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#### SIP RDA: Pre-R01 \$200K

Predicting neoadjuvant treatment response of rectal cancer

2020 2021 2022 2023 2024

### Frontiers in oncology

Rectal Cancer Treatment
Management: Deep-Learning
Neural Network Based on
Photoacoustic Microscopy
Image Outperforms
Histogram-Feature-Based
Classification.

#### Radiology

Assessing Rectal
Cancer Treatment
Response Using
Coregistered Endorectal
Photoacoustic and US
Imaging Paired with
Deep Learning.

# Journal of biophotonics

Human colorectal cancer tissue assessment using optical coherence tomography catheter and deep learning.

# Biomedical optics express

Deep learning based on coregistered ultrasound and photoacoustic imaging improves the assessment of rectal cancer treatment response.

### NIH/NIBIB R01 \$1.6M

Predicting Neoadjuvant
Treatment Response of
Locally Advanced Rectal
Cancer Using CoRegistered Endo-Rectal
Photoacoustic and
Ultrasound Imaging
(EB034398)

- Grant
- Publication
- Investment/

Institutional Commitment