



Keyword	Abstract Numbers
#	
3D computer vision	A010
3D-QSAR	A004
A	
active learning	A003, A041
Acute promyelocytic leukemia	B031
ADMET Prediction	A024
adverse event prediction	B012
Adverse events	A015
Agent Based Modelling	A028
agent-based model	A027
AI	IA01
AI and ML	B007
AI data quality	B006
AI infrastructures	A052
AI methods and foundation models	B041
AI model	B028
AI Modelling	A006
AI-powered bioinformatics	B057
AIRCHECK DNA-Encoded Libraries	
Affinity Selection	A013
AlphaFold	A026
Analyses image radiomics	B026
Anxiety and Depression	B059
artificial intelligence	A041, A060, A063
Artificial Intelligence and machine learning	A024
Artificial Intelligence Digital Pathology	A048
Attention based deep learning	A045
Autoencoder	A031
Automated medical image segmentation	B025,PR-07
B	
Bayesian adaptive methods	A040
Bayesian Additive Regression Trees	A002
Bayesian counterfactual prediction	A007
bias	B002, B004,PR-04
Bioinformatics	B040
biomarker	B044
Biomarker Discovery	B047
biomarkers	A006, A019, B036
Body composition	A064
brain metastases	B023
breast cancer	A027, B039, B043, B048
Breast Cancer Pathology	B055,PR-06
C	
Cancer data	B007
Cancer dependencies	A011



Cancer Diagnosis	A050
cancer diagnostics	B034
cancer imaging biomarkers	B023
cancer of unknown primary	A055,PR-03, A050
Cancer precision medicine	B024
Cancer Recurrence	B059
cancer risk prediction	B015
Cancer therapeutics	A009
Causal Inference	A061
Cell-free DNA	A045
cfDNA filtering	A035
Cheminformatics	A001
Cholangiocarcinoma	A020
Chronic lymphocytic leukemia	B046
Circulating tumor cells	B036
Clinical LLM	B017
clinical sequencing	A055,PR-03
Clinical trials	B017
Clinical variables	A059
Clinician-AI collaboration	B019
clonality	A032
Cloud deployment radiological	B026
combination therapy	A003, A014
computational oncology	A046
computational pathology	B035
confidence filtering	B029
Conversational AI	B057
convolutional neural network	B031
Cross-modal semantic alignment	A049
ctDNA Methylation	A033
D	
data harmonization	B011
datasets	B003
DCIS	A041
Decentralized Clinical Trials	A002
Deep Learning	A029, A050, B020, B053, B061,PR-05, IA02
Deep Learning (CNN-1D)	A022
Deep learning inference	B026
Deep Learning Predictive Modeling	B059
Deep Research	B016
Denoising diffusion models	A035
digital pathology	A055,PR-03, A063, B014, B047
digital twin	A044
Dimensionality Reduction	B052
Distress Prediction	A062
DNA methylation	B051
domain-specific adaptation	A021
Dose-Response Modeling	A030
Drug Combination Analysis	A030



drug discovery	A004, A010, IA03
Drug Discovery and Artificial Intelligence	A013
Drug repurposing	A018
Drug resistance	A042
Drug Response Modeling	A023
Drug response prediction	A005
Drug-blind testing	A005
drug-induced cardiotoxicity	A021
D-VAE tumoroids and radioresistance	B032
dynamics	A036
E	
Early cancer detection	A045
EHR curation	B002
Elastic Net	B051
Emotional Tone Classification	B013
Epigenetics	A033, A037
epitope prioritization	B056
esophageal adenocarcinoma	A046
Esophageal cancer	B027
Ethics of artificial intelligence	B024
explainability	A051
Explainable AI	A062
F	
Fairness auditing	B001
federated AI	B060
federated learning	B044
Foundation LLMs	B021
Foundation Model	B061, PR-05, B022, IA02
Foundation models	B014
G	
Generative AI	A058
generative AI and scRNA-seq	B032
Generative AI for drug discovery	A025
Generative Artificial Intelligence	A026
generative machine learning	A016
genetics	IA01
genomics	A039
gleason pathology	B029
glioblastoma	A047, B003, B050
Global health equity	B024
Graph	A031
Graph Autoencoder	B054
Graph Neural Networks	B054
Guideline	B004, PR-04
H	
H&E	B053
Head and neck cancer	B051



Head and neck oncology	B019
Health Disparities	B005
Hematologic Malignancies	B005
HER2	B055,PR-06
Histology images	B033
histopathology	B018, B039
homologous recombination deficiency (HRD)	A057
Hospitalisation	A015
Human Transcriptome Array	A022
I	
Image-based profiling	A010
Imaging Flow Cytometry	B052
immune checkpoint inhibition	B023
immune checkpoint inhibitor MAPKi	
Melanoma	B045
Immune Checkpoint Inhibitors	B008
Immune synapse	B052
Immunogenomics	B016
immuno-oncology	B044, B040
immunotherapy	B011, A015, A064
in vitro validation	A008
Inflammatory breast cancer	A018
Informed machine learning	B058
interpretability	A047
Interpretable Machine Learning	A011
IPMN and PDAC	A043
K	
kidney cancer	A053
Kinases	B009
Knowledge graph	A019
KRAS	A014, A016
L	
large language model	B015
large language models	B018, A028, B008
large lymphoma cell	B046
large-scale DNA organization	B030
Latent space	A031
lessons learned	IA01
Li-Fraumeni Syndrome	B042
Liquid Biopsy	B049
LLM	B002
LLM AI Knowledge Graph	B040
LLM data curation	B006
LLM intervention	A054
LLMs	B012
LMM	A060
Lung Adenocarcinoma EGFR	
Mutation Metastasis	A048
Lung Cancer	A023



