

Program Summary by Theme

Plenary Sessions

ThP1P	Opening Ceremony - Keynote Session	31 Aug THU	07:45-09:00	Broadway Ballroom
ThP2P	Plenary Session I Molecular Imaging	31 Aug THU	13:00-14:00	Broadway Ballroom
ThD10	Plenary Session II Functional Tissue Engineering	31 Aug THU	15:45-16:30	Astor Ballroom
FrP1P	Plenary Session III Neural Engineering	1 Sep FRI	08:00-09:00	Broadway Ballroom
FrP2P	Plenary Session IV Nano Technologies for Biomedical Applications	1 Sep FRI	13:00-14:00	Broadway Ballroom
SaP1P	Plenary Session V Computational Biology and Bio-Informatics	2 Sep SAT	08:00-09:00	Broadway Ballroom
SaP2P	Plenary Session VI Innovations in Pharmaceuticals Industry	2 Sep SAT	13:00-14:00	Broadway Ballroom
SuP1P	Plenary Session VII Bio-Counterterrorism Technologies	3 Sep SUN	08:00-09:00	Broadway Ballroom

Minisymposia and Special Sessions

WeC16	MS.1.1	Advances in Medical Infrared Imaging	30 Aug WED	14:45-16:15	O'Neill
WeC07	MS.2.1	Biomedical Information Network: Networking and Wireless Integration of Medical Devices on a Common and Shared Infrastructure	30 Aug WED	13:00-14:30	Cantor-Jolson
WeC12	MS.3.1	Coordination Physiological Rhythms Part 1: Fundamentals and Circadian Rhythms	30 Aug WED	13:00-14:30	Palace Wintergarden
WeD12	MS.4.1	Coordination Physiological Rhythms Part 2: Cardiovascular and other Coordinated Rhythms	30 Aug WED	14:45-16:15	Palace Wintergarden
SaB11	MS.5.1	Critical (Medical) Information Protection: A Privacy/Security and Information Assurance Debate	2 Sep SAT	10:45-12:15	Belasco
SaC11	MS.6.1	Federal Funding Opportunities for Bioengineering	2 Sep SAT	14:00-15:30	Belasco
WeC13	MS.7.1	Industry/Academia Interaction	30 Aug WED	13:00-14:30	Brecht
WeC14	MS.8.1	New Techniques in Rehabilitation I	30 Aug WED	13:00-14:30	Chelsea-Gotham
ThC15	MS.9.1	Recent Advances in Multi-Modality Vascular Imaging	31 Aug THU	14:00-15:30	O'Neill
ThC14	MS.10.1	Special Forum on EMBS Publications	31 Aug THU	14:00-15:30	Chelsea-Gotham
SaD10	MS.11.1	Students: The Movers and Shakers of EMBS	2 Sep SAT	15:45-17:15	Astor Ballroom
SuA11	MS.12.1	Successful Grant Proposal Writing	3 Sep SUN	09:00-10:30	Belasco
SaC10	MS.13.1	Survival 101 for BME Graduate Research	2 Sep SAT	14:00-15:30	Astor Ballroom
WeC03	MS.14.1	System Biology Approaches to Cancer Drug Discovery	30 Aug WED	13:00-14:30	SoHo-Herald
WeC10	MS.15.1	System Theory in Medical Diagnostic Devices	30 Aug WED	13:00-14:30	Astor Ballroom
ThC10	MS.16.1	Technical Issues of Image Registration in PET-CT and SPECT-CT Systems	31 Aug THU	14:00-15:30	Astor Ballroom
WeD10	MS.17.1	The MyHeart Project - Fighting Cardiovascular Diseases by Prevention and Early Diagnosis	30 Aug WED	14:45-16:15	Astor Ballroom
FrC12	MS.20.1	Linking Biocomputation with Nanotechnology for Personalized Medicine	1 Sep FRI	14:00-15:30	Palace Wintergarden
ThC13	MS.21.1	Therapeutic Neural Engineering	31 Aug THU	14:00-15:30	Brecht
ThA10	SS.1.1	The Roads Well Laid (BME Careers at a Glance – I)	31 Aug THU	09:00-10:30	Astor Ballroom
ThB10	SS.2.1	The Paths Less Traveled (BME Careers at a Glance – II)	31 Aug THU	10:45-12:15	Astor Ballroom

