**IACUC approved Continuing Education Training Materials for 2021\***

1. **Attend the IACUC Annual Training Meeting, January 29, 2021**

**2. Labroots Lab Animal Sciences 2020**

<https://www.labroots.com/ms/virtual-event/laboratory-animal-sciences-2020/agenda>

* Automatic Detection and Classification of Behavior in Laboratory Animals
* Comparison of the Impact of Phlebotomy Method on Physiologic and Behavioral Metrics of Pain and Distress in Mice
* Compassion Fatigue: Education and Engagement in Animal Research
* Data Collection as Environmental Enrichment: Automated Behavioral Measurement in Voluntary Home Cage Operant Tasks
* Evaluation of Analgesia Efficacy in Postoperative Mice Using Novel Cage-Side Measures
* The Digitalization of the Vivarium: Past and Present Initiatives that Optimize Animal Care and Welfare
* Tissue Chips: Building Confidence Through Independent Experimental
* Testing Embracing biological variation to improve reproducibility and reduce animals
* Sex bias in preclinical research, why it exists and how to drive change
* Experimental design and the reproducibility crisis: pitfalls, power, and practical best practice
* Transparent, reliable and reproducible animal research: the ARRIVE guidelines

**3. Complete an OLAW On-line Seminar or Podcast**

<https://olaw.nih.gov/education/webinars-and-podcasts>

Options that are new for 2019 and 2020:

* Building a Research Occupational Health Program
* Pandemic Contingency Planning and Its Impact on Animal Care
* COVID-19 Pandemic Response Resources and FAQs for Animal Care and Use Programs
* Animal Research and Public Support: A 2020 Vision for Strategic Communications and Micro-Messaging
* Update to the Reporting Period of the Annual Report to OLAW
* Update on the AVMA Guidelines for the Euthanasia of Animals: 2020 Edition

21st Century Cures Act: Next Steps

* Application of the AVMA Guidelines for the Depopulation of Animals to Biomedical Research
* The 4th R: Rehoming, Retirement and Release
* Superstar Rats Teach Empathy to Researchers

