NASA Status on JR Crew Training
Planned and Completed

September 2016

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### 48S (I49)

Joint Research training **planned**: (hours below do include interpretation)

(Green text classes have been completed)

<table>
<thead>
<tr>
<th><strong>48S/ Ryzhikov</strong></th>
<th><strong>48S/ Borisenko</strong></th>
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<tbody>
<tr>
<td><strong>HRF Fluid Shifts, 14.5 hrs.</strong></td>
<td><strong>Rodent Research (User) – 8.75 hrs.</strong></td>
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<tr>
<td>- HRF Fluid Shifts Overview</td>
<td>- Consent Briefing</td>
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<tr>
<td>- HRF Fluid Shifts Ultrasound Imaging</td>
<td>- Care Briefing</td>
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<tr>
<td>- HRF Fluid Shifts Hardware</td>
<td>- Rodent Generic Handling &amp; Transfer</td>
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<tr>
<td>- HRF Fluid Shifts Russian Ops</td>
<td>- Rodent Habitat Fam for JR</td>
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<tr>
<td>- HRF Fluid Shifts Russian Ops OCT</td>
<td>- Support classes:</td>
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<tr>
<td>- HRF Fluid Shifts Integrated Ops</td>
<td>- Cold Transfer Skills</td>
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<td>- Support classes:</td>
<td>- MSG</td>
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<td>- HRF BioSampling</td>
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<td>- HRF Phlebotomy</td>
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<td>- HRF Rack</td>
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<td>- HRF Ultrasound-2</td>
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<td>- HRF Tonometry</td>
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<tr>
<td><strong>FCF Cool Flames JR, 4.5 hrs.</strong></td>
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49S (I50)

Joint Research training **planned**: (hours below do include interpretation)

(Green text classes have been completed)

- **49S/ Novitskiy**

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**HRF Fluid Shifts, 13.0 hrs.**
- HRF Fluid Shifts Overview
- HRF Fluid Shifts Ultrasound Imaging,
- HRF Fluid Shifts Hardware
- HRF Fluid Shifts Russian Ops
- HRF Fluid Shifts Russian Ops OCT
- HRF Fluid Shifts Integrated Ops
  - Support classes:
    - Cold Transfer Skills
    - HRF BioSampling
    - HRF Phlebotomy
    - HRF Rack
    - HRF Ultrasound-2
    - HRF Tonometry

**Rodent Research (User) – 8.0 hrs.**
- Consent Briefing
- Care Briefing
- Rodent Generic Handling & Transfer
- Rodent Habitat Fam for JR
  - Support classes:
    - Cold Transfer Skills
    - MSG

**FCF Cool Flames JR, 4.5 hrs.**
- Cool Flames specific
- Support classes:
  - MWA
  - ARIS/PARIS Alignment Guide

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Joint Research training planned: (completed hours below do include interpretation) (Green text classes have been completed)

• **50S/ Misurkin**
  - FCF Cool Flames JR, 3.5 hrs.
    - Cool Flames specific (Dec 2016)
    - Support classes
      - MWA (Dec 2016)
      - ARIS/PARIS Alignment Guide (Dec 2016)

• **50S/ Tikhonov**
  - Rodent Research (Operator) – 23.75 hrs.
    - Consent Briefing
    - Care Briefing
    - Generic Rodent Skills
    - Rodent Skills 1 (waived due to loss of Oct trip)
    - Rodent Skills 3
    - Rodent Skills 4
    - Rodent JR Increment Skills (Dec 2016)
    - Rodent Habitat Animal Transfer (Dec 2016)
    - Rodent Habitat Fam for JR (Dec 2016)
      - Support classes:
        - Cold Transfer Skills
        - MSG
        - HRF Rack
        - HRF Refrigerated Centrifuge
**51S (I52)**

Joint Research training planned: (completed hours do include interpretation)

(Green text classes have been completed)

