

Clinical Potential of Ultra High Field (UHF) Challenge

High Field Systems & Applications Study Group

Updated Submission Deadline: September 30th, 2021

Our study group advocates for the clinical translation of UHF, but how do we educate, inspire, and excite someone from outside our group of its potential?

The High Fields Systems & Applications study group challenges you to create inspirational presentations demonstrating the clinical impact/benefit/need/potential of UHF MR applications in a 3-4 minute video presentation, primarily addressing clinicians and physicians from outside the UHF MR field. Think about the referring physician beyond the radiologist (neurologist, psychiatrist, orthopedic surgeon, oncologist etc., ...)

We encourage interdisciplinary teams, including clinicians/physicians who don't currently work with UHF MRI. Only the main submitting person needs to be a member of the High Field Study group.

Preferred submission formats are .mp4 for video files and .pptx for animated presentations. Other major formats are acceptable. Submission will be done via a google form and will require answering a few short questions.

Winners will be announced and cash prizes awarded during our study group virtual meeting on October 19th, 2021. Top contributions will be uploaded to the study group's web page and be accessible to anyone.

Join our SLACK channel "CHALLENGE" to stay up to date with the latest. The channel is a perfect way to ask questions, and where we can provide answers to the benefit of everyone participating.

Time to get creative!

Why?

Clinical interest in UHF MRI has been increasing. However, with its comparatively limited availability and accessibility, there is a risk it will be overlooked by referring clinicians and physicians from outside the field of high field MRI/MRS who aren't aware of recent advancements and possibilities.

With this competition, we want to further broaden the pool of those interested in exploring the clinical potential of this modality. While still challenging compared to long-established field strengths and methods, we want to highlight the progress in clinical UHF and the unique benefits it brings to the table.

Preceding the top videos, which will be made available to the public on the study group website, a short introduction of general benefits and challenges of UHF MRI/MRS will be provided so that your presentation can focus on the application.

Submission Criteria:

The submission should capture a clinical application of UHF MR that could be of interest to an audience consisting of clinicians and physicians from outside the MR field. Think beyond radiology to those who refer their patients for clinical imaging.

Guidelines for the submission are as follows:

1. The content should be presented as a video or animated presentation with a duration of 3-4 minutes.
2. Preferred submission formats are .mp4 for video and .pptx for animated presentations. Other major formats are acceptable. If we have any problems with opening the file with your submission, we will contact you via email.
3. A short written synopsis (< 200 words) will be required when submitting to briefly summarize the presented work
4. Your submission must be in English.
5. The main submitting person must be member of the ISMRM high field and applications Study Group.
6. If you are submitting a video, avoid a “lecture style” video – be engaging!
7. If you are submitting an animated presentation, avoid the classic “PowerPoint look” – be creative!

Judging and Award Criteria

All contributions will be reviewed by the Study Group’s committee and by a group of clinicians not working at 7T. Within the judging committee, there will be a mix of native and non-native English speakers.

It must be noted that all the submissions not meeting the criteria outlined above will be excluded from the competition.

The submissions will be judged on the following main criteria:

- How well does the submission make a case for the clinical impact of UHF MRI? Avoid generalization like “high resolution is great” and give a concrete example like, at what stage of a disease or its clinical trajectory might it be meaningful and how.
- Does the submission contrast the proposed UHF method with competing technologies (i.e. state-of-the-art lower field MRI and/or other imaging or diagnostic methods) and is a clinical opinion from outside the UHF MRI field included?
- Is the presentation creative and engaging?

How to submit:

Submission must be made through an online form. The submission includes a short questionnaire about your work. These questions ARE NOT part of the judging process.

Upload here: [Navigate to the Challenge Upload Form](#)

Frequently Asked Questions:

When are submissions due?

September 30th 2021.

Is there a particular format for submission?

Preferred submission formats are .mp4 (ideally 720p) for video and .pptx for animated presentations. Other major formats are acceptable. If we have any problems with opening the file with your submission, we will contact you via email.

Can I see examples from similar contests?

Not quite the same, but you sure can get some inspiration!

This lecture series by Prof. Lipton explains MRI to non-MR medical personnel:

https://www.youtube.com/watch?v=35gfOtjRcic&list=PLH_k6d9j2lGUms4QZzokrKXGEoP6oxkYH

This website uses animated presentations to explain MRI:

<https://www.imaio.com/en/e-Kurs/e-MRI>

The 2018 Magnetic Moments competition hosted by the ISMRM is excellent inspiration for creative presentation of a scientific matter. BUT please note that this challenge was addressing the general public (not clinicians and physicians):

<https://www.youtube.com/watch?v=67GKiK3iFr0&list=PLbkiZxYoulu4YPvOnaevrKbAYfsCgYeCe>

How much background information on UHF MRI should we include in the video?

Limit yourself to the information that is most relevant to the work you are presenting. A short introduction to the general benefits and challenges of UHF MRI will be provided on the SG website.

How will the winners be announced?

Winners will be announced and cash prizes awarded during our study group virtual meeting on October 19th, 2021.

What is the award?

In addition to cash prizes and the highly sought-after prestige, fleeting honor and glory, the top contributions will be highlighted on the Study Groups homepage.

What will happen to the contributions after the competition?

The contributions will stay online, accessible to the general public.