

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 https://ehs.ucr.edu/ Office of Research Integrity https://research.ucr.edu/ORI UCR Learning Center http://ucrllearning.ucr.edu/ UC Safety Suite https://ehs.ucop.edu/lhat	Office of Research Integrity Protocol approval required	Laboratory Hazard Assessment Tool (LHAT) https://ehs.ucop.edu/lhat Personal Protective Equipment (PPE) Laboratory Safety Orientation (fundamentals) – every 3 years Hazardous Waste Management Fire Extinguisher – annual Principal Investigator (PI) Responsibilities	Research Safety Programs Manager tiffany.kwok@ucr.edu
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: https://research.ucr.edu/about/policies-ucr IACUC Guidance: https://research.ucr.edu/ori/guidance	Institutional Animal Care and Use Committee (IACUC); Office of Research Integrity https://research.ucr.edu/ori/committees/iacuc	Animal Use Protocol (3-year renewal)	Working with the UCR IACUC on-line course Species specific video UCR Animal Program Occupational Health Review	Campus Veterinarian Akiko Sato 951-827-5845 IACUC Administration iacuc@ucr.edu
Chemicals	Research involving chemicals	Chemical Hygiene Plan Chemical Inventory	https://ehs.ucr.edu/laboratory/CHP/currentchps.html	Standard Operating Procedures (SOPs) Chemical Inventory https://ehs.ucop.edu/chemicals/	Additional Training may be required based on chemical used.	EH&S Lab Safety ehslaboratory@ucr.edu Chemical Inventory Kyle Soliz 951-827-5879

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Biohazardous Materials	<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; Office of Research Integrity</p> <p>https://research.ucr.edu/ori/committees/ibc</p>	<p>Biological Use Authorization (BUA) – 3-year renewal</p>	<p>Biosafety</p> <p>Bloodborne Pathogens (if applicable)</p> <p>Hepatitis B Vaccination (for work with human blood, tissue, primary human/primate cell lines or body fluids)</p>	<p style="text-align: center;"><i>Use the same contacts for all research types on this page</i></p> <p><u>IBC Administration</u></p> <p>Sherie Donahue 951-827-4814</p> <p>Ian Naftzger 951-827-5524</p> <p>ibc@ucr.edu</p>
Select Agents	<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>https://research.ucr.edu/ori/committees/ibc</p> <p>High Containment Laboratory Oversight Group (HCLOG)</p> <p>Dual Use Research of Concern (DURC), if applicable</p>	<p>Biological Use Authorization (BUA)</p> <p>BSL-3 Lab Specific Manual</p>	<p>Biosafety</p> <p>Bloodborne Pathogens</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>Biosafety Officer (BSO): Nicholas Noriea 951-827-5119</p> <p>ehslaboratory@ucr.edu</p> <p><u>BSL-3</u></p> <p>Tran Phan 951-827-4246</p> <p>ehslaboratory@ucr.edu</p>

Research Approval and Training Requirement Matrix

Subject	Description	Policies/Procedures	Committee/Website	Required Authorization/Forms	Required Training & Medical Surveillance	Contacts
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/controlledsubstances/index.html https://www.deadiversion.usdoj.gov/schedules/	Controlled Substance Use Authorization Use Logs Biennial Inventory	Controlled Substances	EH&S Kyle Soliz 951-827-5879 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	Use the same contacts for both of these research types Pamela See 951-827-5878
Field Research	TBD	Field Safety Plan	http://ehs.ucr.acsitefactory.com/sites/g/files/rcwecm1061/files/2019-05/2016_ucr_fieldsafetyplantemplate.pdf	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) https://research.ucr.edu/ori/committees/IRB-Clin	Determination of Activity form General IRB application form and project roster Biological Use Authorization (BUA) (Applicable for research with human specimens)	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 Hepatitis B Vaccination	IRB Administration Lorraine Castro 951-827-5549 Heather Fonteno 951-827-3690 Monica Wicker 951-827-4811 irb@ucr.edu

Research Approval and Training Requirement Matrix

<p style="text-align: center;">Stem Cells</p>	<p>Research involving human pluripotent stem cells</p>	<p>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</p>	<p>Stem Cell Research Oversight Committee (SCRO) https://research.ucr.edu/ori/committees/scro</p>	<p>Stem Cell Use Authorization (SCUA) Biological Use Authorization (BUA)</p>	<p>Biosafety Bloodborne Pathogens Training Hepatitis B Vaccination</p>	<p>SCRO / IBC Administration Sherie Donahue 951-827-4818 ibc@ucr.edu Biosafety Officer (BSO) Nicholas Noriea 951-827-5119 ehslaboratory@ucr.edu</p>
<p style="text-align: center;">Conflict of Interest</p>	<p>Research involving conflicts of interest (COI) 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 Promoting Research Objectivity Committee - formerly the Conflict of Interest Committee (PRO) website: https://research.ucr.edu/ori/committees/pro</p>	<p>Promoting Research Objectivity Committee - formerly the Conflict of Interest Committee (PRO) https://research.ucr.edu/ori/committees/pro</p>	<p>Required forms for State Law, PHS and NSF can be found on the Promoting Research Objectivity Committee website: https://research.ucr.edu/ori/committees/pro</p>	<p>For 700-U (State): No required training For PHS: Required COIR training is through the UC Learning Center system, entitled "Compliance & Conflict of Interest for Researchers Briefing (COIR)" For NSF: No required training</p>	<p>PRO Administration Monica Wicker 951-827-4811 Heather Fonteno 951-827-3690 pro@ucr.edu</p>
<p style="text-align: center;">Lasers</p>	<p>Research involving lasers</p>	<p>Laser Safety Manual Standard Operating Procedures (SOPs)</p>	<p>Radiation Safety Committee https://ehs.ucr.edu/laser/</p>	<p>Laser Machine Registration Application</p>	<p>Laser Safety Training</p>	<p style="text-align: center;"><i>Use the same contacts for both of these research types</i></p> <p>Radiation Safety Officer Karen Janiga 951-827-5748 Radiation Safety Specialist Ondra Carter 951-827-5529</p>
<p style="text-align: center;">Radiation</p>	<p>Research involving radioisotopes or radiation-producing equipment</p>	<p>Radiation Safety Manual Radiation Producing Machine Manual Standard Operating Procedures (SOPs)</p>	<p>Radiation Safety Committee https://ehs.ucr.edu/radiation/</p>	<p>Radioactive Material Use Authorization (RUA)</p>	<p>Radiation Safety: Initial Radiation Safety: Refresher</p>	<p>Radiation Safety Specialist Ondra Carter 951-827-5529</p>

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