Lung Cancer Surgery

A054

M

Machine Learning

A033, A061, B049, A006, A032, A043, B011, B034,
A001, A009, A017, A038, A056, B001, B036

machine learning fairness

B003

machine learning modeling

A014

machine learning models

A063

Machine learning techniques

A040

Malignant pediatric brain tumors

B032

Mass Spectrometry and Virtual
Screening

A013

methylation

A037

microenvironment

A027

Model generalization

A005

modeling

A036

molecular modeling

A004

morphology

IA03

Mortality prediction

A064

Multi-Agent Systems

B016

multi-cancer early detection

B058

Multimodal

A058

Multimodal AI

A054, A057

Multimodal contrast learning

A049

Multimodal features

B027

Multimodal fusion

A059

multi-modal machine learning

A047

multiomics

A046

Multi-omics

A042, A056

Multi-omics analysis

B057

multi-omics machine learning

A051

multiple instance learning

B030

mutational signatures

A038, A043

mutation-induced drug resistance

A016

N

Natural Language Processing in

Oncology

B013

neoantigen prediction

B056

neutrophils

B038

New target discovery

A019

NMF spatial architecture

B045

NRF2

A012

NSCLC genomics

A036

O

obesity

B039

oncogenic transcription factors

A025

Oncology

B009, B021

Oncology imaging workflows

B025, PR-07

Oncology LLMs

B007

outcome prediction

A044

ovarian cancer

A057



P

Palliative Care	B005
Pathology	B048
Pathology at MSKCC	A034
pediatric cancer	A039
Pediatric cancers	A038
peripheral blood smear	B031
Personalized cancer treatment	A060
personalized cancer vaccines	B056
Personalized treatment selection	A007
Pharmacogenomics	A030
platelet RNA	B034
Precision diagnosis and treatment of cancer	A049
precision medicine	B037
prediction	B022
predictive modelling	A021
predictive oncology	A003
Privacy-preserving large language models	B019
prognostic modelling	A053
Progression-Free Survival	B008
prolymphocyte	B046
prompt engineering	B012
prostate cancer	A017, A022, A056, B018, B029, B030, B035
prostate cancer and gland segmentation	B028
prostate volume estimation and multi reader variability	B028
Protein language models	B009
protein-protein interactions (PPIs)	A025
Psychosocial Support in Cancer	B013

R

Radiation Therapy	A062
Radiation Therapy Interruption	A061
Radiological Imaging	A029
Real world data	A052
real world evidence	A037, B060
Real-world data	A042
Real-world evidence	A040
real-world progression outcomes	B006
Reproducibility	B001, B021
Response assessment	B010
Response prediction	A017, A020, A029
Responsible	B004, PR-04
Responsible AI	A052
Rhabdomyosarcoma	B042
risk assessment	B058
risk prediction	B043

S



segmentation	B043
self-supervised representation	
learning	B037
single cell RNA seq	B041
single cell RNA-sequencing	B038
single-cell RNA-seq	IA02
Single-Cell Sequencing	B042
single-cell spatial omics	B053
Small datasets	A020
SNV	A034
Somatic	A034
Somatic Variants	B061,PR-05
Spatial Data and Spatial Motifs	B054
spatial proteomics	B037
Spatial Sequencing	A023
Spatial Signal Processing	B048
Spatial Transcriptomics	B047, B050
Spatial transcriptomics and spatial	
biomarkers	B045
Stacking ensemble learning	A001
subtype prediction	B020
Support set retrieval algorithms	B025,PR-07
survival analysis	A053
Survival prediction	B014
synergy deep learning	A008
Synthetic biology	A009
Synthetic data	A058, B027
Synthetic lethality	A011
systems biology	B041
T	
Text mining	A018
thymic epithelial tumours	B020
Tissue-of-origin classification	A035
topic modeling	B050
toxicity	B022
toxicology	IA03
transposable elements	A039
Treatment effect heterogeneity	A007
treatment outcome prediction	A051
trial simulation	A044
triple negative breast cancer	B038
Triple-negative breast cancer	B033
Tumor burden	B010
tumor heterogeneity	A032
Tumor Microenvironment	A028
Tumor Subtyping	A048
U	
USP1	A026
USP1 inhibitors	A024

V

variability and scoring	B055,PR-06
Volumetric image segmentation	B010

W

Whole slide imaging	A059
---------------------	------



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA



AACR Special Conference in Cancer Research
**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**
July 10-12, 2025 | Montreal, QC, Canada

AACR
American Association
for Cancer Research®

2411047E

American Association for Cancer Research® Special Conference in Cancer Research
Artificial Intelligence and Machine Learning
July 10-12, 2025 | Montreal, CA