



The AACR Annual Meeting 2022 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 2022. 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 18, 2021 (11:59 p.m. ET) and the late-breaking and clinical trials abstract submission deadline is January 10, 2022 (11:59 p.m. ET).

The AACR is committed to raising awareness about the enormous public health challenge of cancer health disparities and racial inequities. We encourage you to view the relevant abstract subcategories and subclassifications in the listing below. Also, the submission category, COVID-19 and Cancer, provides an opportunity to submit novel work in this timely and critically important area.

Regular Abstract Submission Deadline: November 18, 2021 (11:59 p.m. ET) Late-Breaking and Clinical Trials Abstract

Submission Deadline: January 10, 2022 (11:59 p.m. ET)

MCB Molecular/Cellular Biology and Genetics

MCB01 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

MCB02 Cell Death

Apoptosis Autophagy Bcl-2 family proteins Caspases Effectors of apoptosis Inhibitor of apoptosis (IAP) family proteins Necrosis and necroptosis Transcriptional control of apoptosis Other

MCB03 Oncogenes and Tumor Suppressor Genes

Cytoplasmic signal transducers Genotype/phenotype correlations Nuclear oncoproteins and tumor suppressor genes Oncogene growth factors and their receptors Tumor suppressor genes Other

MCB04 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

MCB05 Epigenetics and Epigenomics

Chromatin structure and function DNA methylation Epigenetic changes as molecular markers of cancer Epigenomics Gene silencing Histone modification Other

MCB06 Cell Cycle

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

MCB07 DNA Damage and Repair

Chromosomal structural alterations/ translocations Genomic instability Homologous recombination Mechanisms of genomic alterations Radiation-induced DNA damage Other

MCB08 Metabolism and Cancer

Metabolic pathways Metabolomics Mitochondrial function Signaling pathways that regulate metabolism Other

MCB09 Genomics

(See also BCS01: Bioinformatics and Computational Biology) Functional genomics Genomic profiling of tumors

High-throughput sequencing Large-scale approaches to cancer gene discovery Microarrays Other

MCB10 microRNAs 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 Cellular Stress Responses

Hypoxia Oxidative stress Premature cellular aging Senescence Unfolded protein response Other

BCS Bioinformatics, Convergence Science, and Systems Biology

BCS01 Bioinformatics and Computational Biology (See also MCB09: Genomics)

Analytic pipeline optimization Application of bioinformatics to cancer biology Database resources Molecular modeling New algorithms New software tools for data analysis Sequence analysis Statistical methods Other

BCS02 Convergence Science and Systems Biology

Artificial intelligence and machine/ deep learning Digital pathology and artificial intelligence Integrative cancer science Mathematical modeling Network biology Physical sciences in oncology Systems engineering Other

TB Tumor Biology

TB01 Nonclinical Models of Cancer

3-D and tissue recombinant models Developmental phenotypes of cancer genes Human-in-mouse models of human cancer Model organisms in drug discovery Mouse models of human cancer Noninvasive imaging in animal models Organoids Patient-derived xenograft models Zebrafish models of cancer Other animal and cell models of cancer Other

TB02 Stem Cell Biology

Adult stem cells Cancer stem cells Developmental pathways in cancer Embryonic stem cells Stem cell markers Stem cells and regenerative medicine in oncology Other

TB03 Tumor Adhesion

Cell adhesion and extracellular matrix Cell-cell adhesion Drug resistance Other

TB04 Metastasis

Actin cvtoskeleton 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 suppressor genes Metastasis-promoting genes Premetastatic niche Therapeutic metastasis prevention Other

TB05 Angiogenesis

Angiogenesis and angiogenesis inhibitors Host-tumor interactions Molecular mechanisms of angiogenesis Novel pro- and antiangiogenic factors Tumor microcirculation and the microenvironment Other

TB06 Tumor Microenvironment

Chemokines in the microenvironment Drug targets in the microenvironment Extracellular matrix and integrins Gene expression in the microenvironment Immune cells in the tumor microenvironment Inflammatory cells as regulators of tumor growth Microbiome Organ-specific microenvironments Proteases and inhibitors in the microenvironment Tumor dormancy Tumor/stromal interactions Tumor-immune system interactions Other

TB07 In Vivo Imaging

(See also CL01: 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

ABSTRACT CATEGORIES (cont'd)

Regular Abstract Submission Deadline: November 18, 2021 (11:59 p.m. ET)

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TB08 Pediatric Cancer -

Basic Science (See also CL02: Pediatric Cancer - Clinical Investigations; CT04: 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

TB09 Radiation Science

(See also CL07: Radiation Oncology; ET09: Preclinical Radiotherapeutics) Modulators of radiation response Photobiology/photodynamic therapy Radiation dose fractionation Radiation-activated signaling pathways Radiation-induced gene expression Radiation-induced resistance Radiobiology research Radioprotectors and radiosensitizers Other

TB10 Tumor Evolution and Heterogeneity

Causes and consequences of tumor heterogeneity Clonal evolution Complex adaptive systems Methods to measure tumor evolution and heterogeneity Other

