

# INNA GERTSENSHTEYN, PH.D.

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## EDUCATION

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**University of Chicago** 2017 - 2022  
Ph.D. in Medical Physics · Biological Sciences Division  
Thesis: Multi-Modal Imaging of Tumor Hypoxia to Improve Radiation Therapy

**Boston University** 2011 - 2015  
B.A. in Physics · College of Arts and Sciences

## EXPERIENCE

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**Invicro** Oct 2023 - present  
*Associate Study Director* *Discovery Research*

- Managing preclinical discovery research studies across various therapeutic areas in the oncology space.
- Engaging with sponsors, business development teams, laboratory staff, and project management and data analysis teams from study design to final report.
- Drafting and optimizing nuclear medicine imaging protocols and analysis methods.
- Troubleshooting with interdisciplinary teams to provide short-term and long-term problem-solving solutions to meet the needs of studies.

**Massachusetts General Hospital and Harvard Medical School** Sep 2022 - Sep 2023  
*Postdoctoral Research Fellow* *Gordon Center for Medical Imaging; Radiology*

- Conducted studies for cardiac imaging and radioligand therapy drug development, using imaging modalities that include PET, SPECT, CT, MR, and fluorescence/light/electron microscopy and histopathology in mice, swine, and humans.
- Collaborated with multidisciplinary teams (local and international) to develop imaging strategies based on internal analysis, literature, and external experts.
- Wrote IRB amendments for cardiac PET/MR and PET/CT imaging studies with healthy volunteers and patients.
- Participated in industry-sponsored projects by writing research agreements, progress reports, and collaboration.
- Designed study protocols and analysis for theranostic drug development with  $^{177}\text{Lu}$ -radiolabeled nanoparticles for targeting gliomas and monitoring radiation exposure with SPECT imaging.
- Coordinated and conducted large-animal imaging experiments for  $^{18}\text{F}$ -TPP<sup>+</sup> PET/CT for *in vivo* imaging and kinetic modeling of the mitochondrial membrane potential to predict irreversible organ toxicity.

**Biogen, Cambridge, MA** Jan 2022 - June 2022  
*Co-op: Late Discovery Imaging* *Research and Early Development Biomarkers*

- Navigated image databases across SPECT and PET experiments imaging antisense oligonucleotides (ASOs) across species for several neurological diseases.
- Used VivoQuant and MATLAB for image analysis to identify gaps in understanding of biodistribution of different therapeutic modalities based on imaging data.
- Presented research progress at internal meetings to various stakeholders.

**Invicro, Boston, MA***Sr. Image Analyst*

May 2015 - May 2017

*Image Analysis Department*

- Completed and managed image analysis projects in modalities including PET, SPECT, CT, MRI, fluorescence microscopy, and autoradiography.
- Acquired skills in automated image registration and segmentation, image data quantification, writing summary reports of analysis and results for clients at pharmaceutical companies and research universities, and training new employees to use company software.
- Work in autoradiography resulted in two poster presentations.

**Massachusetts General Hospital, Boston, MA***Research Assistant*

Nov 2014 - May 2015

*Radiation Oncology*

- Performed deformable image registration on MRI-CT scans of head and neck cancer patients using Plastimatch.
- Collaborated with researchers from Memorial Sloan Kettering Cancer Center to find optimal parameters for registration, comparing Mutual Information to Gradient Magnitude metrics.
- Work resulted in oral presentation at AAPM 2015.

**CERN, Geneva, Switzerland***Research Assistant Intern*

Feb - Jun 2014

*Crystal Clear Collaboration*

- Created anatomic phantom models for the Endoscopic Time-of-Flight Positron Emission Tomography & Ultrasound (EndoTOFPET-US) using GAMOS/GEANT4.
- Collected spectral data using  $^{137}\text{Cs}$  with a variety of scintillator crystals for modeling simulations.

**Respiratory Motion Inc., Waltham, MA***Massachusetts Life Sciences Intern*

Summer 2012

- Conducted research with the respiratory monitor *ExSpirom* on healthy volunteers at the clinic site in Waltham, and at Massachusetts General Hospital on patients before, during, and after knee/hip replacements.
- Responsibilities included data acquisition and analysis, and training new employees.

