ABSTRACT CATEGORIES



The AACR Annual Meeting 2027 abstract categories, along with their related subcategories and subclassifications, are listed below. When you use the Abstract Submission System, these options will be available for your selection. Please choose the appropriate category, subcategory, and subclassification that best describe the scientific content of the abstract and the particular scientific audience you wish to reach. This information will be utilized by the members of the Program Committee in their review of abstracts and planning of sessions at the AACR Annual Meeting 2027. Please note that these abstract categories may or may not be used as AACR Annual Meeting session titles. Before making your selection, please scan the entire list for the most appropriate abstract category, subcategory, and subclassification. The regular abstract submission deadline is **November 10, 2026 (11:59 p.m. ET)** and the late-breaking and clinical trials abstract submission deadline is **January 6, 2027 (11:59 p.m. ET).**

The abstract categories are listed in alphabetical order.

BCS Bioinformatics, Computational Biology, Artificial Intelligence, and Data Science

BCS01 Bioinformatics, Computational Biology, and Systems Biology

(See also MCB08: Genomics)

Analytic pipeline optimization
Application of bioinformatics to cancer biology
Database resources
Digital pathology
Integration of clinical and research data
Integrative computational approaches
Liquid biopsy: Multi-analyte and multi-omic
Mathematical modeling
Network biology and precision medicine
New algorithms
New software tools for data analysis
Sequence analysis
Statistical methods
Other

BCS02 Artificial Intelligence (AI), Machine Learning (ML), and Data Science

Agentic AI
Assessment and bias mitigation of AI/ML models
Clinical AI for cancer prediction and precision oncology
Foundation and multimodal models
Generative AI and large language models (LLMs) for biomedical research and application
Novel dataset for training and evaluating AI/ML models
Radiomics and AI in medical imaging
Other

CH Chemistry

CH01 Drug Discovery and Development

Basic and applied nanotechnology and therapeutics
Chemoinformatics, in silico screening, and computational methods
Drug delivery
Drug design
High-throughput screening (assays and libraries)
Lead identification and optimization
Natural products
Synthesis, metabolism, and disposition
Targeted protein degradation
Other

CH02 Proteomics and Mass Spectrometry

Biological mass spectrometry and systems biology
Proteomics and biomarker discovery
Proteomics and signaling networks
Other

CH03 Structural and Chemical Biology

Small molecule, protein, and nucleic acid interactions
Target identification, small molecule probes, and libraries
X-ray and NMR structures
Other

CL Clinical Research: Solid Tumors and Hematologic Malignancies

(not including clinical trials, see also the Clinical Trials [CT] categories)

CL01 Biomarkers and Early Detection
Biomarkers predictive of therapeutic benefit
Diagnostic biomarkers
Early detection biomarkers
Liquid biopsies: Circulating nucleic acids
Liquid biopsies: Circulating tumor cells
Metastasis biomarkers
Prognostic biomarkers
Spatial proteomics and transcriptomics
Other

CL02 Biostatistics in Clinical Trials
Design and analysis of clinical trials
Innovative clinical trial methodology
Statistical modeling and quantitative methods
Other

CL03 Clinical Research in Geriatric Oncology
Aging, immunity, and cancer
Other

CL04 Clinical Research and Cancer Disparities in Racial and Ethnic Minorities and Other Underserved Populations
Biobanking/biospecimen collection
Clinical trial design
Community-engaged research/ community-based participatory research
Community outreach and engagementl
Other

CL05 Immuno-oncology (See also ET01: Biological Therapeutic Agents; IM01: Preclinical Immunotherapy)
Adoptive cell therapy (CAR)
Adoptive cell therapy (Non-CAR)
Combination immunotherapies
Immune cell engagers
Immune checkpoints
Immune mechanisms invoked by other therapies including chemotherapy
Immune mechanisms invoked by radiation therapy
Immune monitoring/clinical correlates
Immune response to therapies
Immunomodulatory agents and interventions
Inflammation, immunity, and cancer
Modifiers of the tumor microenvironment
Therapeutic antibodies
Vaccines (oncolytic and prophylactic)
Other

