American Society for Nutrition
Excellence in Nutrition Research and Practice
www.nutrition.org

NUTRITION 2027

Where the Best in Science & Health Meet

July 26-29, 2027 • Las Vegas, NV

# Call for Abstracts - Abstract Submission: Suggested Keywords

Presenting authors must provide at least two keywords associated with the content area of the abstract to assist with programming at NUTRITION 2027.

During abstract submission, a track and topical area must be selected for the abstract. ASN member groups (e.g., Research Interest Sections, Councils) will use tracks, topical areas and keywords to program abstracts. These groups have provided suggested keyword lists for each topical area which are included below, though, presenting authors are not limited to these keywords. As needed, authors may enter other keywords that better describe their research.

## Aging and Chronic Disease

- Aging
- Antioxidants
- Cardiovascular/Hypertension/CHF
- Chronic disease
- Cognition
- Dementia
- Diabetes/Prediabetes
- Diet and dietary pattern
- Food assistance programs
- Food security
- Frailty
- Gut health
- Macronutrient
- Microbiome
- Micronutrient
- Musculoskeletal
- Nutrition education
- Nutritional status
- Obesity
- Older adults
- Osteoporosis
- Polyphenols
- Prevention
- Sarcopenia
- Sleep obstructive apnea
- Statistical modeling
- Supplementation
- Type 2 diabetes
- Ultra-processed foods

## Aging, Longevity, and Functional Health

- Age-related metabolic changes
- Aging
- Bioactives
- Bone health
- Cellular health
- Cognition
- Dietary supplements
- Frailty
- Functional capacity and independence
- Functional foods/ingredients
- Geroscience
- Healthy aging
- Lifespan
- Longevity
- Muscle health
- Nutraceutical
- Nutritional interventions for healthy aging
- Physical function
- Sarcopenia
- Supplementation

## Applications of Novel in vitro Methods in Nutrition

- 3D cell culture
- Co-culture models
- Gastrointestinal simulation systems
- Microfluidics
- Microphysiological systems
- Nutrikinetics/nutridynamics
- Organoids
- Organ-on-a-chip

## Artificial Intelligence and Machine Learning in Nutrition

- Artificial intelligence (AI)
- Data analysis
- Digital tools
- Machine learning (ML)
- Multimodal machine learning (MML)
- Pattern recognition
- Predictive modeling
- Research methods
- Scientific rigor
- Technology

## Carotenoids and Retinoids

- Antioxidants
- Bioavailability
- Bioefficacy
- Cancer
- Carotenoids
- Cognition
- Function
- Health
- Mechanisms
- Metabolism
- Receptors
- Retinoids
- Vitamin A

## Climate, Environment, Agriculture, Sustainability, Food Systems, and One Health

- Agriculture
- Animal-human interactions
- Antimicrobial resistance
- Carbon footprint
- Climate
- Climate stressors (heat, drought, weather variability)
- Disease prevention
- Ecology
- Environmental health
- Environmental justice
- Extreme weather event
- Food and agriculture policy
- Food loss and waste
- Food safety
- Food systems
- Greenhouse gases
- Human health
- Innovation
- Life cycle assessment (LCA)
- Microbiome
- Nutrition security
- One Health
- Planetary health
- Plant health
- Public health
- Soil health
- Sustainable agriculture
- Sustainable nutrition
- Transdisciplinary research
- Vector-borne diseases
- Water security
- Zoonotic diseases

## Clinical Case Study

- Case study

## Clinical Nutrition

- Cardiovascular/Hypertension/CHF
- Clinical assessment
- Complementary and alternative medicine
- Critical care nutrition
- Cystic fibrosis
- Developmental disabilities
- Diabetes/Prediabetes/Gestational diabetes
- Digital health and technology-assisted nutrition interventions
- Eating disorders and disordered eating
- GI - Celiac/IBS/IBD/SIBO/SBS
- GI - Maldigestion/Malabsorption
- HIV/AIDS
- Liver - Acute
- Liver - Chronic
- Malnutrition in the clinical setting
- Metabolic Stress/Inflammation/Hypermetabolism
- Men's health
- Neurodegenerative disease – Alzheimer's, Parkinson's
- Nutrition counseling and behavior change Nutrition support
- Obesity treatments/Bariatric surgery
- Oncologic
- Other populations - amputees, vegetative states, hospice
- Precision and personalized nutrition Pulmonary - Asthma, COPD, ARS
- Renal or kidney disease
- Surgical prehabilitation and rehabilitation
- Transplantation: Organ
- Transplantation: Stem Cell
- Women's health
- Wounds