**PROFESSIONAL ASSOCIATIONS**

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Member of the Society of Nuclear Medicine and Molecular Imaging (SNMMI)

Secretary of University of Chicago Student Chapter, Society of Photo-Optical Instrumentation Engineers (SPIE)

**BOARD MEMBERSHIP**

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2023-2025 intern for the Center for Molecular Imaging Innovation and Translation (CMIIT) Board of Directors at SNMMI

**RESEARCH SUPPORT**

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**2022 - 2023** NIH NIBIB Training Grant T32EB013180**2021 - 2022** NIH NCI F31 Ruth L. Kirschstein NRSA Predoctoral Fellowship: Correcting  $^{18}\text{F}$ -Misonidazole PET with MRI and EPR to improve hypoxia-guided radiation therapy**2017 - 2019** NIH NIBIB Training Grant T32EB002103

## HONORS AND AWARDS

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<b>2023</b>	Travel grant from the CMIIT at SNMMI
<b>2022</b>	Graduate Program on Medical Physics Best Dissertation Award
<b>2021</b>	1 <sup>st</sup> Place at the Society of Nuclear Medicine and Molecular Imaging CMIIT Young Investigators Awards Session
<b>2020</b>	Lawrence H. Lanzl Medical Physics Graduate Fellowship Award
<b>2019 - 2020</b>	Paul Hodges Research Award
<b>2019</b>	1 <sup>st</sup> Place at the Midwestern Chapter of the American Association of Physicists in Medicine Young Investigators Symposium
<b>2011 - 2015</b>	Dean's List, Boston University
<b>2014</b>	Boston University Undergraduate Research Opportunity Student Research Award
<b>2014</b>	Project Purple Scholarship for Pancreatic Cancer
<b>2011</b>	Academic Scholarship from Brookhaven at Lexington

## INVITED TALKS

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<b>2022</b>	O2M Technologies: "Oxygen-guided radiation therapy: comparing EPROI and FMISO PET for hypoxia imaging"
<b>2023</b>	Gordon Center for Medical Imaging: "Peritumoral [ <sup>177</sup> Lu]Lu-ferumoxytol nanoparticle inhibits glioma xenograft growth + Imaging membrane potential with [ <sup>18</sup> F]FTPP+ PET/CT"

## UNIVERSITY ACTIVITIES

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<b>2020 - 2021</b>	Panel member of Peer Mentoring Committee of Biological Sciences Division
<b>2014 - 2015</b>	Volunteer, PRISM (PeerRs for Incoming Student Mentorship)
<b>2011 - 2015</b>	Member, Photon, Boston University Physics

## COMMITTEE ON MEDICAL PHYSICS ACTIVITIES

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<b>2019 - present</b>	Organizer of the Graduate Peer Mentorship Program
<b>2019 - 2020</b>	Co-President of the Medical Physics Graduate Students
<b>2017 - present</b>	Member, Diversity and Inclusion Committee

## TEACHING EXPERIENCE

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<b>2018 - 2021</b>	Graduate Teaching Assistant, University of Chicago: Mathematics for Medical Physics, Physics of Medical Imaging 1, Physics of Medical Imaging 1 Practicum
<b>2015 - 2018</b>	Private tutor for middle and high school students, Boston Metro Area
<b>2012 - 2013</b>	Undergraduate Teaching Assistant, Boston University: Laboratory classes, Electrostatics and Magnetism I & II Lecture/Discussion classes, Introductory Classical Mechanics Lecture/Lab/Discussion, Improving the Teaching of Physics

## COMMUNITY SERVICE

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<b>2018 - 2019</b>	Volunteer Tutor at Tutoring Chicago
<b>2018</b>	Volunteer at Science Olympiad, Chicago
<b>2011 - 2012</b>	Volunteer at Peer Health Exchange, Boston

## SKILLS

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<b>Programing languages</b>	MATLAB (Image Processing, Machine Learning), Python (Numpy), VivoScript, R, LaTeX,
<b>Image analysis software</b>	Vivoquant, ImageJ, SliceViewer, QuPath, PMOD
<b>In vivo modalities</b>	PET, SPECT, CT, multimodal MRI, EPR
<b>Ex vivo modalities</b>	H&E, IHC, fluorescence microscopy, electron microscopy, quantitative autoradiography
<b>Spoken languages</b>	Russian and English (native), Spanish and French (beginner)
<b>Communication</b>	Collaboration, adaptability, conflict resolution, presentation skills to experts and non-experts, intercultural communication