CL06 Pediatric Cancer – Clinical Investigations (See also CT07: Phase I, II, or III Clinical Trials in Pediatric Cancer; TB04: Pediatric Cancer - Basic Science)
Adolescent and young adult oncology
Childhood cancer drug development
Immunotherapeutic approaches to pediatric cancer
Pediatric cancer predisposition and surveillance
Survivorship, late effects, and second cancers
Therapeutic dosing, resistance, and combination therapy application
Translational pediatric cancer research
Other

CL07 Precision Oncology
Combination therapy
Dose optimization and therapy resistance
Molecular targeted therapy
Other

CL08 Radiation Oncology (See TB05: Radiation Science: ET08: Preclinical Radiotherapeutics)
Clinical radiotherapeutic studies
Clinical theranostics and radioligand therapy
Interventional radiology
Modification of radiosensitivity
Radiation therapy combinations
Radiation-induced late effects/second cancers
Radiation-induced resistance
Other

CL09 Real-World Data and Real-World Evidence
Analyses using clinico-genomic databases
Clinical informatics and data science
Retrospective clinical analyses
Other

CL10 Surgical Oncology (including Prophylactic Surgery)
Surgical intervention in early-stage disease
Surgical intervention in late-stage disease
Surgical outcomes after neoadjuvant therapy
Surgical prophylaxis for high risk populations

CL11 Survivorship Research
Biology of cell and tissue damage
Cardio-oncology
Comparative effectiveness research
Late effects of cancer and its treatment, including second cancers
Psycho-oncology
Supportive care, palliation, and pain management
Translational survivorship research
Other

CL12 Translational Research – Molecular Biology in Clinical Oncology (See also TB02: In Vivo Imaging and Anatomical and Molecular Pathology)
Clinical imaging
Cytogenetics and clinical molecular genetics
Epigenetic therapy
Functional and molecular imaging
Molecular classification of tumors
Theranostics
Tumor staging: Correlation of clinical and molecular markers
Other

CT Clinical Trials: Solid Tumors and Hematologic Malignancies

CT01 Clinical Trials in Progress
Phase I clinical trials in progress
Phase II clinical trials in progress
Phase III clinical trials in progress

CT02 Phase 0 Clinical Trials
Phase 0 clinical trials

CT03 First-in-Human Phase I Clinical Trials
First-in-human phase I clinical trials

CT04 Phase I Adult Clinical Trials (See also ET07: Pharmacology, Pharmacogenetics, and Pharmacogenomics)
Phase I adult clinical trials

CT05 Phase II Adult Clinical Trials
Phase II adult clinical trials

CT06 Phase III Adult Clinical Trials
Phase III adult clinical trials

CT07 Phase I, II, or III Clinical Trials in Pediatric Cancer (See also CL07: Pediatric Cancer Clinical Investigations; TB04: Pediatric Cancer Basic Science)
Phase I clinical trials in pediatric cancer
Phase II clinical trials in pediatric cancer
Phase III clinical trials in pediatric cancer

EN Endocrinology

EN01 Molecular, Preclinical, and Clinical Endocrinology
Clinical studies of endocrine-related tumors
Growth factors, receptors, and signal transduction
Hormone receptors and diagnosis/prognosis
Hormone signaling and inhibitors
Neuroendocrine tumors and other endocrine factors
Nuclear receptors: Structure and function
Preclinical studies of endocrine-related cancers
Receptors and signal transduction
Steroid hormone receptors
Other

ET Experimental and Molecular Therapeutics

ET01 Biological Therapeutic Agents (See also CL05: Immuno-oncology; IM01: Preclinical Immunotherapy)
Antireceptors
Apoptosis: Therapeutic manipulation
Growth factor receptors and other surface antigens as targets for therapy
Oncogenes, tumor suppressor genes, and gene products as targets for therapy
Protein kinases and phosphatases as targets for therapy
Role of microenvironment in therapeutic response
Other

ET02 Drug Discovery
Antibody-based therapeutics (including bispecific, trispecific, and antibody-drug conjugates)
Biochemical modulators of the therapeutic index
Combination chemotherapy
Differentiation therapy
Drug repurposing
New targets
Novel assay technology
Novel drug delivery systems
Targeting the tumor microenvironment in drug development
Other

