The Hyperpolarized MRI Technology Resource Center (HMTRC) is a Biomedical Resource Technology Center whose mission is to develop new advances in dissolution DNP techniques & instrumentation, specialized data acquisition methodology, and analysis software for preclinical and clinical research.

https://radiology.ucsf.edu/research/labs/hyperpolarized-mri-tech/calendar

The March 2019 Hyperpolarized Carbon-13 MRI Technology Development Workshop includes lectures, hands-on training and discussions on dissolution DNP methodology, polarizer instrumentation, MR Sequence and Acquisitions, Chemistry & Pharmacy Preps, Clinical Translation, and Analysis & Display Software.
**Workshop Schedule**

**Day 1**

**Thursday, March 14th**

8:00am  Breakfast/Registration  Genentech Hall Auditorium

8:15  Introductions: HMTRC Director, Dr. Dan Vigneron

8:25  Dissolution DNP Methodology & HP $^{13}$C MR Acquisition Developments: Drs. Peder Larson & Jeremy Gordon, UCSF

8:40  Development of HP MR Molecular Imaging Probes and Cell & Tissue Culture Models: Drs. Renuka Sriram & James Slater, UCSF

9:15  Open Source Tools and Methods for Processing Hyperpolarized $^{13}$C MR Data: Drs. Duan Xu & Jason Crane, UCSF

9:30  **Plenary Talk:** Dr. Michael Ohliger MD, PhD, University of California San Francisco

9:45-10:00  Coffee Break

10:00-12:00pm  **Plenary Talks (Continued)**
  - Dr. Ferdia Gallagher MD, University of Cambridge
  - Dr. Charles Cunningham PhD, University of Toronto
  - Dr. Rahim Rizi PhD, University of Pennsylvania
  - Dr. Jae Mo Park PhD, University of Texas Southwestern Medical Center
  - Dr. Christoffer Laustsen PhD, Aarhus University, Denmark
  - Dr. Kayvan R. Keshari PhD, Memorial Sloan Kettering Cancer Center
  - Dr. Donna Peehl PhD, University of California San Francisco

12:00-1:30  Lunch & Poster Session

1:30-3:15  Hands-on Breakout Sessions with Coffee Break 3:15-3:30pm
AND 3:30-4:45  Hands-on demos & discussions on dissolution DNP methodology, Polarizer instrumentation, MR Sequence and Acquisitions, Bioreactors, Chemistry & Pharmacy Preps, Clinical Translation and Radiologist discussions, will be held in the Surbeck Laboratory for Advanced Imaging. Software hands-on training and discussions (Location TBD).

4:50  Symposium Group Photo

**Dinner Reception & Keynote Lectures**

Sponsored by

5:00  Keynote Lecture by Dr. Matthew Merritt, PhD, University of Florida

5:30  Keynote Lecture by Dr. John Kurhanewicz, PhD, University of California San Francisco

6:00-8:00  Dinner Reception
Workshop Schedule
Day 2

Friday, March 15th

8:00am  Breakfast/Registration & Poster Session  Genentech Hall Auditorium

Plenary Talks
8:15-9:30am  
- GE Healthcare Scientists
- Dr. Javier Villanueva-Meyer MD, University of California San Francisco
- Dr. Pamela Munster MD, University of California San Francisco

9:30-10:00am  Coffee Break

10:00-12:30pm  Hands-on Breakout Sessions
Hands-on demos & discussions on dissolution DNP methodology, Polarizer instrumentation, MR Sequence and Acquisitions, Bioreactors, Chemistry & Pharmacy Preps, Clinical Translation will be held in the Surbeck Laboratory for Advanced Imaging. Software hands-on training and discussions (Location TBD).

12:30-2:00pm  Lunch Reception & Poster Sessions

2:00-4:00pm  Plenary Talks (Continued)
- Dr. Daniel Spielman PhD, Stanford University
- Dr. Sebastien Serres PhD, University of Nottingham
- Dr. Jane Wang MD, University of California San Francisco
- Dr. Ramla Awais PhD, University College London
- Dr. Myriam Chaumeil PhD, University of California San Francisco
- Three Promoted Talks

4:00-5:00pm  Wrap-Up
Registration Information and Fees

HMTRC Workshop Registration Fee

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Participant</td>
<td>$250</td>
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<tr>
<td>Industry Participant</td>
<td>$750</td>
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</tbody>
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University of California personnel please email hmtrc@ucsf.edu before registering to follow UC policies.

**Location:** The HMTRC Workshop will be held on Thursday, March 14 from 8am to 8pm and Friday, March 15, 2019 from 8:30am to 5pm on the UCSF Mission Bay Campus in the Genentech Hall Auditorium, 600 16th Street, San Francisco, CA 94158. Your name badge and workshop program will be available for pick up at the registration counter located outside the Genentech Hall Auditorium.

