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## Education & Career

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| 1993 - 1997 | M.D. | Hanyang Univ. College of Medicine |
| 1998 - 2000 | M.M.Sc. | Hanyang Univ. College of Medicine, Graduate School |
| 2000 - 2003 | Ph.D. | Hanyang Univ. College of Medicine, Graduate School |

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| 2002 - 2005 | Dept. Diagnostic Radiology, Hanyang University Guri Hospital, Hanyang University College of Medicine, Guri-city, Korea | Vascular & non-vascular interventional radiology |
| 2005 - | Department of Radiology and Center for Imaging Science, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea | Abdominal imaging, HIFU, RFA |
| 2006 - 2007 | Ultrasound Laboratory, Imaging Research Discipline, Research Institute, Sunnybrook Health Science Center, Department of Medical Biophysics, University of Toronto, Toronto, ON, Canada | Visiting scholar, HIFU |

## Bibilography *(as primary author, since 2012)*

1. Volumetric MR-guided High-intensity Focused Ultrasound Ablation with a One-Layer Strategy to Treat Large Uterine Fibroids: Initial Clinical Outcome. *Radiology* 2012;263:600-609.
2. Gas-Filled Phospholipids Nanoparticle Conjugated to Gadolinium Play a Role as a Potential Theragnostics for MR-guided High-intensity Focused Ultrasound Ablation. *PLoS ONE* 2012;7:e34333, 1-10
3. Improving energy efficiency in the volumetric MR-HIFU ablation of uterine fibroids: role of treatment cell size. *Eur J Radiol* 2012;81:3652-3659.
4. MR Thermometry Analysis of Sonication Accuracy and Safety Margin of Volumetric MR Imaging-guided High-Intensity Focused Ultrasound Ablation of Symptomatic Uterine Fibroids. *Radiology* 2012;256:627-37
5. The effect of high-intensity focused ultrasound in combination with cisplatin using a xenograft model of cervical cancer. *Anticancer research* 2012;32:5285-5289
6. Ten-year outcome of percutaneous radiofrequency ablation of hepatocellular carcinoma with an analysis of prognostic factor. *J Hepatol* 2013;58:89-97
7. Pulsed High-intensity Focused Ultrasound Therapy Enhances Targeted Delivery of Cetuximab to Colon Cancer

Xenograft Model in Mice. *Ultrasound Med Biol* 2013;39:292-299

8. Volumetric MR-guided high-intensity focused ultrasound ablation of uterine fibroid: treatment speed and factors influencing speed. *Eur Radiol* 2013;23:943-50
9. Novel temperature triggered liposomes with high stability: formulation, in vitro evaluation, and in vivo study combined with high-intensity focused ultrasound. *J Control Release* 2013;170:373-379
10. Technique to displace bowel loops in MR imaging-guided high-intensity focused ultrasound ablation of fibroids in the anteverted or anteflexed uterus. *Am J Roentgenol*, 2013; 201:W761-4
11. Techniques to expand patient selection for MRI -guided high-intensity focused ultrasound ablation of uterine fibroids. *Am J Roentgenol* 2014;202:443-451.
12. Safety and therapeutic efficacy of complete or near-complete ablation of symptomatic uterine fibroid tumors by MR imaging-guided high-intensity focused US therapy. *J Vasc Interv Radiol* 2014;25:231-239
13. Uterine fibroid: Postsonication temperature decay rate enables prediction of therapeutic responses to MR imaging-guided HIFU ablation. *Radiology* 2014;270:589-600
14. Enhancement of therapeutic efficacy of systemically-administered doxorubicin by high-intensity focused ultrasound-induced localized hyperthermia: experimental study using SCC-7 xenograft model in mice. *Ultrasound Med Biol*, 2014;40:1554-1563
15. Ultrasonographic analysis of the intercostal spaces for the application of high-intensity focused ultrasound therapy to the liver. *Am J Roentgenol*, 2014;203:201-208
16. Ablation of hepatocellular carcinoma. *Best Pract Res Clin Gastroenterol* 2014;28:897-908.
17. Motion compensation for ultrasound thermal imaging using motion-mapped reference model: an in vivo mouse study. *IEEE Trans Biomed Eng* 2014;61:2669-2678
18. Semiquantitative perfusion MRI predicts treatment efficiency of MR-HIFU ablation of uterine fibroids. *Radiology*, 2014;273:462-471
19. Advances in MR imaging-guided HIFU. *Int J Hyperthermia*, 2015;31:225-232
20. Uterine Fibroids: Correlations of T2 Signal Intensity with Semiquantitative Perfusion MR Parameters in Candidates for MR-guided High Intensity Focused Ultrasound Ablation. *Radiology* 2016;178:925-935
21. Uterine Fibroids: Screening MRI-Based Prediction Model for Assessing Immediate Therapeutic Responses to MR Imaging-Guided High-Intensity Focused Ultrasound Ablation. *Invest Radiol* 2016;51:15-24
22. Effects of Sonazoid Microbubble Uptake on Radiofrequency Ablation of the Liver: Experimental Study Using a Rabbit Model. Liver Int 2016 Feb, Epub ahead of print
23. MRI monitoring of tumor-selective anticancer drug delivery with stable thermosensitive liposomes triggered by high-intensity focused ultrasound. Mol Pharmaceutics, 2016 Mar, Epub ahead of print