ET03 Drug Resistance
Drug resistance in molecular targeted therapies
Drug transport and metabolism
Novel mechanisms
Regulation of gene expression in drug resistance
Reversal of drug resistance
Other

ET04 Gene and Vector-based Therapy
Antisense molecules
Gene therapy and radiation studies
Immune modulators
Vector systems and targeting strategies
Other

ET05 Mechanisms of Drug Action
Cell cycle mechanisms of anticancer drug action
Cellular responses to anticancer drugs
Role of the tumor microenvironment in therapeutic response
Other

ET06 Molecular Targets
Cell death pathways and treatment
DNA damage response and modulation of DNA repair
Identification of molecular targets
Molecular classification of tumors for diagnostics, prognostics, and therapeutic outcomes
New nonclinical models for targets
Other

ET07 Pharmacology, Pharmacogenetics, and Pharmacogenomics (See also CT04: Phase I Adult Clinical Trials)
Cellular pharmacology
Molecular pharmacology
Pharmacogenetics and therapeutic response
Pharmacogenomics
Pharmacokinetics and pharmacodynamics
Preclinical toxicology
Proximity-induced pharmacology
Other

ET08 Preclinical Radiotherapeutics (See also TB05: Radiation Science; CL08: Radiation Oncology)
Interactions of new agents with radiation
Modification of radiosensitivity
Molecular targets of radiation response
Normal tissue/cellular stress responses to radiation
Radioprotectors and radiosensitizers
Radiotherapeutic combinations
Theranostics/radiotheranostics
Other

ET09 Small Molecule Therapeutic Agents
DNA-reactive agents
Epigenetic targets
HDAC and methyltransferase inhibitors
Molecular glues
Novel antitumor agents
Novel targets and pathways
PI3K/AKT inhibitors
Platinum complexes
Proteasome inhibitors
Targeted protein degraders
Topoisomerases
Tubulin agents
Tyrosine kinase and phosphatase inhibitors
Other

IM Immunology

IM01 Preclinical Immunotherapy (See also CL05: Immuno-oncology; ET01: Biological Therapeutic Agents)
Adoptive cell therapy (CAR)
Adoptive Cell Therapy (Non-CAR)
Combination immunotherapies
Immune cell engagers
Immune checkpoints
Immune mechanisms invoked by other therapies including chemotherapy
Immune mechanisms invoked by radiation therapy
Immune monitoring/clinical correlates
Immune response to therapies
Immunomodulatory agents and interventions
Inflammation, immunity, and cancer
Modifiers of the tumor microenvironment
Therapeutic antibodies
Vaccines (oncolytic and prophylactic)
Other

IM02 Tumor Immunobiology
Adaptive immunity in tumors
Epigenetic regulation of tumor immunity
Immunoaging, inflammaging, and cancer
Inflammation and cancer: Metastasis
Inflammation and cancer: Tumor initiation and progression
Innate immunity to tumors
Microbiome, inflammation, and cancer
Novel animal models
Oncogenic pathway-mediated regulation of inflammation and tumor immunity
Tumor antigenicity/processing and presentation
Tumor-induced immune suppression: Extrinsic factors
Tumor-induced immune suppression: Intrinsic factors
Other

IM03 Virology and Cancer
Molecular mechanisms of viral oncogenesis
Viruses and cancer (e.g. HPV, EBY, HIV)

MCB Molecular and Cellular Biology and Genetics

MCB01 Cell Cycle
CDKs and CDK inhibitors
Cell cycle checkpoints
Control of cell cycle progression
Telomeres and telomerase
Other

MCB02 Cell Death
Apoptosis
Autophagy
Bcl-2 family proteins
Effects on mitochondria/mitochondrial function
Inhibitor of apoptosis
Necrosis and necroptosis
Other

MCB03 Cell Growth Signaling Pathways
Cell signaling
Cell-cell interactions
Growth factors
GTPases, their regulators, and effectors
Kinases and phosphatases
Receptors
Tumor-stromal cell interactions
Ubiquitin and ubiquitin-like proteins
Other