SaA10	SS.3.1	BME Careers at a Glance III		2 Sep SAT	09:00-10:30	Astor Ballroom
SaB10	SS.4.1	BME Careers at a Glance IV		2 Sep SAT	10:45-12:15	Astor Ballroom
FrB11	SS.5.1	Student Design Competition		1 Sep FRI	10:45-12:15	Belasco
ThB11	SS.6.1	Student Paper Competition		31 Aug THU	10:45-12:15	Belasco
ThC11	SS.6.2	Student Paper Competition		31 Aug THU	14:00-15:30	Belasco
FrA11	SS.6.3	Student Paper Competition		1 Sep FRI	09:00-10:30	Belasco

Theme 1: Biomedical Signal Processing

FrB01	1.1.1	Time-Frequency Analysis in Central Nervous System	Oral	1 Sep FRI	10:45-12:15	Marquis AB
WeC01	1.1.2	Time-Frequency Analysis	Oral	30 Aug WED	13:00-14:30	Marquis AB
ThC01	1.1.3	Time-Frequency Analysis in Cardiovascular System	Oral	31 Aug THU	14:00-15:30	Marquis AB
ThEP3	1.1.4	Biomedical Signal Processing I: Time-Frequency and Wavelet Analysis	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
SaB01	1.2.1	High-Order Spectral Analysis and other Advanced Methods of Biomedical Signal Processing	Oral	2 Sep SAT	10:45-12:15	Marquis AB
SuB01	1.2.2	Spectral Analysis in Signals of Central Nervous System	Oral	3 Sep SUN	10:45-12:15	Marquis AB
SaA01	1.3.1	EEG Signal Processing and Modeling	Oral	2 Sep SAT	09:00-10:30	Marquis AB
SaB04	1.3.2	Signal Processing and Modeling in Central and Peripheral Nervous System	Oral	2 Sep SAT	10:45-12:15	Ziegfeld
FrA01	1.3.3	Signal Processing and Modeling in Biological Systems I	Oral	1 Sep FRI	09:00-10:30	Marquis AB
SuA01	1.3.4	Signal Processing and Modeling in Brain-Computer Interface	Oral	3 Sep SUN	09:00-10:30	Marquis AB
ThA01	1.3.5	Signal Processing and Modeling in Biological Systems II	Oral	31 Aug THU	09:00-10:30	Marquis AB
ThBP13	1.3.6	Biomedical Signal Processing and Physiological Modeling I	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
ThBP14	1.3.7	Biomedical Signal Processing and Physiological Modeling II	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
ThEP2	1.3.8	Biomedical Signal Processing and Physiological Modeling III	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
FrEP1	1.3.9	Biomedical Signal Processing II	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
WeD01	1.3.10	Special Session: Linear and Nonlinear Analysis	Oral	30 Aug WED	14:45-16:15	Marquis AB
FrC06	1.3.11	Signal Processing and Modeling in Biological Systems III	Oral	1 Sep FRI	14:00-15:30	Empire Hudson
SaD04	1.4.1	Nonlinear Brain Signal Processing and Modeling	Oral	2 Sep SAT	15:45-17:15	Ziegfeld
SuA02	1.4.2	Non Linear Dynamics in Brain Signal Analysis	Oral	3 Sep SUN	09:00-10:30	Marquis C
ThB03	1.4.3	Non Linear Dynamics in Biological Signals I	Oral	31 Aug THU	10:45-12:15	SoHo-Herald
ThC03	1.4.4	Non Linear Dynamics in Cardio-Respiratory System I	Oral	31 Aug THU	14:00-15:30	SoHo-Herald
FrD01	1.4.5	Non Linear Dynamics in Biological Signals II	Oral	1 Sep FRI	15:45-17:15	Marquis AB
SaEP13	1.4.6	Nonlinear Dynamic Analysis of Biological Signals II	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
SaA03	1.4.7	Non Linear Dynamics in Cardio-Respiratory Systems II	Oral	2 Sep SAT	09:00-10:30	SoHo-Herald
FrD06	1.5.1	Applications of Neural Networks to Biosignal Analysis I	Oral	1 Sep FRI	15:45-17:15	Empire Hudson
FrB03	1.5.2	Applications of Neural Networks to Biosignal Analysis II	Oral	1 Sep FRI	10:45-12:15	SoHo-Herald
SaC04	1.5.3	Applications of Neural Networks to Biosignal Analysis III	Oral	2 Sep SAT	14:00-15:30	Ziegfeld
FrA03	1.5.4	Neural Networks and Support Vector Machines in Biological Signal Processing	Poster	1 Sep FRI	09:00-10:30	SoHo-Herald