## Community and Public Health Nutrition

- Acculturation
- Community interventions
- Community-based participatory research
- Data and use of AI
- Food security
- Food assistance programs
- Food environment
- Food as Medicine
- Health disparities and inequities
- Implementation science
- Multi-sectoral partnerships (e.g., community/non-profit, academia, government, industry)
- Non-communicable disease prevention
- Nutrition at life stages
- Nutrition education and social/behavioral change
- Nutrition security
- Physical activity
- Qualitative methods
- Social determinants of health (SDOH)
- Tech/innovative intervention
- Water security

## Diet and Cancer

- Biomarkers
- Body composition
- Cancer immunoprevention
- Cancer prevention
- Carcinogenesis
- Clinical trials
- Dietary bioactive compounds
- Dietary patterns
- Energy balance
- Epigenetics
- Food security
- Foods and nutrients
- Genetics
- Mechanistic study
- Metabolism
- Metabolomics
- Microbiome
- Nutrient assessment
- Nutritional biochemistry
- Omics
- Personalized/precision nutrition
- Population science
- Survivorship

## Dietary Bioactive Components

- Antioxidants
- Biomarkers
- Dietary supplements
- Fiber
- Functional food
- Glucosinolates
- Gut microbiome
- Health and disease
- Inflammation
- Mechanisms
- Metabolism
- Metabolomics
- Non-nutritive bioactive
- Nutraceutical
- Omega-3 fatty acid
- Oxidative stress
- Phytochemicals
- Polyphenols
- Prebiotics
- Probiotics

## Dietary Patterns

- Dairy
- Diet quality
- Dietary assessment
- Fruits and vegetables
- Mediterranean diet
- Nutrient density

## Digital Health and Technology-Based Nutrition Interventions

- Continuous glucose monitoring
- Digital behavior change interventions
- Digital dietary assessment
- Digital therapeutics
- Mobile health (mHealth)
- Nutrition tracking applications
- Remote patient monitoring
- Telehealth
- Virtual nutrition counseling
- Wearable devices

## Eating Frequency and Chrononutrition

- Chronobiology
- Chrononutrition
- Circadian rhythms
- Intermittent fasting
- Meal timing

## Education and Teaching, including Clinician Education

- Career/professional development
- Clinician education
- Curriculum
- Health professional education
- Medical school education
- Nutrition workforce
- Innovations in education/training
- Interprofessional education
- Learning assessment
- Physician education

## Energy and Macronutrient Metabolism

- Alcohol
- Body composition
- Carbohydrate metabolism
- Energy expenditure, intake, and balance
- Epigenetic regulation
- Exercise metabolism
- Fatty acid/lipid metabolism
- Fiber
- Ketone bodies
- Meal timing/chrononutrition
- Metabolomics
- Muscle metabolism
- Protein/amino acids metabolism
- Substrate oxidation
- Supplementation

## Experimental/Companion Animal Nutrition

- Cancer
- Canine and feline metabolism
- Companion animal food ingredients
- Companion animal food regulations
- Companion animal nutrition and disease
- Companion animal processing technologies
- Developmental programming/DOHaD (maternal and paternal)
- Diet-induced disease models (obesity, diabetes mellitus, MASLD, and atherosclerosis)
- Dietary bioactive compounds
- Health
- Kidney/renal disease
- Large animal models (swine, non-human primates)
- Metabolism
- Microbiome
- Neuroscience and behavior
- Nutrition interventions
- Omics
- Osteoporosis
- Physiological state
- Rodent models (mouse, rat, hamster, guinea pig)

## Food as Medicine

- Chronic disease management
- Community-based participatory research
- Culinary innovation
- Culinary interventions
- Culinary medicine
- Diet-related diseases
- Disease prevention
- Food literacy
- Food preparation
- Food systems
- Health disparities
- Health equity
- Health systems
- Healthcare integration
- Healthy cooking
- Lifestyle interventions
- Medically tailored groceries
- Medically tailored meals
- Nutrient-dense Foods
- Nutrition interventions
- Nutrition security
- Patients
- Payors
- Plant-based diets
- Policy change
- Precision nutrition
- Produce prescription programs
- Providers
- Teaching kitchens

## Food Choice, Markets, and Policy

- Alcohol
- Amino acid metabolism
- Consumer behavior
- Cost-effectiveness
- Diet quality
- Economic evaluation
- Food assistance programs
- Food costs
- Food environment
- Food security
- Food systems
- Policy

## Food Ingredients, Processing, and Health

- Food additives
- Food composition
- Food formulation and reformulation
- Food ingredients
- Food matrix
- Food packaging
- Food processing
- Food processing classification systems
- Food science and technology
- Fortification
- Innovations in nutrition and food science
- Nutrient bioavailability
- Nutritional quality
- Processed foods
- Ultra-processed foods