MCB04 Cellular Stress Responses
Hypoxia
Oxidative stress
Premature cellular aging
Senescence
Unfolded protein response
Other

MCB05 DNA Damage Response and Modulation of DNA Repair
Chromosomal structural alterations/translocations
Genomic instability
Homologous recombination
Mechanisms of genomic alterations
Radiation-induced DNA damage
Other

MCB06 Epigenetics and Epigenomics
Chromatin structure and function
DNA methylation
Epigenetic changes as molecular markers of cancer
Epigenetics and cellular aging
Epigenomics
Gene silencing
Histone modifications
Other

MCB07 Gene Regulation and Transcription Factors
Chromatin structure and function
Gene expression
Mechanisms of transcription
Oncogenic transcription factors
Posttranscriptional and translational control
Promoters and enhancers of transcription
Protein-protein interactions in transcription factor function
Regulation of transcription factor function
Transcriptional control of cell differentiation
Other

MCB08 Genomics (See also BCS01: Bioinformatics, Computational Biology, and Systems Biology)
Functional genomics
Genomic profiling of tumors
High-throughput sequencing
Large-scale approaches to cancer gene discovery
Other

MCB09 Metabolism and Cancer
Metabolic pathways
Metabolic reprogramming
Metabolic therapeutics (including GLP-1)
Metabolomics
Mitochondrial function
Signaling pathways that regulate metabolism
Other

MCB10 microRNAs (miRNAs) and Other Noncoding RNAs
Epigenetic control of miRNA expression
miRNA profiling in cancer
miRNA regulation of cancer biology
miRNA-based diagnostics
miRNA-based therapeutics
miRNAs as tumor suppressors/oncogenes
Noncoding RNAs
Other

MCB11 Oncogenes and Tumor Suppressor Genes
Cytoplasmic signaling proteins
Genotype/phenotype correlations
Nuclear oncoproteins and tumor suppressor genes
Oncogene growth factors and their receptors
Tumor suppressor genes
Other

PS Population Sciences

PS01 Population Sciences
Aging as a risk factor
Biomarkers of endogenous or exogenous exposures, early detection, and biologic effects
Biomarkers of prognosis
Cancer disparities research
Diet, alcohol, tobacco use, and other lifestyle risk factors
Environmental and occupational risk factors
Epidemiology, covering cancer incidence, mortality, clusters, and trends
Familial and hereditary cancers
Functional studies of genetic variants
Gene-gene and gene-environment interactions
Genome-wide association studies (GWAS)/post-GWAS
Health services and comparative effectiveness research
Implementation science (including global health)
Infection and immune factors
Next-generation sequencing in epidemiology studies (whole genome, exome, targeted, or fine-mapping)
Pathway and candidate gene studies of risk or prognosis
Pharmacoepidemiology
Preneoplastic and tumor markers
Primary and secondary intervention studies
Psychosocial and behavioral epidemiology
Risk prediction models for incidence, prognosis, and/or mortality
Screening and early detection
Statistical and epidemiological methodology
Survivorship research
Other

PR Prevention, Early Detection, and Interception

PR01 Clinical Prevention, Early Detection, and Interception
Application of molecular pathology in clinical prevention
Biomarkers and intervention studies
Cancer disparities research
Cancer surveillance and screening studies
Chemoprevention clinical trials
Chronic inflammation, immune modulation, and cancer prevention
Early detection and imaging
Genomics and proteomics in cancer risk and response assessment
Infectious agents and cancer
Microbiome and prevention
Obesity, diet, physical activity, and energy balance
Prevention and treatment of premalignant lesions (intraepithelial neoplasia)
Prevention of second cancers
Quality of life/late effects/survivorship
Recruitment of racial and ethnic minorities and other underserved populations in clinical prevention trials
Screening and early detection
Other

PR02 Preclinical Prevention, Early Detection, and Interception
Animal models in prevention
Behavioral sciences and prevention
Biological and biochemical mechanisms in prevention
Biomarkers and intervention studies
Cancer communication and decision making
Cellular models
Chemoprevention studies
Diet, nutrition, and cancer
Microbiome and prevention
Molecular markers in prevention research
Molecular targets for prevention
New agent development
Screening and early detection
Other