SaC01	1.6.1	Principal Component Analysis, Independent Components Analysis I	Oral	2 Sep SAT	14:00-15:30	Marquis AB
ThB01	1.6.2	Principal Component Analysis, Independent Components Analysis II	Oral	31 Aug THU	10:45-12:15	Marquis AB
FrC01	1.6.3	Principal Component Analysis, Independent Components Analysis III	Oral	1 Sep FRI	14:00-15:30	Marquis AB
SaD01	1.6.4	Principal Component Analysis, Independent Component Analysis IV	Oral	2 Sep SAT	15:45-17:15	Marquis AB
SaEP1	1.6.5	Principal Component and Independent Component Analysis	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
FrC15	1.7.1	Adaptive, Parametric and Optimal Filtering I	Oral	1 Sep FRI	14:00-15:30	O'Neill
ThA03	1.7.2	Adaptive, Parametric and Optimal Filtering II	Oral	31 Aug THU	09:00-10:30	SoHo-Herald
FrD15	1.7.3	Linear and Nonlinear Adaptive Filters	Oral	1 Sep FRI	15:45-17:15	O'Neill

Theme 2: Biomedical Imaging and Image Processing

WeC02	2.1.1	Functional Magnetic Resonance Imaging	Oral	30 Aug WED	13:00-14:30	Marquis C
WeD02	2.1.2	MRI: Instrumentation and Analysis	Oral	30 Aug WED	14:45-16:15	Marquis C
ThA02	2.1.3	MRI: Novel Applications	Oral	31 Aug THU	09:00-10:30	Marquis C
ThB02	2.1.4	MRI: Novel Methods	Oral	31 Aug THU	10:45-12:15	Marquis C
ThEP8	2.1.5	Magnetic Resonance Imaging	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
ThEP9	2.1.6	Magnetic Resonance Imaging II	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
WeD08	2.1.24	Magnetic Resonance Imaging I	Oral	30 Aug WED	14:45-16:15	Brecht
ThEP10	2.2.1	Optical Imaging and Microscopy	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
WeC09	2.2.2	Optical Coherence Tomography	Oral	30 Aug WED	13:00-14:30	Gramercy-Olmstead
WeD09	2.2.3	Optical Imaging	Oral	30 Aug WED	14:45-16:15	Gramercy-Olmstead
FrA13	2.2.4	Optical Tomographic Imaging I	Oral	1 Sep FRI	09:00-10:30	Brecht
FrB13	2.2.5	Optical Tomographic Imaging II	Oral	1 Sep FRI	10:45-12:15	Brecht
FrD13	2.2.6	Oral Presentation: Optical Imaging II	Oral	1 Sep FRI	15:45-17:15	Brecht
SaA02	2.3.1	Electrical Impedance Imaging I	Oral	2 Sep SAT	09:00-10:30	Marquis C
SaB02	2.3.2	Electrical Source Imaging	Oral	2 Sep SAT	10:45-12:15	Marquis C
ThBP5	2.3.3	Bioelectromagnetism	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
ThBP6	2.3.4	Electrical Impedance Imaging II	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
ThB16	2.4.1	Biomedical Infrared Imaging	Oral	31 Aug THU	10:45-12:15	Music Box-Majestic
FrA06	2.4.2	Diffusion Tensor Imaging	Oral	1 Sep FRI	09:00-10:30	Empire-Hudson
ThEP11	2.4.3	X-Ray, CT, PET, SPECT, Ultrasound and Infrared Imaging	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
FrBP1	2.4.4	Ultrasound Imaging II	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
FrA15	2.4.5	Ultrasound Imaging I	Oral	1 Sep FRI	09:00-10:30	O'Neill
FrBP2	2.4.6	Infrared/Ultrasound/SPECT/CT Imaging	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
FrBP3	2.4.7	Multi-Modality Breast Imaging	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
FrB06	2.5.1	Image Reconstruction	Oral	1 Sep FRI	10:45-12:15	Empire-Hudson