**4. AALAS or PRIMR Webinars:**

<https://www.aalas.org/education>

* [**Addressing Breeding Problems in Mice**](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fr20.rs6.net%2Ftn.jsp%3Ff%3D0014-4G_NI3aFPlug8LZh4jutrK2wwr--H1okvYFKNJCCMMlz-6F01VM-u4hm-BoDB9HfqUOvEq3pnSt68UotsluFzIdaM9bNpTkF5p4allciP6GpbgeI6IdBdQSRyVpb3nvFxw_VMnFlfp38e-5KjHdhdjOvi1finB3c7eorYH3h9xjCbtZ3MOSLf5yQI3TE--%26c%3D3vE-u_lsbenQE7Hn9VjXhaLlKjkcXFENVmif4fFvD4nFlvBOcGKvqg%3D%3D%26ch%3DEnAXFI7xfy4LuIIchzyCkhCQwQgu3ZFiUpj_kLeLXu_Eq4Lzem6vhw%3D%3D&data=02%7C01%7Cberri%40uwm.edu%7C4c7321c21fb648f4c9c308d7f10e2970%7C0bca7ac3fcb64efd89eb6de97603cf21%7C1%7C0%7C637242915444988897&sdata=JUHIDyMB4CksPW6L6oSdKRKfQas8SeD8WVrbZTu%2FEzY%3D&reserved=0)
* [**Behavioral Management of Nonhuman Primates in Research Colonies**](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fr20.rs6.net%2Ftn.jsp%3Ff%3D0014-4G_NI3aFPlug8LZh4jutrK2wwr--H1okvYFKNJCCMMlz-6F01VM2oEK0AwRsqk2KVfo--eJcLnSbOIO-FroVzMngZF8E5jxyZ8aXRP0VrAfqpDDNoj3bks0QN5TMeBQY62FS4r-D160O64alXumMw3op5h6C6f92nfxALthQskKNo9Vcd__fwu4an0qeKG%26c%3D3vE-u_lsbenQE7Hn9VjXhaLlKjkcXFENVmif4fFvD4nFlvBOcGKvqg%3D%3D%26ch%3DEnAXFI7xfy4LuIIchzyCkhCQwQgu3ZFiUpj_kLeLXu_Eq4Lzem6vhw%3D%3D&data=02%7C01%7Cberri%40uwm.edu%7C4c7321c21fb648f4c9c308d7f10e2970%7C0bca7ac3fcb64efd89eb6de97603cf21%7C1%7C0%7C637242915444998889&sdata=a7hXGKAyxRx6QTzvrPMa4aucKl3wkw24WV8303PT0%2FM%3D&reserved=0)
* [**Compassion Fatigue and Compassion Satisfaction in the Workplace**](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fr20.rs6.net%2Ftn.jsp%3Ff%3D0014-4G_NI3aFPlug8LZh4jutrK2wwr--H1okvYFKNJCCMMlz-6F01VM2oEK0AwRsqkCNEmZ9bS2_7W9RBbyEk7xbrWi4_s4qclnb4q-mqX2j7h10T2AC5KFenpBB9E56MQBFP6jfgszhn2Tt54IURXyX-SGbxdjmXkEOhAt9Ny9OWAaRs4OXTXLSk-74yziax1%26c%3D3vE-u_lsbenQE7Hn9VjXhaLlKjkcXFENVmif4fFvD4nFlvBOcGKvqg%3D%3D%26ch%3DEnAXFI7xfy4LuIIchzyCkhCQwQgu3ZFiUpj_kLeLXu_Eq4Lzem6vhw%3D%3D&data=02%7C01%7Cberri%40uwm.edu%7C4c7321c21fb648f4c9c308d7f10e2970%7C0bca7ac3fcb64efd89eb6de97603cf21%7C1%7C0%7C637242915444998889&sdata=nX5iOIXPqdnUTzX0TuhgAEdadHMlZJA4oWzN7Ll6RMk%3D&reserved=0)
* [**Easy Ergonomic Tactics**](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fr20.rs6.net%2Ftn.jsp%3Ff%3D0014-4G_NI3aFPlug8LZh4jutrK2wwr--H1okvYFKNJCCMMlz-6F01VM2oEK0AwRsqk0UNTsaLvMx0EHrITCjeCSKGZyzIZ5fVCu184yVZ9RyA0FMLXKKDmrVy5hsCEIzdHstSMwFyXX-XuDUEfJoRkq1hb4hRrNVTLy8q4HhO3mfPOX1asFYmCInFvT_RcC1wh%26c%3D3vE-u_lsbenQE7Hn9VjXhaLlKjkcXFENVmif4fFvD4nFlvBOcGKvqg%3D%3D%26ch%3DEnAXFI7xfy4LuIIchzyCkhCQwQgu3ZFiUpj_kLeLXu_Eq4Lzem6vhw%3D%3D&data=02%7C01%7Cberri%40uwm.edu%7C4c7321c21fb648f4c9c308d7f10e2970%7C0bca7ac3fcb64efd89eb6de97603cf21%7C1%7C0%7C637242915445008885&sdata=8Jb82JcPWsVhQy14Hfp7fICkZ3H%2BLOVAMe%2B5j124wUY%3D&reserved=0)
* [**Evidence-Based Pain Management**](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fr20.rs6.net%2Ftn.jsp%3Ff%3D0014-4G_NI3aFPlug8LZh4jutrK2wwr--H1okvYFKNJCCMMlz-6F01VM2oEK0AwRsqk2aYXILXvl79LPzs_YgUd8YbUOu-THyNdA2G7Wgo_33IYiUQ_jsmCjLWBybMcZrm7VG3XwIgFBagpIS3FbdAGURgZunBH9xVepy4sLSnHYl80dJ_K79Q5uZJsDCSqY_H1%26c%3D3vE-u_lsbenQE7Hn9VjXhaLlKjkcXFENVmif4fFvD4nFlvBOcGKvqg%3D%3D%26ch%3DEnAXFI7xfy4LuIIchzyCkhCQwQgu3ZFiUpj_kLeLXu_Eq4Lzem6vhw%3D%3D&data=02%7C01%7Cberri%40uwm.edu%7C4c7321c21fb648f4c9c308d7f10e2970%7C0bca7ac3fcb64efd89eb6de97603cf21%7C1%7C0%7C637242915445008885&sdata=642Qk%2FNuayiUbmNUZRaMAhQYEE%2BLLTavL5ph%2BMkLuag%3D&reserved=0)
