

Subject	Description	Policies/Procedures	Committee/Website	Required Authorization/Forms	Required Training & Medical Surveillance	Contacts
<p align="center">UCR Laboratories</p>	<p>All Research (e.g. wet labs, high hazards, etc.) and Teaching Laboratories</p>	<p>UC Lab Safety Training https://policy.ucop.edu/doc/3500598/LabSafetyTraining</p> <p>UC Personal Protective Equipment (PPE) https://policy.ucop.edu/doc/3500597/PersonalProtectiveEquip</p> <p>Lab Safety Manual https://ehs.ucr.edu/laboratory/laboratory_safetymanual</p> <p>Chemical Hygiene Plan https://ehs.ucr.edu/laboratory/chemical-hygiene-plan</p> <p>Instructional Laboratories https://ehs.ucr.edu/laboratory/instructional</p>	<p>Environmental Health and Safety https://ehs.ucr.edu/laboratory</p> <p>Office of Research Compliance https://research.ucr.edu/orc</p> <p>UCR Learning Center http://ucrllearning.ucr.edu/</p> <p>Risk and Safety Solutions https://app.riskandsafety.com/</p>	<p>Office of Research Compliance</p> <p>Protocol approval required</p> <p>Laboratory Hazard Assessment Tool (LHAT) https://app.riskandsafety.com/</p>	<p>Personal Protective Equipment (PPE)</p> <p>Laboratory Safety Fundamentals – every 3 years</p> <p>Hazardous Materials and Waste Management - annual</p> <p>Fire Extinguisher – annual</p> <p>Principal Investigator (PI) Responsibilities</p>	<p>Director, Research Safety tiffany.kwok@ucr.edu ehslaboratory@ucr.edu</p>
<p align="center">Vertebrate Animals</p>	<p>Vertebrate animals</p> <p>Contracts involving custom antibodies or other vertebrates</p>	<p>Animal Use Protocol approval required prior to any use or handling of vertebrate animals</p> <p>IACUC Policies: https://research.ucr.edu/policies</p> <p>IACUC Guidance: https://research.ucr.edu/guidance</p>	<p>Institutional Animal Care and Use Committee (IACUC); Office of Research Compliance https://research.ucr.edu/orc/iacuc</p>	<p>Animal Use Protocol (3-year renewal)</p>	<p>Working with the UCR IACUC on-line course</p> <p>Species specific video</p> <p>UCR Animal Program Occupational Health Review</p>	<p>Campus Veterinarian Akiko Sato 951-827-5845</p> <p>IACUC Administration iacuc@ucr.edu</p>

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<p>Chemicals</p>	<p>Research involving chemicals</p>	<p>Chemical Hygiene Plan Chemical Inventory</p>	<p>https://ehs.ucr.edu/laboratory/chemical-hygiene-plan https://ehs.ucr.edu/laboratory/chemical/chemical-inventory</p>	<p>Standard Operating Procedures (SOPs) Chemical Inventory https://app.riskandsafety.com/chemicals/</p>	<p>Additional Training may be required based on chemical used.</p>	<p><u>Chemical Hygiene Officer</u> Patrick Monnig 951- 827-4254 <u>Associate Chemical Hygiene Officer</u> Erika de Guzman 951- 827-5882 ehslaboratory@ucr.edu</p>
<p>Biohazardous Materials</p>	<p>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</p>	<p>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)</p>	<p>Institutional Biosafety Committee https://ehs.ucr.edu/ibc</p>	<p>Biological Use Authorization (BUA) – 3-year renewal</p>	<p>Aerosol Transmissible Disease (ATD) Biosafety Bloodborne Pathogens (if applicable) - annual Hepatitis B Vaccination (for work with human blood, tissue, primary human/primate cell lines or body fluids)</p>	<p><u>Biosafety Officer (BSO) & High Containment Lab Director (HCLD)</u> Tran Phan 951-827-4246 <u>IBC Administration & Associate Biosafety Officer</u> Pranee Pairs 951-827-8713 ehsbiosafety@ucr.edu</p>