FrEP2	2.5.2	Image Reconstruction I	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
ThC02	2.6.1	Image Registration I	Oral	31 Aug THU	14:00-15:30	Marquis C
FrD10	2.6.2	Image Segmentation and Analysis	Oral	1 Sep FRI	15:45-17:15	Astor Ballroom
FrC02	2.6.3	Image Segmentation I	Oral	1 Sep FRI	14:00-15:30	Marquis C
FrA10	2.6.4	Segmentation, Classification, Counting, and Feature Computation	Oral	1 Sep FRI	09:00-10:30	Astor Ballroom
FrBP14	2.6.5	Image Registration II	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
FrBP15	2.6.6	Image Segmentation II	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
FrBP13	2.6.7	Segmentation, Classification, Counting, and Feature Computation II	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
SaC02	2.6.8	3D Image Modeling and Registration	Oral	2 Sep SAT	14:00-15:30	Marquis C
FrD02	2.7.1	Biomedical Image Analysis	Oral	1 Sep FRI	15:45-17:15	Marquis C
FrB10	2.7.2	Image Analysis: Applications I	Oral	1 Sep FRI	10:45-12:15	Astor Ballroom
FrC10	2.7.3	Medical watermarking, Denoising, Resampling, Filtering, and Coding	Oral	1 Sep FRI	14:00-15:30	Astor Ballroom
SaA12	2.7.4	Retinal Image Analysis I	Oral	2 Sep SAT	09:00-10:30	Palace-Winter Garden
SaBP1	2.7.5	Image Analysis: Applications II	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
SaBP2	2.7.6	Image Processing and Analysis	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
SaB12	2.7.7	Retinal Image Analysis II	Oral	2 Sep SAT	10:45-12:15	Palace-Winter Garden
FrC13	2.8.1	Image Retrieval, Visualization, and Volume Rendering	Oral	1 Sep FRI	14:00-15:30	Brecht
SaBP3	2.8.2	Image Retrieval, Visualization, and Volume Rendering II	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
WeC11	2.9.1	Image-Guided Surgery and Treatment I	Oral	30 Aug WED	13:00-14:30	Music Box-Majestic
WeD11	2.9.2	Image-Guided Surgery and Treatment II	Oral	30 Aug WED	14:45-16:15	Music Box-Majestic
FrEP3	2.9.3	Image-Guided Surgery and Treatment III	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
ThBP3	2.10.1	Neural Imaging	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
ThBP2	2.10.2	Electrophysiological Neuroimaging - 2	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
ThA13	2.10.3	Special Session: Neural Imaging and Sensing II	Oral	31 Aug THU	09:00-10:30	Brecht
ThA15	2.11.1	Cardiac Imaging I	Oral	31 Aug THU	09:00-10:30	O'Neill
ThB15	2.11.2	Cardiac Imaging II	Oral	31 Aug THU	10:45-12:15	O'Neill
FrD12	2.11.3	Electrophysiological Neuroimaging	Oral	1 Sep FRI	15:45-17:15	Palace-Winter Garden
ThBP4	2.11.4	Cardiac Imaging IV	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
ThC08	2.11.5	Special Session on Cardiac Imaging	Oral	31 Aug THU	14:00-15:30	Juilliard

Theme 3: Bioinformatics and Computational Biology

FrD03	3.1.1	Algorithm and Software System for Bioinformatics	Oral	1 Sep FRI	15:45-17:15	SoHo-Herald
SaEP2	3.1.2	Algorithm and Software System for Bioinformatics, 2	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
ThEP12	3.1.3	Methods and Applications in Bioinformatics and Systems Biology	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
SaB03	3.2.1	Computational Genomics, Epigenomics, and Proteomics I	Oral	2 Sep SAT	10:45-12:15	SoHo-Herald

SaEP3	3.2.2	Computational Genomics, Epigenomics, and Proteomics II	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
FrB15	3.2.3	Computational Genomics	Oral	1 Sep FRI	10:45-12:15	O'Neill
SaD03	3.4.1	Regulatory Elements, Gene Expression, and Gene Networks 1	Oral	2 Sep SAT	15:45-17:15	SoHo-Herald
SaEP4	3.4.2	Regulatory Elements, Gene Expression, and Gene Networks 2	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
FrC03	3.5.1	Mathematical Modeling and Simulation of Molecules and Cells I	Oral	1 Sep FRI	14:00-15:30	SoHo-Herald
FrEP14	3.5.2	Mathematical Modeling and Simulation of Molecules and Cells II	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
SaC03	3.8.1	Novel Technologies for Computational Biology and Bioinformatics, 1	Oral	2 Sep SAT	14:00-15:30	SoHo-Herald
FrEP15	3.8.2	Novel Technologies for Computational Biology and Bioinformatics, 2	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.

Theme 4: Micro- and Nano- Biotechnologies

FrEP12	4.1.2	Micro Instrumentation and Imaging II	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
ThC04	4.2.1	Nanomedicine and Bio-Nanostructures	Oral	31 Aug THU	14:00-15:30	Ziegfeld
FrA04	4.4.1	Micro robotics	Oral	1 Sep FRI	09:00-10:30	Ziegfeld
FrB04	4.5.1	Micro fluidics	Oral	1 Sep FRI	10:45-12:15	Ziegfeld
FrBP6	4.5.2	Micro fluidics II	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
SaA04	4.6.1	Micro Instrumentation and Imaging	Oral	2 Sep SAT	09:00-10:30	Ziegfeld
FrC04	4.6.2	Micro-Implanted devices	Oral	1 Sep FRI	14:00-15:30	Ziegfeld
FrBP4	4.6.3	Micro-Implanted devices II	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
FrBP5	4.6.4	Micro robotics II	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
FrD04	4.7.1	New technologies for micro sensors	Oral	1 Sep FRI	15:45-17:15	Ziegfeld
FrBP7	4.7.2	New technologies for micro sensors II	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.