## Global Nutrition

- Adolescent nutrition
- Anemia
- Food security
- Food systems
- Implementation science
- Infant and child feeding
- Infection/Inflammation
- Maternal nutrition
- Micronutrient deficiencies
- Non-communicable disease
- Nutrition programs
- Nutrition security
- Overweight and obesity
- Policy
- Vulnerable populations
- Wasting/stunting and growth failure
- Water security

## Hydration and Health

- Beverages
- Beverage choice
- Chronic disease
- Cognitive function
- Dehydration
- Electrolyte balance
- Fluid balance
- Functional beverages and sports drinks
- Health outcomes
- Hydration status
- Hydration and physical performance
- Hydration assessment
- Hydration interventions
- Hydration supplements/products
- Metabolic health
- Rehydration
- Renal function
- Thirst

## Implementation Science

- Dissemination and implementation research
- Evaluation
- Evidence-based practice
- Implementation barriers and facilitators
- Implementation equity
- Implementation frameworks/models
- Implementation outcomes
- Implementation strategies
- Scale-up and sustainability

## Maternal, Perinatal, and Pediatric Nutrition

- Breastfeeding/formula feeding
- Cardiometabolic outcomes (mother or child)
- Childhood growth/neurodevelopmental/disease outcomes
- Complementary diet/food packaging
- Developmental origins of health and disease (DOHaD)
- Diet quality/nutrient adequacy
- Epigenetics
- Food security
- Genetics
- Health disparities/equity
- Social determinants of health (SDOH)
- Human milk/infant formula composition
- Infant and child adiposity
- Infant feeding behaviors/styles
- Lactation physiology
- Maternal malnutrition (under and over nourishment)
- Mental health (mother or child)
- Microbiome
- Neighborhood environment
- Pregnancy complications/birth outcomes
- Pregnancy nutrition/diet/supplementation
- Pregnancy weight gain
- Preterm infants

## Methods

- Assay development
- Biomarkers
- Dietary assessment
- Energy balance
- Nutrition implementation research
- Qualitative research
- Remote patient monitoring
- Research methods
- Simulation
- Study design
- Validation and measurement science

## Nutrition Education and Behavioral Science

- Behavior change
- Behavior modification theory (or behavioral theory)
- Behavior science
- Behavioral nutrition interventions
- Choice behavior
- eNutrition literacy
- Feeding behavior
- Food literacy
- Food security
- Formative research
- Health behavior
- Healthy lifestyles
- Interprofessional education
- Mindful eating
- Mobile health (mHealth)
- Nutrition behavior
- Nutrition behavior assessment
- Nutrition communication
- Nutrition counseling
- Nutrition curriculum
- Nutrition education
- Nutrition education intervention (for any setting including community)
- Nutrition education program
- Nutrition education program evaluation
- Nutrition knowledge
- Nutrition literacy
- Nutrition survey
- Physical activity
- Psychosocial mediators of behavior change
- Qualitative research
- Quantitative research
- Questionnaire
- Questionnaire development
- Survey screening tool evaluation
- Technology for nutrition education and behavior change
- Theory-based interventions

## Nutrition Translation and Communications

- Animal models of disease
- Clinical trials
- Cognition
- Consumer, applied and therapeutic nutrition
- Databases and big data
- Dietary assessment
- Dietary quality
- Dietary patterns
- Food science and technology
- Neuroscience
- Non-nutritive sweeteners
- Nutrition communication
- Nutrition translation
- Postbiotics
- Prebiotics
- Postbiotics
- Product development
- Public policy and regulation
- Ultra-processed foods

## Nutrition, Brain, and Mental Health

- Aging
- Brain
- Chronobiology
- Cognition
- Dementia/Alzheimer's Disease
- Dietary interventions for mental health
- Dietary supplements
- Eating disorders and disordered eating
- Early development
- Gut-brain axis
- Mental health
- Mitochondria
- Mood and emotional regulation
- Neurodegenerative diseases
- Neurobiology
- Neuroscience
- Obesity
- Public health
- Vitamin D

## Nutritional Biomarkers

- Biomarker discovery
- Biomarker validation
- Biomarkers of aging
- Dietary intake
- Emerging applications
- Inflammatory biomarkers
- Lipidomics
- Metabolic biomarkers
- Metabolomics
- Micronutrient status
- Multi-omics
- Nutrient deficiencies
- Nutritional status
- Proteomics