TB11 Carcinogenesis

Chemical, environmental, and virus-induced carcinogenesis Mutagenesis Other

CH Chemistry

CH01 Drug Discovery, Design, and Delivery

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 Lead optimization Nanotechnology drug delivery Natural products Synthesis, metabolism, and disposition Other

CH02 Structural and Chemical Biology

Chemical genetics and genomics Nanotechnology in chemical biology Small molecule, protein, and nucleic acid interactions Target identification, small molecule probes, and libraries X-ray and NMR structures Other

CH03 Proteomics and Mass Spectrometry

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

ET Experimental and Molecular Therapeutics

ET01 Drug Discovery

Antibody technologies Biochemical modulators of the therapeutic index Combination chemotherapies Differentiation therapy New targets Novel assay technology Novel drug delivery systems Targeting the tumor microenvironment in drug development Other

ET02 Mechanisms of Drug Action

Cell cycle mechanisms of anticancer drug action Cellular responses to anticancer drugs Interactions of new agents with radiation Role of the microenvironment in therapeutic response 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 Molecular Targets

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

ET05 Pharmacology,

Pharmacogenetics,

and Pharmacogenomics (See also CT01: Phase I Adult Clinical Trials) Cellular pharmacology Molecular pharmacology Pharmacogenetics and therapeutic response Pharmacogenomics Pharmacokinetics and pharmacodynamics Preclinical toxicology Other

ET06 Small Molecule Therapeutic Agents

DNA-reactive agents Epigenetic targets HDAC and methyltransferase inhibitors Novel antitumor agents Novel targets and pathways PI3K/AKT inhibitors Proteasome inhibitors Topoisomerases Tubulin agents Tyrosine kinase and phosphatase inhibitors Other

ET07 Biological Therapeutic Agents

(See also CL06: Immunooncology; IM02: 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

ET08 Gene and Vector-Based Therapy

Antisense molecules Gene therapy and radiation studies Immune modulators Vector systems and targeting strategies Other

ET09 Preclinical Radiotherapeutics

(See also TB09: Radiation Science; CL07: Radiation Oncology) Modification of radiosensitivity Molecular targets of radiation response Normal tissue/cellular stress responses to radiation Radioprotectors and radiosensitizers Radiotherapeutic combinations Other

IM Immunology

Tumor Immunobiology IM01 Adaptive immunity in tumors Epigenetic regulation of tumor immunity 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

IM02 Preclinical Immunotherapy (See also CL06: Immunooncology; ET07: Biological Therapeutic Agents) Adoptive cell therapy Combination immunotherapies 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, including engineered antibodies Vaccines (oncolytic and prophylactic)

Other

ABSTRACT CATEGORIES (cont'd)

Regular Abstract Submission Deadline: November 18, 2021 (11:59 p.m. ET)

Late-Breaking and Clinical Trials Abstract Submission Deadline: January 10, 2022 (11:59 p.m. ET)

- CT Clinical Trials All clinical trials should be submitted by the January 10, 2022 clinical trials abstract deadline.
- CT01 Phase I Adult Clinical Trials (See also ET05: Pharmacology, Pharmacogenetics, and Pharmacogenomics)
- CT02 Phase II Adult Clinical Trials
- CT03 Phase III Adult Clinical Trials
- CT04 Phase I, II, or III Clinical Trials in Pediatric Cancer (See also CL02: Pediatric Cancer – Clinical Investigations; TB08: Pediatric Cancer – Basic Science)
- CT05 Phase I, II, or III Clinical Trials in the Elderly
- CT06 Phase I, II, or III Clinical Trials in Minorities and Medically Underserved Populations

CT07 COVID-19, Cancer, and Clinical Trials (See also COVID01: COVID-19 and Cancer) Phase I Phase II Phase III Phase IV, observational, and expanded access Clinical trials in progress

CT08 Clinical Trials in Progress

Phase I clinical trials in progress Phase II clinical trials in progress Phase III clinical trials in progress

Clinical Research

CL

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

CL01 Translational Research – Molecular Biology in Clinical Oncology

(See also: TB07: In Vivo Imaging) Clinical imaging Cytogenetics and clinical molecular genetics Epigenetic therapy Functional and molecular imaging Laboratory correlates for targeted agents Molecular classification of tumors Radiomics Tumor staging: Correlation of clinical and molecular markers Other

CL02 Pediatric Cancer -**Clinical Investigations** (See also CT04: Phase I, II, or III Clinical Trials in Pediatric Cancer; TB08: 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 approaches in pediatric oncology Translational pediatric cancer research Other CL03 **Clinical Research in the** Elderly

Aging, immunity, and cancer Other

CL04 Clinical Research 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 patient accrual Impact of COVID-19 on patient accrual Other

CL05 Biostatistics in Clinical Trials

Design and analysis of clinical trials New study designs: Theory, methodology, and modeling Statistical modeling for cancer studies Other