Theme 5: Bio-Sensors: Bio-Instrumentation and Wearable Technology

ThA05	5.1.1	Advances in Sensor Technology I	Oral	31 Aug THU	09:00-10:30	Duffy-Columbia
SaA05	5.1.2	Advances in Sensor Technology II	Oral	2 Sep SAT	09:00-10:30	Duffy-Columbia
SaB05	5.1.3	Biological and chemical sensors	Oral	2 Sep SAT	10:45-12:15	Duffy-Columbia
ThEP7	5.3.1	Advances in Sensor Technology 3	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
FrEP13	5.3.4	Advances in Sensor Technology 4	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
ThB05	5.5.1	Fiber optic and photonic sensors	Oral	31 Aug THU	10:45-12:15	Duffy-Columbia
ThB14	5.6.1	Wireless sensors and telemetry systems 1	Oral	31 Aug THU	10:45-12:15	Chelsea-Gotham
SuA03	5.6.2	Wireless Sensors and Telemetry Systems II	Oral	3 Sep SUN	09:00-10:30	SoHo-Herald
SaEP5	5.6.3	Wireless sensors and telemetry systems 3	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
ThEP13	5.6.4	Wireless sensors and telemetry systems 4	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
ThC05	5.7.1	Applications of Wearable Technology	Oral	31 Aug THU	14:00-15:30	Duffy-Columbia
SaEP8	5.7.2	Wearable Technology 2	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
SaEP6	5.7.3	Wearable Technology 1	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.

SaEP7	5.7.4	Wearable Sensors and Devices 4	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
SaEP9	5.7.5	Wearable Sensors and Devices 5	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
FrB05	5.7.6	Wearable Sensors and Devices 2	Oral	1 Sep FRI	10:45-12:15	Duffy-Columbia
SuA05	5.7.7	Wearable Sensors and Devices 3	Oral	3 Sep SUN	09:00-10:30	Duffy-Columbia
FrD05	5.7.8	Wearable Sensors and Devices I	Oral	1 Sep FRI	15:45-17:15	Duffy-Columbia
FrC05	5.9.1	Diagnostic Instrumentation and Physiological Measurement 1	Oral	1 Sep FRI	14:00-15:30	Duffy-Columbia
SaEP10	5.9.2	Diagnostic Instrumentation and Physiological Measurements 2	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
SaBP8	5.9.3	Diagnostic Instrumentation and Physiological Measurements 3	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
SaBP9	5.9.4	Diagnostic Instrumentation and Physiological Measurements 4	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
FrA05	5.10.1	Monitoring Sensors and Systems I	Oral	1 Sep FRI	09:00-10:30	Duffy-Columbia
SaD05	5.10.2	Monitoring Sensors and Systems II	Oral	2 Sep SAT	15:45-17:15	Duffy-Columbia
SuB05	5.10.3	Sensors and Systems	Oral	3 Sep SUN	10:45-12:15	Duffy-Columbia
ThA14	5.11.1	Therapeutic Devices 1	Oral	31 Aug THU	09:00-10:30	Chelsea-Gotham
SuB03	5.11.2	Therapeutic Devices 2	Oral	3 Sep SUN	10:45-12:15	SoHo-Herald
SaBP6	5.11.3	Therapeutic Devices 3	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
SaC05	5.12.1	Sensors and Systems for E-Health, M-Health, and P-Health 1	Oral	2 Sep SAT	14:00-15:30	Duffy-Columbia

Theme 6: Cellular and Functional Tissue Engineering

ThA11	6.1.1	Cellular and Molecular Engineering	Oral	31 Aug THU	09:00-10:30	Belasco
ThB07	6.4.1	Functional Cardiac Tissue engineering	Oral	31 Aug THU	10:45-12:15	Cantor-Jolson
ThEP14	6.4.2	Cellular and Functional Tissue Engineering	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
ThA04	6.5.1	Functional Musculoskeletal Tissue Engineering – Bone Tissue Engineering	Oral	31 Aug THU	09:00-10:30	Ziegfeld
ThB04	6.5.2	Functional Musculoskeletal Tissue Engineering – Soft Tissue Engineering	Oral	31 Aug THU	10:45-12:15	Ziegfeld
FrA12	6.6.1	Biomaterials and Cell-Biomaterial Interactions	Oral	1 Sep FRI	09:00-10:30	Palace-Winter Garden
FrB12	6.6.2	Biomaterials and Cell-Biomaterial Interactions - Stem Cells	Oral	1 Sep FRI	10:45-12:15	Palace-Winter Garden