## Nutritional Epidemiology

- Animal models of disease
- Clinical trials
- Cognition
- Consumer, applied and therapeutic nutrition
- Databases and big data
- Dietary assessment
- Dietary quality
- Plant-based dietary patterns
- Food science and technology
- Lipidomics
- Metabolomics
- Microbiome
- Neuroscience
- Non-nutritive sweeteners
- Nutrition communication
- Nutrition translation
- Omics
- Postbiotics
- Prebiotics
- Postbiotics
- Product development
- Proteomics
- Public policy and regulation
- Ultra-processed foods

## Nutritional Immunology, Inflammation, and Immunometabolism

- Adaptive
- Antigen
- Immune cells
- Immunity (immune, immunotherapy, immunometabolism, etc.)
- Infection
- Inflammation
- Innate
- Pathogen

## Nutritional Microbiology, Microbiome, and Microbiome Nutrition

- Aging
- Animal models
- Infant and maternal nutrition
- Chronic disease
- Dietary interventions
- Dietary patterns
- Epidemiology
- Energy metabolism
- Fermented foods
- Fiber
- Gut-brain axis
- Host-microbe interactions
- In vitro models
- Metabolomics
- Metagenomics
- Microbiome
- Microbiome nutrition
- Mycobiome
- Non-nutritive compounds
- Physical activity
- Polyphenols
- Postbiotics
- Prebiotics
- Probiotics
- Virome

## Obesity

- Across the lifespan
- Appetite
- Behavior change
- Body composition
- Childhood
- Developmental origins of health and disease (DOHaD)
- Diabetes/Prediabetes
- Dietary patterns
- Dyslipidemia
- eHealth/mHealth/virtual interventions
- Food noise
- Hypertension
- Ingestive behavior
- Insulin resistance [KE1.1]
- Macronutrient
- Meal timing/circadian influences
- Metabolic Dysfunction-Associated Steatotic Liver Disease (MASLD)
- Metabolic syndrome
- Microbiome
- Neurobiology
- Obesity treatment mediators/moderators/predictors
- Physical activity
- Sedentary behavior
- Social determinants of health (SDOH)
- Ultra-processed foods
- Weight maintenance and weight regain
- Weight stigma

## Obesity Pharmacotherapy and Nutrition

- Anti-obesity medications
- Appetite regulation
- Body composition
- Dietary intake
- Dietary supplements
- Food noise
- Functional foods
- Gastrointestinal tolerability
- GLP-1 receptor agonists
- Incretin-based therapies
- Lean mass preservation
- Medical nutrition therapy
- Medication discontinuation
- Metabolic and cardiometabolic outcomes
- Micronutrient status and deficiencies
- Muscle health
- NuSH (nutrient-stimulated hormone) therapies
- Nutrition interventions during pharmacotherapy
- Obesity pharmacotherapy
- Protein intake
- Sarcopenia
- Weight maintenance and weight regain

## Policies and Regulations

- Dietary guidelines
- Fortification
- Cost-effectiveness
- Policy
- Labeling
- Implementation
- Malnutrition
- Multi-sectoral partnerships (e.g., community/non-profit, academia, government, industry)
- Ultra-processed foods

## Precision Nutrition, Nutrient-Gene Interactions, and Omics

- Artificial intelligence (AI)
- Biomarkers
- Complex diseases
- Epigenetics
- Genetics
- Mendelian randomization analysis
- Metabolomics
- Nutrient assessment
- Nutritional biochemistry
- Omics
- Personalized/precision nutrition
- Transcriptomics

## Protein Intake and Health

- Aging/longevity
- Alternative proteins
- Animal-based protein
- GLP-1
- Muscle growth
- Physiology
- Plant-based protein
- Protein intake
- Supplementation
- Weight loss

## Protocols

- Assay development
- Biomarkers
- Dietary assessment
- Energy balance
- Simulation

## Sports/Performance Nutrition

- Carbohydrate metabolism
- Energy balance and expenditure
- Endurance exercise
- Fat, fatty acid metabolism, and ketone bodies
- Hydration
- Muscle physiology
- Nutritional supplementation and ergogenic aids
- Physical performance
- Protein and amino acids
- Psychological well-being and cognition
- Recovery nutrition
- Resistance training
- Vitamins, minerals, and bioactive nutrients

## Vitamins and Minerals

- Antioxidants
- B vitamins and one-carbon metabolism
- Dietary supplements
- Fortification
- Micronutrient bioavailability and antioxidant function
- Micronutrient interventions
- Selenium
- Trace element transport and homeostasis
- Vitamin D
- Vitamin K
- Water and fat soluble vitamins
- Zinc

## Women's Nutrition and Health Across the Lifespan

- Bone health and osteoporosis
- Cardiometabolic health in women
- Preconception
- Fertility
- Healthy aging
- Hormonal influences on nutrition and metabolism
- Menopause
- Nutrition interventions for women
- Perimenopause
- Reproductive health