



Lost in Translation: The Challenges of Research Transfer into Clinical Practice

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JOHNS HOPKINS
WHITING SCHOOL
of ENGINEERING

It's 2018, why don't we have...



... medical robots (AI?) in the standard high-end OR?



... 3D ultrasound in every practice?



... Deep Learning systematically applied to medical image & clinical data?



... paperless hospitals?



The Problem

We have a tremendous knowledge growth and rapidly advancing medical technology that does not reach practice and bedside (in time^[1]).

If we knew what it was we were doing, it would not be called research, would it?
(Claimed to be a quote of Albert Einstein...)

[1] Morris, Z.S., Wooding, S. and Grant, J., 2011. **The answer is 17 years, what is the question: Understanding time lags in translational research.** *Journal of the Royal Society of Medicine*, 104(12), pp. 510-520.



What this Seminar Focuses On

How can we identify potential obstacles and limitations of (our own) research?

What is required for a fruitful dialog between research and medical practitioners?

How are the current health care system and regulatory requirements influencing research transfer?

How do we achieve more interdisciplinary research competence to overcome intersectional barriers?

How to get away from isolated technical/medical phenomena towards a systematic approach, precise question and robust validation of new findings?



Administrative

“Hauptseminar” / Master Seminar (2 SWS, 5 ECTS)

Course Website: campar.in.tum.de/Chair/TeachingSs18LiT

Schedule:

- One introductory lecture

- One presentation training session

- Expert presentation sessions

Location and Time: TBD (biweekly meetings)



Interactive Seminar

Students will work in teams of 2-3

Each team will be the expert team on one topic/paper

Expert teams are responsible for

- presenting their topic to other teams
- prepare questions and key take home message(s)
- moderate a discussion



Grading is based on

- Presentation
- Attendance and active participation
- Final report (6-10 pages)



Registration

Through the TUM matching system: matching.in.tum.de

Documentation and FAQ: docmatching.in.tum.de

09.02. to 14.02.18 - Register in the matching system with your TUMOnline ID

21.02.18 - Course assignment finished. We will send an e-mail to all assigned participants shortly after.

Please check the course website regularly!
campar.in.tum.de/Chair/TeachingSs18LiT





Thank you!

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