## PEER-REVIEWED ARTICLES

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1. **Gertsenshteyn I**, Epel B, Giurcanu M, Barth E, Lukens J, Hall K, Flores Martinez J, Grana M, Maggio M, Miller R.C., Sundramoorthy S.V., Krzykawska-Serda M, Pearson E, Aydogan B, Weichselbaum R.R., Tormyshev V.M., Kotecha M, Halpern H. Absolute Oxygen-Guided Radiation Therapy Improves Tumor Control in Three Preclinical Tumor Models. *Frontiers in Medicine*, 10(2023).
2. **Gertsenshteyn I**, Epel B, Ahluwalia A, Kim H, Fan X, Barth E, Zamora M, Markiewicz E, Tsai H-M, Sundramoorthy S, Leoni L, Lukens J, Bhuiyan M, Freifelder R, Kucharski A, Giurcanu M, Roman B, Karczmar G, Kao C-M, Halpern H, Chen C-T. The optimal  $^{18}\text{F}$ -Fluoromisonidazole PET threshold to define tumor hypoxia in preclinical squamous cell carcinomas using  $\text{pO}_2$  electron paramagnetic resonance imaging as reference truth. *European Journal of Nuclear Medicine and Molecular Imaging*, 49:40144024(2022).
3. **Gertsenshteyn I**, Epel B, Barth E, Leoni L, Markiewicz E, Fan X, Giurcanu M, Tsai H-M, Zamora M, Boder D, Sundramoorthy S, Kim HJ, Freifelder R, Bhuiyan M, Kucharski A, Karczmar G, Kao C-M, Halpern H, Chen C-T. Improving Tumor Hypoxia Location in  $^{18}\text{F}$ -Misonidazole PET with DCE-MRI Using Quantitative EPR  $\text{P}_{\text{O}_2}$  Images. *Radiology: Imaging Cancer*, 3:2(2021).
4. **Gertsenshteyn I**, Giurcanu M, Vaupel P, Halpern HJ: Biologic Validation of EPR Image Oxygen Thresholds in Tissue. *Journal of Physiology*, 599(6):1759-1767:(2021).
5. Redler G, Pearson E, Liu X, **Gertsenshteyn I**, Epel B, Pelizzari C, Aydogan B, Weichselbaum R, Halpern HJ, Wiersma RD: Small animal IMRT using 3D printed compensators. *International Journal of Radiation Oncology, Biology, Physics* (2020).
6. Kim H, Epel B, Sundramoorthy S, Tsai H-M, Barth E, **Gertsenshteyn I**, Halpern H, Hua Y, Xie Q, Chen C-T, Kao C-M. Development of a PET/EPRI combined imaging system for assessing tumor hypoxia. *Journal of Instrumentation* 16 P03031 (2021).

## ARTICLES NOT PEER-REVIEWED

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1. Foy J, **Gertsenshteyn I**, Al-Hallaq H, Armato SG III, Sensakovic WF: Dependence of radiomics features on CT image acquisition and reconstruction parameters using a cadaveric liver. Proc. SPIE 11314, Medical Imaging 2020: Computer-Aided Diagnosis, 113140U (16 March 2020).

## MANUSCRIPTS IN REVIEW OR IN PREPARATION

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1. **Gertsenshteyn I**, Epel B, Giurcanu M, Barth E, Lukens J, Hall K, Martinez JF, Grana M, Maggio M, Miller RC, Sundramoorthy SV, Krzykawska-Serda M, Pearson E, Aydogan B, Weichselbaum RR, Tormyshev VM, Kotecha M, Halpern H: Absolute Oxygen-Guided Radiation Therapy Improves Tumor Control in Three Preclinical Tumor Models. *In review*.

2. **Gertsenshteyn I**, Yuan H, Wilks MQ, Takahashi K, Johnson S, Meehan S, MacDonagh A, Wang Z, Cotese B, Jones A, Subramani R, Yokomizo S, Kashiwagi S, El Fakhri G, Choi HS, Josephson L, Normandin MD: Peritumoral [<sup>177</sup>Lu]Lu-Ferumoxytol Nanoparticle Inhibits Glioma Xenograft Growth. *In preparation*.
3. **Gertsenshteyn I**, van Kampen A, Bijari FJ, Goudot G, Melnitchouk S, Diodato CP, Bonkowski DS, Yaghoubian KM, Woodcock RS, Macdonald-Soccorso M, Lawrence R, Levine RA, Alpert N, Normandin MD, El Fakhri G: Large animal model for induction of regional wall-motion abnormalities. *In preparation*.