RSP Regulatory Science and Policy

RSP01 Regulatory Science and Policy
Biosimilars and generics
Clinical trial design and accrual
Combination therapies and codevelopment of investigational agents and diagnostics
Data science and informatics
Global regulatory issues
Novel endpoints and biomarkers
Real-world evidence and retrospective analyses
Tobacco and e-cigarette regulation
Other

SHP Science and Health Policy

SHP01 Science and Health Policy
Cancer disparities
Cancer survivorship
Implementation science (including global health)
Patient advocacy and engagement
Science communication to the public
Value and cost issues in cancer care
Other

SHP02 Patient Advocacy and Community Engagement
Patient advocacy and community engagement
Other

TB Tumor Biology

TB01 Angiogenesis and Tumor Vasculature
Angiogenesis and angiogenesis inhibitors
Endothelial cell biology and vascular signaling
Host-tumor interactions
Molecular mechanisms of angiogenesis
Novel pro- and antiangiogenic factors
Tumor microcirculation and the microenvironment
Vascular remodeling and vascular plasticity
Other

TB02 In Vivo Imaging and Anatomical and Molecular Pathology (See also CL12: Translational Research: Molecular Biology in Clinical Oncology)
Advanced nanotechnology and imaging
Application of imaging technology to the clinic
Imaging in animal models
Imaging of molecular and cellular events in the tumor microenvironment
Imaging of molecular and cellular events in tumors and tumor cells
Imaging the immune response
Imaging tumor metabolism
New targets for imaging
Other

TB03 Nonclinical Models of Cancer
Alternative species models
Ex vivo systems (tumor slice cultures)
Functional precision medicine
Humanized mouse models
In vitro models (2D, 3D, organoids, spheroids)
In vivo models (genetically engineered mouse models, PDXs, syngeneic models)
New approach methodologies (NAMs)
Noninvasive imaging in animal models
Other

TB04 Pediatric Cancer – Basic Science (See also CL06: Pediatric Cancer – Clinical Investigations; CT07: Phase I, II, or III Clinical Trials in Pediatric Cancer)
Developmental origins and drivers of pediatric cancer
Pediatric cancer genomics and epigenomics
Pediatric cancer models
Pediatric cancer tumor microenvironment and tumor heterogeneity
Other

TB05 Radiation Science (See also CL08: Radiation Oncology; ET08: Preclinical Radiotherapeutics)
Modulators of radiation response
Photobiology/photodynamic therapy
Radiation-activated signaling pathways
Radiation-induced gene expression
Radiation-induced resistance
Radiobiology research
Radioprotectors and radiosensitizers
Other

TB06 Stem Cell Biology
Adult stem cells
Cancer stem cells
Developmental pathways in cancer
Pluripotent stem cells (embryonic and induced pluripotent stem cells)
Stem cell identification, markers, and lineage tracing
Stem cells and regenerative medicine in oncology
Other

TB07 Tumor Adhesion
Cell adhesion and extracellular matrix
Drug resistance
Other

TB08 Tumor Evolution and Heterogeneity
Causes and consequences of tumor heterogeneity
Clonal evolution
Methods to measure tumor evolution and heterogeneity
Other

TB09 Tumor Microenvironment
Aging tumor microenvironment
Chemokines in the microenvironment
Drug targets in the microenvironment
Extracellular matrix and integrins
Extracellular vesicles and exosomes
Gene expression in the microenvironment
Immune cells in the tumor microenvironment
Inflammation as a regulator of tumor growth
Organ-specific microenvironments
Proteases and inhibitors in the microenvironment
Spatial heterogeneity in the tumor microenvironment
Tumor dormancy
Tumor microbiome
Tumor/stromal interactions
Tumor-immune system interactions
Other

TB10 Metastasis
Actin cytoskeleton
Biomarkers of metastasis
Epithelial/mesenchymal transition (EMT and MET)
Expression profiling of tumor progression and metastasis
Genes that regulate migration and invasion
Imaging of tumor progression and metastasis
Invasion and migration
Metastasis-promoting genes
Metastasis suppressor genes
Premetastatic niche
Therapeutic metastasis prevention
Other