**51S/ Yurchikhin**

- **FCF Cool Flames JR, 3.5 hrs.**
  - Cool Flames specific (March 2017)
  - Support classes:
    - MWA (Dec 2016)
    - ARIS/PARIS Alignment Guide (Dec 2016)

- **Rodent Research (User) – 7.75 hrs.**
  - Consent Briefing (completed in Russia 27 July 2016)
  - Care Briefing
  - Generic Rodent Skills
  - Rodent Skills 1
  - Rodent Skills 3
  - Rodent Skills 4
  - Rodent JR Increment Skills
  - Rodent Habitat Animal Transfer
  - Rodent Generic Handling and Transfer (March 2017)
  - Rodent Habitat Fam for JR (March 2017)
    - Support classes:
      - Cold Transfer Skills (Dec 2016)
      - MSG
      - HRF Rack
      - HRF Refrigerated Centrifuge
Proposed training for 52S (I53)

Joint Research training **planned**: (completed hours do include interpretation)

Skv consented for RR and Vgn will be tasked for Cool Flames/ACME per GCTC input on 7/25/16 at ITIWG f2f.

(Green text classes have been completed)

- **52S/ Skvortsoz**
  - Rodent Research (Operator) – **21.25 hrs.**
    - Consent Briefing, .5 hrs. – completed in Russia
    - Care Briefing (Sept 2016)
    - Generic Rodent Skills (Sept 2016)
    - Rodent Skills 1 (Dec 2016)
    - Rodent Skills 3 (May 2017)
    - Rodent Skills 4 (May 2017)
    - Rodent JR Increment Skills (June 2017)
    - Rodent Habitat Animal Transfer (June 2017)
    - Rodent Habitat Fam for JR (June 2017)
    - Support classes:
      - Cold Transfer Skills (June 2017)

- **52S/ Vagner**
  - **FCF Cool Flames/ACME JR, 3.5 hrs.**
    - Cool Flames/ACME specific, 2 hrs. (June 2017)
    - Support classes, 1.5 hrs. (MWA & ARIS) (May)

- **52S/ Skvortsov and Vagner**
  - Payload Rack training for cosmonauts has been approved via ITCB, ETRIP, and MPTP to begin with I53/54 (52S).
  - Payload Rack classes, **4.5 hrs.**
    - EXPRESS Rack
    - HRF Rack
    - HRF Refrigerated Centrifuge
    - HRF Ultrasound 2
    - MELFI
    - MSG
    - WORF
    - (completed in September)
Proposed training for 53S (I54)

Joint Research training planned: (hours below do not include interpretation)
(Green text classes have been completed)

- **53S/ Ryazanskiy**
  - Rack Familiarizations (User) – 4.5 hrs.
    November 2016
    - EXPRESS
    - HRF
    - HRF Ultrasound 2
    - MELFI
    - MSG
    - WORF

- **FCF Cool Flames/ACME JR, 3.5 hrs.**
  - Cool Flames/ACME specific (June 2017)
  - Support classes
    - MWA (Feb 2017)
    - ARIS/PARIS Alignment Guide (Feb 2017)

- **Rodent Research (Operator) – 24.75 hrs.**
  - Consent Briefing
    - Per GCTC at ITIWG f2f July 2016, ICB will happen in Russia in August 2016. Not needed for FCF.
  - Care Briefing (Nov 2016)
  - Generic Rodent Skills (Nov 2016)
  - Rodent Skills 1 (Feb 2017)
  - Rodent Skills 3 (June 2017)
  - Rodent Skills 4 (June 2017)
  - Rodent JR Increment Skills
  - Rodent RRR Increment Skills (Aug 2017)
  - Rodent Habitat Animal Transfer (Aug 2017)
  - Rodent Habitat Fam for JR (Aug 2017)
  - Support classes:
    - Cold Transfer Skills (Aug 2017)
    - HRF Refrigerated Centrifuge (Nov 2016)