## PRESENTATIONS

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1. **Gertsenshteyn I**, Bijari FJ, Moon S-H, Dhaynaut M, Petibon Y, Goudot G, Normandin MD, Guehl N, Pelletier-Galarneau M, Alpert N, El Fakhri G: Early detection of doxorubicin-induced hepatotoxicity by imaging mitochondrial membrane potential. SNMMI Annual Meeting, June 2023.
2. **Gertsenshteyn I**, Yuan H, Takahashi K, Wilks MQ, Johnson S, Meehan S, Wang Z, Yokomizo S, Kashiwagi S, El Fakhri G, Choi H, Josephson L, Normandin MD: Nanoparticle Brachytherapy with Peritumoral [<sup>177</sup>Lu]Lu-Ferumoxytol Inhibits Glioma Xenograft Growth. SNMMI Annual Meeting, June 2023.
3. Berens L, **Gertsenshteyn I**, Barth E, Fan X, Roman BB, Kim H, Epel B, Leoni L, Tsai H-M, Lukens J, Gambino R, Longo D, Sundramoorthy S, Markiewicz E, Bhuiyan M, Freifelder R, Kucharski A, K C-M, Halpern H, Chen C-T: Addition of CEST-MR pH Imaging to a Multi-Modal Approach Using FMISO-PET, DCE-MRI, and EPR-pO<sub>2</sub> to Improve Radiotherapy of Hypoxic Tumors. SNMMI Annual Meeting, June 2023. (Presented by Berens L)
4. **Gertsenshteyn I**, Yuan H, Takahashi K, Wilks MQ, Johnson S, Meehan S, Wang Z, Yokomizo S, Kashiwagi S, El Fakhri G, Choi H, Josephson L, Normandin MD: Nanoparticle Brachytherapy with Peritumoral [<sup>177</sup>Lu]Lu-Ferumoxytol Inhibits Glioma Xenograft Growth. 73rd Meeting of the MGH Scientific Advisory Committee, March 2023.
5. Vafay Eslahi S, Bijari FJ, Marin T, Han PK, **Gertsenshteyn I**, Alpert N, Ma C, El Fakhri G: Three-dimensional imaging of myocardial membrane potential using <sup>18</sup>F-FTPP+ PET and MR. 73rd Meeting of the MGH Scientific Advisory Committee, March 2023. (Presented by Vafay Eslahi S)
6. **Gertsenshteyn I**, et al: Comparing Radiolabeled ASO Biodistribution Between Rats and NHPs. 18th Annual Meeting of the Oligonucleotide Therapeutics Society. October 2022. (Presented by Park K)
7. **Gertsenshteyn I**, Epel B, Kim H, Fan X, Barth E, Zamora M, Markiewicz E, Hsiu-Ming Tsai H-M, Sundramoorthy S, Leoni L, Lukens J, Hall K, Florez-Martinez J, Bhuiyan M, Freifelder R, Kucharski A, Giurcanu M, Roman B, Karczmar G, Kao C-M, Chen C-T, Halpern H: Using EPR to calculate the optimal threshold to locate hypoxia in <sup>18</sup>F-Fluoromisonidazole (FMISO) PET in three preclinical tumor types. Rocky Mountain Conference on Magnetic Resonance. July 2022. (Presented by Epel B)
8. **Gertsenshteyn I**: Multi-modal imaging of tumor hypoxia. Young Investigator Symposium for the AAPM Midwest Chapter Spring Meeting. April 2022.
9. Kotecha M, Epel B, Halpern H, **Gertsenshteyn I**, Rickard A, Palmer G, Mowery Y: A 25 mT Preclinical Electron Paramagnetic Resonance Oxygen Imager, JIVA-25TM, And Its Applications to Small Animal Image-Guided Radiotherapy. 5th Conference on Small Animal Precision Image-Guided Radiotherapy. March 2022. (Presented by M. Kotecha)