Theme 7: Pharmaceutical Studies: Drug Delivery and Gene Therapy

SaA06	7.1.1	Novel carriers for drug and gene delivery	Oral	2 Sep SAT	09:00-10:30	Empire-Hudson
SaBP7	7.3.1	Pharmacokinetics and dynamics	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
WeC04	7.3.2	Pharmacokinetics and Dynamics: Glucose Sensors and Diabetes Control	Oral	30 Aug WED	13:00-14:30	Ziegfeld
WeD04	7.3.3	Pharmacokinetics and dynamics: Glucose-insulin modeling in health and diabetes	Oral	30 Aug WED	14:45-16:15	Ziegfeld
SaD07	7.4.1	Drug delivery and imaging	Oral	2 Sep SAT	15:45-17:15	Cantor-Jolson

Theme 8: Biomechanics: Bio-Robotics and Surgical Planning

WeC06	8.1.1	Biomechanics I	Oral	30 Aug WED	13:00-14:30	Empire-Hudson
ThC07	8.1.2	Biomechanics II	Oral	31 Aug THU	14:00-15:30	Cantor-Jolson

FrD11	8.1.3	Biomechanics III	Oral	1 Sep FRI	15:45-17:15	Belasco
ThEP4	8.1.4	Biomechanics	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
WeD06	8.3.1	Surgical Robotics I	Oral	30 Aug WED	14:45-16:15	Empire-Hudson
ThA06	8.3.2	Surgical Robotics II	Oral	31 Aug THU	09:00-10:30	Empire-Hudson
ThB06	8.3.3	Surgical Robotics III	Oral	31 Aug THU	10:45-12:15	Empire-Hudson
ThC06	8.3.4	Surgical Robotics IV	Oral	31 Aug THU	14:00-15:30	Empire-Hudson
FrEP4	8.3.5	Surgical and Bio-Robotics	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
FrA16	8.4.1	Bio-Robotics I	Oral	1 Sep FRI	09:00-10:30	Music Box-Majestic
FrB16	8.4.2	Bio-Robotics II	Oral	1 Sep FRI	10:45-12:15	Music Box-Majestic
FrC16	8.4.3	Bio-Robotics III	Oral	1 Sep FRI	14:00-15:30	Music Box-Majestic

Theme 9: Cardiovascular and Respiratory Systems

ThA07	9.1.1	Cellular and Tissue Cardiac Electrophysiology	Oral	31 Aug THU	09:00-10:30	Cantor-Jolson
ThC09	9.1.2	Tissue and Organ Level Cardiac Electrophysiology	Oral	31 Aug THU	14:00-15:30	Gramercy-Olmstead
FrA07	9.1.3	Cardiac Arrhythmias	Oral	1 Sep FRI	09:00-10:30	Cantor-Jolson
FrB07	9.1.4	Forward and Inverse Problems in Cardiac Electrophysiology	Oral	1 Sep FRI	10:45-12:15	Cantor-Jolson
SaA07	9.1.5	Pacing, Defibrillation and Catheter Ablation	Oral	2 Sep SAT	09:00-10:30	Cantor-Jolson
SuA07	9.1.6	Pacing, Defibrillation and Catheter Ablation II	Oral	3 Sep SUN	09:00-10:30	Cantor-Jolson
FrD07	9.1.7	Cardiorespiratory Variability I	Oral	1 Sep FRI	15:45-17:15	Cantor-Jolson
SuB07	9.1.8	Cardiorespiratory Variability II	Oral	3 Sep SUN	10:45-12:15	Cantor-Jolson
ThEP5	9.1.9	Cardiorespiratory Variability III	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
FrEP8	9.1.10	Electrocardiology and Arrhythmias	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
FrEP5	9.1.10	Sleep Disorders	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
FrEP6	9.1.11	Cardiac Electrophysiological Modeling and Instrumentation	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
ThA09	9.2.1	Cardiac Mechanics	Oral	31 Aug THU	09:00-10:30	Gramercy-Olmstead
ThB09	9.2.2	Coronary Blood Flow	Oral	31 Aug THU	10:45-12:15	Gramercy-Olmstead
FrC07	9.2.3	Fluid Dynamics and Vascular Mechanics	Oral	1 Sep FRI	14:00-15:30	Cantor-Jolson
WeD07	9.2.4	Cardiopulmonary Models I: Critical Care	Oral	30 Aug WED	14:45-16:15	Cantor-Jolson
WeC15	9.2.5	Cardiopulmonary Models II: Critical Care	Oral	30 Aug WED	13:00-14:30	O'Neill
SaC06	9.2.6	Ventricular Assist Devices	Oral	2 Sep SAT	14:00-15:30	Empire-Hudson
SaD06	9.2.7	Pulmonary Mechanics and Dynamics IA	Oral	2 Sep SAT	15:45-17:15	Empire-Hudson
SaB07	9.2.8	Respiratory System Modeling and Signal Processing	Oral	2 Sep SAT	10:45-12:15	Cantor-Jolson
ThEP6	9.2.9	Cardiopulmonary Modeling	Poster	31 Aug THU	16:30-18:30	Westside Ballroom S.
FrBP9	9.2.10	Cardiac Function and Vascular Systems	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
FrBP8	9.2.11	Pulmonary Mechanics and Dynamics II	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.