* [**The Laboratory Animal-Human Bond: Numbers, Names, and Games**](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fr20.rs6.net%2Ftn.jsp%3Ff%3D0014-4G_NI3aFPlug8LZh4jutrK2wwr--H1okvYFKNJCCMMlz-6F01VM2oEK0AwRsqkAqUj2XX0Po-ACLOUpImYSFO4QSyhDHrfhQDt_hDNflmlyt1P5lpXYvE7z12545fEnnexH3vhNH5PKyj2cCYtnVQgT3UvM3RzQcOHUKjZk3vp2VwIJblW83dpYMXJPMMF%26c%3D3vE-u_lsbenQE7Hn9VjXhaLlKjkcXFENVmif4fFvD4nFlvBOcGKvqg%3D%3D%26ch%3DEnAXFI7xfy4LuIIchzyCkhCQwQgu3ZFiUpj_kLeLXu_Eq4Lzem6vhw%3D%3D&data=02%7C01%7Cberri%40uwm.edu%7C4c7321c21fb648f4c9c308d7f10e2970%7C0bca7ac3fcb64efd89eb6de97603cf21%7C1%7C0%7C637242915445018879&sdata=jGoaticUxaLCsx%2FxgEMAf3pMoo9HXtP8noE96UBm8Ec%3D&reserved=0)
* [**Metabolic Imaging Studies: Physiological Effects of Animal Handling and Housing**](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fr20.rs6.net%2Ftn.jsp%3Ff%3D0014-4G_NI3aFPlug8LZh4jutrK2wwr--H1okvYFKNJCCMMlz-6F01VM7D1rj-FRwXdXSX7wntB3v0mxKiitDRAN25_FzLbr-L6ryAsX-XIJ-RVh-sznoRaxLkEGXtpzycgIZdxpYWMBHYTtGuZOxIVVIhR8IpAQIXzhv11PI1d-L6NEw8QUdtEXYfi6fb1NoF6%26c%3D3vE-u_lsbenQE7Hn9VjXhaLlKjkcXFENVmif4fFvD4nFlvBOcGKvqg%3D%3D%26ch%3DEnAXFI7xfy4LuIIchzyCkhCQwQgu3ZFiUpj_kLeLXu_Eq4Lzem6vhw%3D%3D&data=02%7C01%7Cberri%40uwm.edu%7C4c7321c21fb648f4c9c308d7f10e2970%7C0bca7ac3fcb64efd89eb6de97603cf21%7C1%7C0%7C637242915445018879&sdata=WU4LqZBtHFCXMgj90tQNWfZOxUqFrzWQTA1hn%2Fs6L74%3D&reserved=0)
* [**Personal Accountability: YOU are the One in Charge!**](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fr20.rs6.net%2Ftn.jsp%3Ff%3D0014-4G_NI3aFPlug8LZh4jutrK2wwr--H1okvYFKNJCCMMlz-6F01VM2oEK0AwRsqkW8-Fq9MmjtqbQRSX7PvL_18aeKj0trjeKOMBczlHn86Sj0kw2189xqo_vpuWS6QrA5aX6t8xlcybVx7N_OvrO5vCKTGj89_G-IexnFu0T32PBSg171_Mz6OH48WdWz1K%26c%3D3vE-u_lsbenQE7Hn9VjXhaLlKjkcXFENVmif4fFvD4nFlvBOcGKvqg%3D%3D%26ch%3DEnAXFI7xfy4LuIIchzyCkhCQwQgu3ZFiUpj_kLeLXu_Eq4Lzem6vhw%3D%3D&data=02%7C01%7Cberri%40uwm.edu%7C4c7321c21fb648f4c9c308d7f10e2970%7C0bca7ac3fcb64efd89eb6de97603cf21%7C1%7C0%7C637242915445028877&sdata=%2FSfK8C8Q%2Bkm1Rpcy%2F1UPj%2FX%2F5Z2AYMaXj5JL91Fz8UQ%3D&reserved=0)
* [**Reproducibility of Animal Models**](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fr20.rs6.net%2Ftn.jsp%3Ff%3D0014-4G_NI3aFPlug8LZh4jutrK2wwr--H1okvYFKNJCCMMlz-6F01VM2oEK0AwRsqkFxndqJ4m6ODPtaIsNhfLBHjZR_8BB0S9AZMTP7gXMlFD4pbHgHyj4V5_FYycl2DSavlpTRghKT2iBdaTaSZ4QKceW7isOg8ldrtmokwKvSj0rWBijqTZyH08_b3WTz2M%26c%3D3vE-u_lsbenQE7Hn9VjXhaLlKjkcXFENVmif4fFvD4nFlvBOcGKvqg%3D%3D%26ch%3DEnAXFI7xfy4LuIIchzyCkhCQwQgu3ZFiUpj_kLeLXu_Eq4Lzem6vhw%3D%3D&data=02%7C01%7Cberri%40uwm.edu%7C4c7321c21fb648f4c9c308d7f10e2970%7C0bca7ac3fcb64efd89eb6de97603cf21%7C1%7C0%7C637242915445028877&sdata=mTLkLUNNYFoIE00BS7z61t4dpOR%2Fa0uHv65K41e5N8Q%3D&reserved=0)
* [**Rescue Strategies for Lines of Genetically Engineered Mice**](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fr20.rs6.net%2Ftn.jsp%3Ff%3D0014-4G_NI3aFPlug8LZh4jutrK2wwr--H1okvYFKNJCCMMlz-6F01VM34TWHU64tg9y2QUO2cwii9rGcgUxGS82XLWS5RpQNLL1P32OIcLQWLCeApJZveYKUORP5OwYVnCWB3rR0l-XcemFZs5xSqyuYpXmyXjsxLy0fdwxSe1quiiG6y6eJo2roAM8XkeDcnb%26c%3D3vE-u_lsbenQE7Hn9VjXhaLlKjkcXFENVmif4fFvD4nFlvBOcGKvqg%3D%3D%26ch%3DEnAXFI7xfy4LuIIchzyCkhCQwQgu3ZFiUpj_kLeLXu_Eq4Lzem6vhw%3D%3D&data=02%7C01%7Cberri%40uwm.edu%7C4c7321c21fb648f4c9c308d7f10e2970%7C0bca7ac3fcb64efd89eb6de97603cf21%7C1%7C0%7C637242915445038867&sdata=sLNrq0KPqDwFGa5P%2F56K2M0h3yneLAOexMawK6DPsZk%3D&reserved=0)