10. **Gertsenshteyn I**, Ahluwalia AS, Epel B, Kim H, Barth E, Tsai H-M, Leoni L, Lukens J, Hall K, Sundramoorthy SV, Zhang H, Giurcanu M, Fan X, Markiewicz E, Zamora M, Bhuiyan M, Kucharski A, Freifelder R, Roman B, Karczmar G, Kao C-M, Halpern H, Chen C-T: Validation of Multimodal Hypoxia imaging Using  $P_{O_2}$  EPR, FMISO PET, and DCE-MRI with H&E and CD31 Staining on SCC7 Squamous Cell Carcinomas. RSNA Annual Meeting (New Frontiers in PET Radiopharmaceuticals Session). December 2021.
11. **Gertsenshteyn I**, Epel B, Kim H, Leoni L, Tsai H-M, Barth E, Lukens J, Hall K, Sundramoorthy S, Giurcanu M, Ahluwalia A, Fan X, Markiewicz E, Zamora M, Bhuiyan M, Freifelder R, Kucharski A, Kao C-M, Chen C-T, Halpern H: Validation and correction of  $^{18}\text{F}$ -misonidazole PET with  $P_{O_2}$  EPR and DCE-MRI. ISOTT Virtual Annual Meeting, Methods 2 Session. July 2021.
12. **Gertsenshteyn I**, Epel B, Miller RC, Sundramoorthy S, Giurcanu M, Lukens J, Hall K, Tormyshev V, Aydogan B, Weichselbaum R, Kotecha M, Halpern H: Directing local hypoxia radiation boosts in three tumor models with EPR  $P_{O_2}$  imaging. ISOTT Virtual Annual Meeting, July 2021. (Poster presentation by H. Halpern)
13. Kim H, Epel B, Sundramoorthy S, Hua Y, **Gertsenshteyn I**, Barth E, Xie Q, Halpern H, Chen C-T, Kao C-M: Development of integrated PET/EPRI systems for studying quantitative oxygen imaging. NIH-DOE Workshop, July 2021.
14. **Gertsenshteyn I**, Epel B, Barth E, Kim H, Leoni L, Tsai H-M, Lukens J, Sundramoorthy S, Giurcanu M, Ahluwalia AS, Fan X, Markiewicz E, Zamora M, Bhuiyan M, Freifelder R, Kucharski A, Kao C-M, Halpern H, Chen C-T: Optimal  $^{18}\text{F}$ -misonidazole PET threshold to locate SCC7 tumor hypoxia using EPR  $P_{O_2}$  as ground truth. SNMMI Virtual Annual Meeting, CMIIT Young Investigator Award Session. June 2021. *1<sup>st</sup> Place Winner*
15. **Gertsenshteyn, I**: Hypoxia-Guided Radiation Therapy with Electron Paramagnetic Resonance Imaging. University of Chicago Graduate Program in Medical Physics Research Colloquium, Chicago, IL, February 2021.
16. Smith HA, **Gertsenshteyn I**, Epel B, Barth E, Maggio MC, Sundramoorthy S, Halpern HJ: Predicting tumor control using geometric features of hypoxia measured with EPRI. 62nd Annual Meeting of the American Association of Physicists in Medicine, Virtual, 2020. (Poster presentation by H. Smith).
17. Kim H, Epel B, Sundramoorthy S, Tsai H-M, Barth E, **Gertsenshteyn I**, Hua Y, Xie Q, Halpern HJ, Chen C-T, Kao K-M: Rejection of RF noise effects on PET in a PET/EPR combined imaging system. IEEE Nuclear Science Symposium and Medical Imaging Conference, Virtual, 2020. (Poster presented by H. Kim.)
18. Halpern H, Maggio M, Barth E, Boder D, Miller RC, Pelizzari CA, Krzykawska-Serda M, Sundramoorthy SV, Aydogan B, Weichselbaum RR, Tormyshev VM, **Gertsenshteyn I**, Epel B: Increased tumor control boosting hypoxic regions identified with EPR  $pO_2$  imaging in 2 tumor types. AACR Virtual Annual Meeting II. June 2020. (Poster presented by H. Halpern.)
19. **Gertsenshteyn I**, Epel B, Giurcanu M, Leoni L, Barth E, Fan X, Markiewicz E, Zamora M, Tsai H-M, Freifelder R, Kucharski A, Bhuiyan M, Boder D, Karczmar G, Kao C-M, Halpern H, Chen C-T: Multimodal imaging of tumor hypoxia with  $^{18}\text{F}$ -misonidazole PET, EPR, and MRI. AACR Virtual Annual Meeting II. June 2020. (Poster.)
20. **Gertsenshteyn I**, Epel B, Giurcanu M, Leoni L, Barth E, Fan X, Markiewicz E, Zamora M, Tsai H-M, Freifelder R, Kucharski A, Bhuiyan M, Boder D, Karczmar G, Kao C-M, Halpern H, Chen C-T: Improving  $^{18}\text{F}$ -FMISO Hypoxia Target Map with EPRI and DCE-MRI. RSNA. Chicago, IL, Dec 2019.

