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.

http://www.radiology.ucsf.edu/research/labs/hyperpolarized-mri-tech

The March 2020 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 5th

7:30am  Breakfast/Registration  Genentech Hall Auditorium

8:00  Introductions: HMTRC Director, Dr. Dan Vigneron PhD & Chair of Radiology & Biomedical Imaging, Dr. Christopher Hess MD, PhD

8:10  Dissolution DNP Methodology & HP 13C MR Acquisition Developments: Drs. Peder Larson PhD & Jeremy Gordon PhD, UCSF

8:25  Development of HP MR Molecular Imaging Probes and Cell & Tissue Culture Models: Drs. Renuka Sriram PhD & James Slater PhD, UCSF

8:45  Open Source Tools and Methods for Processing Hyperpolarized 13C MR Data: Drs. Duan Xu PhD & Jason Crane PhD, UCSF

9:00  Plenary Talk: Dr. Michael Ohliger MD, PhD, University of California San Francisco

9:15-9:30  Coffee Break

9:30-11:30  Plenary Talks (Continued)
- Dr. Craig Malloy MD, UT Southwestern Medical Center
- Dr. Mary McLean PhD, University of Cambridge
- Dr. Kayvan Keshari PhD, Memorial Sloan Kettering Cancer Center
- Dr. Damian Tyler PhD, University of Oxford
- Dr. Charles Cunningham PhD, University of Toronto

11:30  Poster Session

12:00-1:30  Lunch & Poster Session (Continued)

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 (Mission Bay, Byers Hall 215).

4:50  Symposium Group Photo

Dinner Reception & Keynote Lectures
Sponsored by

5:00  Keynote Lecture by Dr. Jane Wang MD, University of California San Francisco

5:30  Keynote Lecture by Dr. Kevin Brindle PhD, University of Cambridge

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

Friday, March 6th

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

**Plenary Talks**
8:15-9:30am - **Drs. Albert Chen PhD, Arnaud Comment PhD, Rui Chen PhD**, GE Healthcare Scientists
- **Dr. James Kempf PhD**, Bruker Scientist
- **Dr. C.T. Tan PhD**, Millipore Sigma Isotec Stable Isotopes

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 (Mission Bay, Byers Hall 209).

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

2:00-4:30pm  **Plenary Talks (Continued) in Genentech Hall Auditorium**
   **Moderator: Jeremy Gordon, PhD**
   - **Christoffer Laustsen PhD**, Aarhus University, Denmark
   - **Jeffrey Brender PhD**, National Cancer Institute
   - **Rahul Aggarwal MD**, UC San Francisco
   - **James Bankson PhD**, MD Anderson Medical Center
   - **Lorna Smith & Rafat Chowdhury**, University College London
   - **Cornelius von Morze PhD**, Washington University in St. Louis
   - **Max Fuetterer, PhD**, University of Zurich
   - **Pavithra Viswanath, PhD**, UC San Francisco
   - **Andrea Torchi**, University of Nottingham

4:30-5:00pm  Wrap-Up
Registration Information and Fees

HMTRC Workshop Registration Fee

Academic Participant   $250
Industry Participant   $750

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 5 from 7:30am to 8pm and Friday, March 6, 2020 from 8:00am 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=rgfds. 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 2020 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 14, 2020.

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 February 28, 2020, 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 17, 2020. 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 $219 plus tax for a standard king. Reservation can be made online at https://tinyurl.com/y3ju2ewy. This 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
- Club Quarters Hotel – 424 Clay St, San Francisco, CA 94111; (415) 392-7400
- Galleria Park Hotel – 191 Sutter St, San Francisco, CA 94104; (415) 781-3060
- King George Hotel – 334 Mason St, San Francisco, CA 94102 offers a nightly rate of $199 plus tax for a superior king. Reservation can be made online at https://tinyurl.com/yxv2unxf. This hotel offers UCSF 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 5 & Friday, March 6, 2020 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.