NASA Status on JR Crew Training
Planned and Completed

September 2016

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

(Green text classes have been completed)

**48S/ Ryzhikov**
- **HRF Fluid Shifts, 14.5 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
- **FCF Cool Flames JR, 4.5 hrs.**
  - Cool Flames specific
  - Support classes:
    - MWA
    - ARIS/PARIS Alignment Guides

**48S/ Borisenko**
- **Rodent Research (User) – 8.75 hrs.**
  - Consent Briefing
  - Care Briefing
  - Rodent Generic Handling & Transfer
  - Rodent Habitat Fam for JR
  - Support classes:
    - Cold Transfer Skills
    - MSG

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

(Green text classes have been completed)
49S (I50)

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

• 49S/ Novitskiy

– 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
50S (I51)

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/ 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)

### 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)
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)