Theme 10: Neural and Rehabilitation Engineering and Neuromuscular Systems

ThA08	10.1.1	Computational Neurophysiology	Oral	31 Aug THU	09:00-10:30	Juilliard
SaBP5	10.1.2	Computational Neurophysiology	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
WeC05	10.1.3	Applied Neural Computing I	Special	30 Aug WED	13:00-14:30	Duffy-Columbia
WeD05	10.1.4	Applied Neural Computing II	Special	30 Aug WED	14:45-16:15	Duffy-Columbia
ThA12	10.2.1	Neural Microsystems and instrumentation	Oral	31 Aug THU	09:00-10:30	Palace-Winter Garden
FrBP12	10.2.2	Neural Microsystems and instrumentation 2	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
ThB12	10.3.1	Characterization of Electrode-Electrode Interfaces for Neural Stimulation I	Oral	31 Aug THU	10:45-12:15	Palace-Winter Garden
FrC14	10.3.2	Characterization of Electrode-Electrode Interfaces for Neural Stimulation II	Oral	1 Sep FRI	14:00-15:30	Chelsea-Gotham
ThC16	10.3.3	Neural Stimulation and Prostheses I	Oral	31 Aug THU	14:00-15:30	Music Box-Majestic
FrD08	10.3.4	Neural stimulation and prostheses 2	Oral	1 Sep FRI	15:45-17:15	Juilliard
SaA08	10.3.5	Neural stimulation and prostheses 3	Oral	2 Sep SAT	09:00-10:30	Juilliard
SaB08	10.3.6	Neural stimulation and prostheses 5	Oral	2 Sep SAT	10:45-12:15	Juilliard
SaC08	10.3.7	Neural stimulation and prostheses 6	Oral	2 Sep SAT	14:00-15:30	Juilliard
FrBP10	10.3.8	Neural stimulation and prostheses 4	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
SaD08	10.3.9	Neural stimulation and prostheses VII	Oral	2 Sep SAT	15:45-17:15	Juilliard
FrA02	10.3.10	Nerve Stimulation as a Clinical Rehabilitation Technique	Oral	1 Sep FRI	09:00-10:30	Marquis C
FrBP11	10.4.1	Neural interfacing and neurorobotics 2	Poster	1 Sep FRI	10:45-12:15	Westside Ballroom S.
SaC15	10.4.2	Neural interfacing and neurorobotics	Oral	2 Sep SAT	14:00-15:30	O'Neill
ThB08	10.5.1	Special Session: Neural Imaging and Sensing I	Oral	31 Aug THU	10:45-12:15	Juilliard
ThBP12	10.5.2	Neural Engineering	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
ThC12	10.6.1	Neural informatics and signal processing I	Oral	31 Aug THU	14:00-15:30	Palace-Winter Garden
FrA08	10.6.2	Neural informatics and signal processing II	Oral	1 Sep FRI	09:00-10:30	Juilliard
ThBP10	10.6.3	Applied Neurocomputing, 1	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
FrB08	10.6.4	Neural informatics and signal processing 4	Oral	1 Sep FRI	10:45-12:15	Juilliard
ThBP11	10.6.5	EMG Analysis	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
ThBP7	10.6.6	Neural informatics and signal processing 3	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
FrD14	10.7.1	Neuromuscular Control: Central Mechanisms	Oral	1 Sep FRI	15:45-17:15	Chelsea-Gotham
WeD03	10.7.2	Neuromuscular Control: Peripheral Mechanisms	Oral	30 Aug WED	14:45-16:15	SoHo-Herald
ThBP8	10.7.3	Sensorimotor and neuromuscular systems 2	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
SaA15	10.7.4	Sensorimotor and neuromuscular systems	Oral	2 Sep SAT	09:00-10:30	O'Neill
ThBP9	10.7.5	Sensory-Motor Assessment: Gait	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
FrEP9	10.7.6	Postural Control	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
FrEP7	10.7.7	Sensory-Motor Assessment	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
FrB14	10.8.1	New Techniques in Motor Rehabilitation	Oral	1 Sep FRI	10:45-12:15	Chelsea-Gotham

