucr.edu/ori/committees/pro">https://research.ucr.edu/ori/committees/pro</a></p>	<p>Promoting Research Objectivity Committee - formerly the Conflict of Interest Committee (PRO)  <a href="https://research.ucr.edu/ori/committees/pro">https://research.ucr.edu/ori/committees/pro</a></p>	<p>Required forms for State Law, PHS and NSF can be found on the Promoting Research Objectivity Committee website:  <a href="https://research.ucr.edu/ori/committees/pro">https://research.ucr.edu/ori/committees/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</p> <p>Heather Fonteno            951-827-3690  <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  <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><b>Use the same contacts for both of these research types</b></p> <p><b>Radiation Safety Officer</b>            Bryan Ruiz (Interim)            951-827-5748</p>
<p style="text-align: center;"><b>Radiation</b></p>	<p>Research involving radioisotopes or radiation-producing equipment</p>	<p>Radiation Safety Manual</p> <p>Radiation Producing Machine Manual</p> <p>Standard Operating Procedures (SOPs)</p>	<p>Radiation Safety Committee  <a href="https://ehs.ucr.edu/radiation/">https://ehs.ucr.edu/radiation/</a></p>	<p>Radioactive Material Use Authorization (RUA)</p>	<p>Radiation Safety: Initial</p> <p>Radiation Safety: Refresher</p>	<p><b>Radiation Safety Specialist</b>            Ondra Carter            951-827-5529</p>

Equipment	Contact Information
<b>Chemical Fume Hood Certification</b>	Tiffany Kwok <a href="mailto:tiffany.kwok@ucr.edu">tiffany.kwok@ucr.edu</a>
<b>Chemical Fume Hood Repair</b>	Submit a Facilities Service Work Order at <a href="http://fmm.ucr.edu/fmm/fwo.menu">http://fmm.ucr.edu/fmm/fwo.menu</a>
<b>Biosafety Cabinet Certification</b>	Schedule an appointment with Technical Safety Services at (800) 877-7742
<b>Respirators</b>	<b>Sr. Industrial Hygienist</b> Adam Lucas 951-827-5533 <a href="mailto:ehsih@ucr.edu">ehsih@ucr.edu</a>