**Registration:** Online registration for the HMTRC Workshop is available at https://www.123signup.com/register?id=hztyv. VISA, Mastercard, and Discovercard are accepted. The HMTRC Workshop Registration Fee includes hands-on training/demo costs, and related MR scanner, DNP supplies, pharmacy and chemistry costs. Register Early, Enrollment is Limited. No registration at the door.

**Talks:** We invite abstract submissions focused on HP technology development (1 page or less) for oral presentations by academic or industry participants at the 2019 Hyperpolarized Carbon-13 MRI Technology Development Workshop. We will try to accommodate your talk, but if not, these submissions can be presented during our poster sessions. Please visit our website to submit your abstract title and brief description by February 1, 2019.

**Posters:** We welcome poster presentations by any participants. If you would like to present a poster at the workshop, please email us at hmtrc@ucsf.edu. Please visit our website to submit title and author list by March 8, 2019, if you would like it to be included in the printed materials.

**Refund Policy:** If you enroll and cannot attend, a refund of the registration fee less $55 will be granted by February 25, 2019. After this date, a total of $110 will be deducted from your refund. Refunds will not be granted to registrants who fail to cancel prior to the opening of the course. If you are unable to attend, you may send another person in your place. Send refund requests to hmtrc@ucsf.edu and please include a reason for the cancellation. Refunds will be processed within 60 days after the workshop.
Hotel Accommodation

Hotels within the vicinity:
- Marriott Courtyard San Francisco – 299 2nd St, SF, CA 94105; (800) 321-2211
- Harbor Court – 165 Steuart St, SF, CA 94105; (415) 882-1300
- Hotel VIA – 138 King St, SF, CA 94158; (415) 200-4977
- Hotel Griffon – 155 Steuart St, San Francisco, CA 94105 offers a nightly rate of $269 plus tax for a standard queen. For reservation, call Paul Barbaro at 415-249-7908 or email him at pbarbaro@greystonehotels.com. Hotel offers UCSF rates.

SF Hotels within 2.5 miles from the UCSF Mission Bay Campus:
- San Francisco Marriott Marquis – 780 Mission St, SF, CA 94103; (415) 896-1600
- InterContinental San Francisco – 888 Howard St, SF, CA 94103; (415) 616-6500
- Sir Francis Drake Hotel – 450 Powell St, SF, CA 94102; (415) 392-7755
- Inn at Union Square – 440 Post St, SF, CA 94102; (415) 397-3510
- W San Francisco – 181 3rd St, SF, CA 94103; (888) 627-8391
- Hotel Zetta – 55 5th St, SF, CA 94103; (888) 720-7004
- Four Seasons - 757 Market St, SF, CA 94103; (415) 633-3000
- Hotel Zelos – 12 4th St, SF, CA 94103; (888) 459-3303
- Parc 55 – 55 Cyril Magnin St, SF, CA 94102; (415) 392-8000
- The Park Central – 50 3rd St, SF, CA 94103; (888) 627-8561
- Hilton SF Union Square – 333 O’Farrell St, SF, CA 94102; (855) 786-4701
- Holiday Inn Express SF Union Square – 235 O’Farrell St, SF, CA 94102; (888) 465-4329
- Hotel Nikko – 222 Mason St, SF, CA 94102; (415) 394-1111
- Palace Hotel – 2 New Montgomery St, SF, CA 94105; (415) 512-1111
- The Westin St. Francis Union Square – 335 Powell St, SF, CA 94102; (888) 627-8546
- King George Hotel – 334 Mason St, San Francisco, CA 94102 offers a nightly rate of $179 plus tax for 1 queen or 1 king. For reservation, call Paul Barbaro at 415-249-7908 or email him at pbarbaro@greystonehotels.com. Hotel offers UCSF rates.
- Club Quarters Hotel – 424 Clay St, San Francisco, CA 94111 offers a nightly rate of $250 plus tax for a standard room. For reservation, call 415-392-7400. Hotel offers University of California rates.

San Francisco Airport Hotels:
- Hilton Garden Inn SFO – 670 Gateway Blvd., South SF, CA 94080; (650) 872-1515
- Embassy Suites by Hilton SFO – 250 Gateway Blvd., South SF, CA 94080; (650) 589-3400
- Hyatt Regency SFO – 1333 Old Bayshore Hwy, Burlingame, CA 94010; (650) 347-1234
Location: The HMTRC Workshop will be held on Thursday, March 14 & Friday, March 15, 2019 on the UCSF Mission Bay Campus starting in the Genentech Hall Auditorium. Your name badge and workshop program will be available for pick up at the registration counter located outside the Genentech Hall Auditorium.

Registration desk is located in the East Corridor of Genentech Hall entrance, outside the Auditorium on the 1st Floor.