CL06 Immuno-oncology

(See also ET07: Biological Therapeutic Agents; IM02: Preclinical Immunotherapy) Adoptive cell therapy Combination immunotherapies 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, including engineered antibodies Vaccines (oncolytic and prophylactic) Other

CL07 Radiation Oncology

(See also TB09: Radiation Science; ET09: Preclinical Radiotherapeutics) Clinical radiotherapeutic studies Interventional radiology Modification of radiosensitivity Radiation-immunotherapy and other radiotherapeutic combinations Radiation-induced late effects/second cancers Radiation-induced resistance Other

CL08 Surgical Oncology (including Prophylactic Surgery) Surgical oncology

CL09 Clinical Endocrinology

Clinical Endocrinology (See also EN01: Molecular, Preclinical, and Clinical Endocrinology) Endocrine-related cancers Hormone receptors and diagnosis/ prognosis Hormone signaling and inhibitors Hormone synthesis, metabolism, and inhibitors Neuroendocrine and other endocrine factors Nuclear receptors: Structure and function Preclinical studies of endocrine-related cancers Receptors and signal transduction Steroid hormone receptors Other

CL10 Survivorship Research and Supportive Care

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

CL11 Biomarkers

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

CL12 Clinical Outcomes Research Clinical outcomes research

CL13 Real-World Data (RWD) and Real-World Evidence (RWE) Analyses using clinico-genomic databases Clinical informatics and data science

Clinical informatics and data science Retrospective clinical analyses Other

CL14 Precision Oncology Combination therapy Molecular targeted therapy Other

EN Endocrinology

EN01 Molecular, Preclinical, and **Clinical Endocrinology** (See also CL09: Clinical Endocrinology) Endocrine-related cancers Growth factors, receptors, and signal transduction Hormone receptors and diagnosis/ prognosis Hormone signaling and inhibitors Hormone synthesis, metabolism, and inhibitors Neuroendocrine and other endocrine factors Nuclear receptors: Structure and function Preclinical studies of endocrine-related cancers Receptors and signal transduction Steroid hormone receptors Other

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RSP

RSP01

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 health disparities research Descriptive epidemiology, covering cancer incidence, mortality, clusters, and trends Diet, alcohol, tobacco use, and other lifestyle risk factors Environmental and occupational risk factors 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 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 Risk prediction models for incidence, prognosis, and/or mortality Screening and early detection Statistical and epidemiological methodology Survivorship research Other

Prevention, Early Detection, and Interception

PR

PR01 Preclinical Prevention, Early Detection, and Interception

Animal models in prevention Biological and biochemical mechanisms in prevention Biomarkers and intervention studies 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

PR02 Clinical Prevention, Early Detection, and Interception

Application of molecular pathology in clinical prevention Biomarkers and intervention studies Cancer health disparities research Cancer surveillance and screening studies Chemoprevention clinical trials Genetic markers as surrogate endpoints in prevention trials Genomics and proteomics in cancer risk and response assessment Infections and virus-related cancers Microbiome and prevention Prevention and treatment of premalignant lesions (intraepithelial neoplasia) Prevention of second cancers Recruitment of racial and ethnic minorities and other underserved populations in clinical prevention trials Screening and early detection Other

PR03 Implementation Science

Behavioral science and prevention Cancer communication and decisionmaking Cancer health disparities research Genetic testing and counseling Health policy and outcomes Obesity, diet, physical activity, and energy

balance Quality of life/late effects/survivorship Other

COVID COVID-19 and Cancer

COVID01 COVID-19 and Cancer

Cancer drug repurposing to treat COVID-19 Cancer prevention and early detection during the COVID-19 pandemic Clinical trials [See also CT07: COVID-19, Cancer, and Clinical Trials (Phase I-Phase IV and Trials in Progress)] Continuity of cancer care COVID-19 vaccine development COVID-19 vaccines and immune responses among cancer patients Diagnostics for COVID-19 testing: Design, development, and validation Effects of cancer immunotherapies on patients with COVID-19 (with or without cancer) Effects of COVID-19 on cancer survivorship Epidemiology and registries of COVID-19 and cancer (including biorepositories) Health inequities and disparities during the COVID-19 pandemic Intersection of the biology of SARS-CoV-2 and cancer Risk factors and comorbidities resulting in adverse outcomes for cancer patients

with COVID-19

Other

Science and public policy

and diagnostics Data science and informatics Novel endpoints and biomarkers Real-world evidence and retrospective

Biosimilars and generics

Clinical trial design and accrual

Combination therapies and

analyses Tobacco and e-cigarette regulation Other

Regulatory Science

codevelopment of investigational agents

Regulatory Science and Policy

and Policy

SHP Science and Health Policy

SHP01 Science and Health Policy

Cancer health disparities Cancer survivorship Comparative effectiveness research Implementation science Patient advocacy and engagement Value and cost issues in cancer care Other

DECODING CANCER COMPLEXITY

INTEGRATING SCIENCE

TRANSFORMING PATIENT OUTCOMES