FrC08	10.8.2	New Techniques in Rehabilitation II	Oral	1 Sep FRI	14:00-15:30	Juilliard
SaD15	10.8.3	New Techniques in Sensory Rehabilitation	Oral	2 Sep SAT	15:45-17:15	O'Neill
SaBP4	10.8.4	New Techniques in Rehabilitation III	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
FrA14	10.9.1	Neural Injury	Oral	1 Sep FRI	09:00-10:30	Chelsea-Gotham

Theme 11: Clinical Engineering and Healthcare Information Systems

SaA14	11.1.1	Intelligent Monitoring and Analysis Systems I	Oral	2 Sep SAT	09:00-10:30	Chelsea-Gotham
SaB09	11.1.2	Intelligent Monitoring and Analysis Systems II	Oral	2 Sep SAT	10:45-12:15	Gramercy-Olmstead
SaEP11	11.1.3	Intelligent Monitoring and Analysis Systems	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
FrA09	11.2.1	Healthcare Decision Support Systems I	Oral	1 Sep FRI	09:00-10:30	Gramercy-Olmstead
SaC09	11.2.2	Healthcare Decision Support Systems II	Oral	2 Sep SAT	14:00-15:30	Gramercy-Olmstead
SaEP12	11.2.3	Healthcare Decision Support Systems	Poster	2 Sep SAT	16:30-18:30	Westside Ballroom S.
SaA09	11.3.1	Automation and Computer-Aided Surgery I	Oral	2 Sep SAT	09:00-10:30	Gramercy-Olmstead
ThBP1	11.3.2	Automation and Computer-Aided Surgery	Poster	31 Aug THU	10:45-12:15	Westside Ballroom S.
SaB14	11.4.1	Clinical Engineering and Healthcare Information Systems Best Practices I	Oral	2 Sep SAT	10:45-12:15	Chelsea-Gotham
SaD14	11.4.2	Clinical Engineering and Healthcare Information Systems Best Practices II	Oral	2 Sep SAT	15:45-17:15	Chelsea-Gotham
FrEP10	11.4.3	Clinical Engineering and Healthcare Information Systems Best Practices	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
SaC14	11.5.1	Law, Ethics, Policy, Risk and Safety Issues I	Oral	2 Sep SAT	14:00-15:30	Chelsea-Gotham
FrEP11	11.5.2	Law, Ethics, Policy, Risk and Safety Issues	Poster	1 Sep FRI	16:30-18:30	Westside Ballroom S.
FrB09	11.6.1	Healthcare Information Management I	Oral	1 Sep FRI	10:45-12:15	Gramercy-Olmstead
SuA04	11.6.2	Healthcare Information Management II	Oral	3 Sep SUN	09:00-10:30	Ziegfeld
SaBP10	11.6.3	Healthcare Information Management	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
SaBP11	11.6.4	Models in Healthcare Informatics	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
FrC09	11.7.1	Telemedicine, E-Medicine, and Home-Based Healthcare II	Oral	1 Sep FRI	14:00-15:30	Gramercy-Olmstead
FrC11	11.7.2	Elder Care Technologies I	Oral	1 Sep FRI	14:00-15:30	Belasco
SuB04	11.7.3	Elder Care Technologies II	Oral	3 Sep SUN	10:45-12:15	Ziegfeld
SuB09	11.7.4	m-Health: Personalized Health Information Systems	Oral	3 Sep SUN	10:45-12:15	Gramercy-Olmstead
SaBP13	11.7.5	Telemedicine, E-Medicine, and Home-Based Healthcare	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.
SuA09	11.7.7	Telemedicine, E-Medicine, and Home-Based Healthcare I	Oral	3 Sep SUN	09:00-10:30	Gramercy-Olmstead
FrD09	11.8.1	Emerging Technologies for Healthcare Delivery I	Oral	1 Sep FRI	15:45-17:15	Gramercy-Olmstead
SaBP12	11.8.2	Emerging Technologies for Healthcare Delivery	Poster	2 Sep SAT	10:45-12:15	Westside Ballroom S.