21. **Gertsenshteyn I**, Maggio MC, Krzykawska-Serda M, Barth E, Miller RC, Pelizzari CA, Sundramoorthy SV, Aydogan B, Weichselbaum RR, Tormyshev VM, Kim H-J, Kao C-M, Freifelder BE, Chen C-T, Halpern HJ: Two mammalian tumor models show improved clonogenic control with electron paramagnetic resonance (EPR)  $P_{O_2}$  image-based hypoxic boosts and with DCE-MRI corrected  $^{18}F$ -Misonidazole PET. ASTRO, Chicago, IL, Sept 2019. (Presented by H. Halpern.)
22. **Gertsenshteyn I**, Epel B, Giurcanu M, Maggio M, Krzykawska-Serda M, Barth E, Miller RC, Pelizzari CA, Sundramoorthy SV, Aydogan B, Weichselbaum RR, Tormyshev VM, Halpern H: EPR molecular oxygen images identify biologically relevant tumor hypoxia in two mammalian models to increase tumor control. WMIC, Montreal, Canada, Sept 2019. (Poster presented by H. Halpern.)
23. **Gertsenshteyn I**, Epel B, Giurcanu M, Leoni L, Barth E, Fan X, Markiewicz E, Zamora M, Tsai H-M, Friefelder R, Kucharski A, Bhuiyan M, Boderio D, Karczmar G, Kao C-M, Halpern H, Chen C-T: In-vivo preclinical imaging of tumor hypoxia using EPR, DCE-MRI, and PET-CT with  $^{18}F$ -Miso to improve radiotherapy. WMIC 2019, Montreal, Canada, Sept 2019. (Poster presented by H. Halpern.)
24. **Gertsenshteyn I**, Foy J, Crofton A, Grekoski V, Tran T, Guruvadoo K, AlHallaq H, Armato SG III, Sensakovic W: Dependence of radiomics features on CT image acquisition and reconstruction parameters using a cadaveric human liver. AAPM, San Antonio, TX, July 2019. (Poster.)
25. **Gertsenshteyn I**, Epel B, Giurcanu M, Leoni L, Barth E, Fan X, Markiewicz E, Zamora M, Tsai H-M, Friefelder R, Kucharski A, Bhuiyan M, Boderio D, McVea A, Holderman N, Karrison T, Karczmar G, Kao C-M, Halpern H, Chen C-T: Preliminary Investigation of Hypoxia within Tumor Using EPRI, DCE-MRI, and PET-CT with  $^{18}F$ -FMISO to Improve Radiotherapy. SNMMI: Oncology: Basic & Translational, Anaheim, CA, July 2019.
26. Sullivan JM, Qutaish M, Polyak I, Aldridge M, Heimann J, **Gertsenshteyn I**, *et al.*: Development of a medium-throughput method to screen the effect of test articles on mouse brain activity using  $^{14}C$ -2-deoxyglucose ( $^{14}C$ -2DG) 3D autoradiography. NeuroReceptor Mapping, London, England, July 2018. (Poster.)
27. Qutaish M, Ilovich O, **Gertsenshteyn I**, *et al.*: 3D Cryo-Imaging and Quantitative Autoradiography (CIQA) for the Evaluation of Radiolabeled Drugs Targeting to Tumor Cells. WMIC, New York, NY, Sept 2016. (Poster.)
28. **Gertsenshteyn I**, Tyagi N, Farjam R, Apte A, Sharp G: Comparing Mutual Information and Gradient Magnitude Metrics for Deformable Image Registration, AAPM, Anaheim, CA, July 2015.