**5. Zebrafish Husbandry Association**

<https://www.izfs.org/education/webinars>

**Complimentary ZHA Special Registration Code to Register for IZFS Webinars:**

1. Visit [www.izfs.org/education/webinars](https://zhaonline.us3.list-manage.com/track/click?u=3e15c4ef6c741a420297df9a6&id=00b2ecb5cb&e=c175740658)
2. Select 'REGISTER NOW' button
3. For IZFS non-members, follow the prompts to register for webinar(s).
4. Immediately following the webinar selection page for non-members, a 'Special Discount Code Page' will be next and will request the ZHA code to be entered.
5. In the 'Enter code' box, type in the following complimentary ZHA special registration code (case-sensitive):**ZHAIZFSWEBINAR**
6. Click 'Continue' and complete your registration process.
7. If you have any questions, please contact [info@izfs.org](mailto:info@izfs.org)

* **Imaging Workshop**
* **Cancer Modeling**
* **Drug Discovery**

**6. The Aquarium Vet**

**Aquatic Animal Welfare**

[**https://www.proprofs.com/training/course/?title=aquatic-animal-welfare\_5c3edf5362866**](https://www.proprofs.com/training/course/?title=aquatic-animal-welfare_5c3edf5362866)

<https://www.theaquariumvet.com/home-webinars/>

**7. Animal Welfare Information Center On-Line Workshop**

[**https://workspace.oregonstate.edu/course/meeting-the-information-requirements-of-the-animal-welfare-act?hsLang=en**](https://workspace.oregonstate.edu/course/meeting-the-information-requirements-of-the-animal-welfare-act?hsLang=en)

**8. Complete an On-line webinar from JAX Labs**

[**https://www.jax.org/education-and-learning**](https://www.jax.org/education-and-learning)

Some examples of categories of webinars include but are not limited to:

* NEW: Sizing Mouse Colonies
* NEW: Genotyping JAX Mice
* Basics of CRISPR/Cas9
* Common Laboratory Mouse Strains: A Beginner’s Guide
* Beyond Genes: Epigenetics, Environment & Health
* Basics of Mouse Genetics
* Cre-lox Technology in Mouse Modeling

**9. Complete an On-line course from Charles River**

<https://www.criver.com/events?f%5B0%5D=event_type%3A1957>

Short Course

**10. Complete an On-line Course from Taconic**

On demand webinars

<https://www.taconic.com/?utm_campaign=Design&utm_term=&utm_medium=ppc&utm_source=adwords&hsa_net=adwords&hsa_grp=78087158044&hsa_kw=&hsa_tgt=dsa-789234768851&hsa_ver=3&hsa_acc=7198328570&hsa_ad=368731373167&hsa_src=g&hsa_mt=b&hsa_cam=2032638231&gclid=CjwKCAjw5p_8BRBUEiwAPpJO62GQlcz-9liBLYj9vmefgSdlaf3T35nRifFePSgHphoXv4AnjqyeDBoCYhYQAvD_BwE>

**11. ILAR**

<https://www.nationalacademies.org/events>

**12. Complete a CITI course**

Options:

Working with the IACUC

Working with the IACUC: Refresher

Essentials for IACUC Members

IACUC Community Member

Post-Procedure Care of Mice and Rats in Research

Minimizing Pain and Distress

Post Approval Monitoring

Wildlife Research

Working with Rats, Mice, Amphibians, Fish or Zebrafish in Research Settings

Aseptic Surgery

Working with Genetically Modified Mice in Research Settings

**13. Attendance at a Professional Meeting or On-line Training**

PRIMR

National AALAS

<https://issuu.com/aalasoffice/docs/2020_virtual_meeting_program>

OTHER: Topics covered: Lab Animal Welfare, Regulatory Aspects of Animal Care and Use or Application of the 3R’s (Reduction, Replacement, Refinement)

\* Contact the [acp@uwm.edu](mailto:acp@uwm.edu) if you have any questions.