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Select Agents	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 https://ehs.ucr.edu/ibc High Containment Laboratory Oversight Group (HCLOG) Dual Use Research of Concern (DURC), if applicable	Biological Use Authorization (BUA) BSL-3 Lab Specific Manual	Aerosol Transmissible Disease (ATD) Biosafety Bloodborne Pathogens - annual UCI BSL-3 Researcher Training BSL-3 Annual Training Medical Surveillance may be required based on agents used.	<u>Biosafety Officer (BSO) & High Containment Lab Director (HCLD)</u> Tran Phan 951-827-4246 <u>IBC Administration & Associate Biosafety Officer</u> Pranee Pairs 951-827-8713 ehsbiosafety@ucr.edu
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	https://ehs.ucr.edu/laboratory/chemical/controlled-substances https://www.dea.gov/divisions/office-of-forensic-science/schedules/	Controlled Substance Use Authorization Use Logs Biennial Inventory	Controlled Substances	<u>Controlled Substances Program Administration</u> Travis Underwood 951- 827-5518 ehscs@ucr.edu
Epinephrine Auto-Injectors	Field activities needing to equip first aid kits with Epinephrine Auto-Injector	UCR EpiPen Approval for Field Activities	https://ehs.ucr.edu/laboratory/field	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	<u>Research Safety Specialist</u> Pamela See 951-827-5878 ehslaboratory@ucr.edu

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Field Research	Research or work conducted in the field	Field Safety Plan	https://ehs.ucr.edu/laboratory/field-safety-plan	Field Safety Plan UC Away	Heat Illness Prevention training Wilderness First Aid	Research Safety Specialist Pamela See 951-827-5878 ehslaboratory@ucr.edu
Human Subjects	Research involving human subjects or donated source materials	45 CFR 46	Institutional Review Board (IRB) https://research.ucr.edu/orc/irb-clin	Determination of Activity form General IRB application form and project roster IRB Application	Collaborative Institutional Training Initiative (CITI) online Human Subjects Training (May not be required depending on materials used; contact irb@ucr.edu for information) If applicable: Biosafety Bloodborne Pathogens - annual Hepatitis B Vaccination	IRB Administration Lorraine Castro 951-827-5549 Monica Wicker 951-827-4811 irb@ucr.edu
Stem Cells	Research involving human pluripotent stem cells	California Department of Public Health Guidelines for Human Stem Cell Research California Institute for Regenerative Medicine Regulations UCR Biosafety Manual Institutional Biosafety Committee (IBC) Charter	Stem Cell Research Oversight Committee (SCRO) https://research.ucr.edu/orc/scro	Stem Cell Use Authorization (SCUA)	Biosafety Bloodborne Pathogens - annual Hepatitis B Vaccination	SCRO / IBC Administration Sherie Donahue 951-827-4818 scro@ucr.edu Biosafety Officer (BSO) & High Containment Lab Director (HCLD) Tran Phan 951-827-4246 ehsbiosafety@ucr.edu

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Conflict of Interest	<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 & Organizations following PHS Regulations, and National Science Foundation & Organizations following NSF Policy can be found on the Conflict of Interest Committee (COI) website:</p> <p>https://research.ucr.edu/orc/coi</p>	<p>Conflict of Interest Committee</p> <p>https://research.ucr.edu/orc/coi</p>	<p>Required forms for State Law, PHS and NSF can be found on the Conflict of Interest Committee website:</p> <p>https://research.ucr.edu/orc/coi</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 & Conflict of Interest for Researchers Briefing (COIR)”</p> <p>For NSF: No required training</p>	<p>COI Administration</p> <p>Monica Wicker 951-827-4811 coi@ucr.edu</p>
Lasers	<p>Research involving lasers</p>	<p>Laser Safety Manual</p> <p>Standard Operating Procedures (SOPs)</p>	<p>Radiation Safety Committee</p> <p>https://ehs.ucr.edu/laboratory/laser</p>	<p>Laser Machine Registration Application</p> <p>https://ehs.ucr.edu/laboratory/laser#manuals-standards-resources</p>	<p>Laser Safety Training</p>	<p><i>Use the same contacts for both of these research types</i></p> <p>Director, Radiation Safety James Cook ehsrad@ucr.edu</p>
Radiation	<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</p> <p>https://ehs.ucr.edu/laboratory/radiation</p>	<p>Radioactive Material Use Authorization (RUA)</p>	<p>Radiation Safety: Initial</p> <p>Radiation Safety: Refresher</p>	<p>Radiation Safety Specialist Ondra Carter 951-827-5529 ehsrad@ucr.edu</p>

Equipment	Contact Information
<p>Chemical Fume Hood Certification</p>	<p>Sr. Industrial Hygienist Mark Atwood 951-827-0044</p> <p>Industrial Hygiene Specialist Rebecca Reece 951-827-5518</p> <p>ehsih@ucr.edu</p>
<p>Chemical Fume Hood Repair</p>	<p>Submit a Facilities Service Work Order at https://facilities.ucr.edu/requests</p>
<p>Biosafety Cabinet Certification</p>	<p>Schedule an appointment with Technical Safety Services at (800) 877-7742</p>
<p>Respirators</p>	<p>Sr. Industrial Hygienist Mark Atwood 951-827-0044</p> <p>Industrial Hygienist Specialist Rebecca Reece 951-827-5518</p> <p>ehsih@ucr.edu</p>