



# ISABS Conference on Forensic and Anthropologic Genetics and Mayo Clinic Lectures in Individualized Medicine

[www.isabs.net](http://www.isabs.net) Le Méridien Lav Hotel / Split, June 17-22, 2019

With the participation of Nobel Laureates



# Program



## Registration Desk Hours

Le Méridien Lav Hotel

<b>Sunday, June 16</b>	3:00 p.m. – 8:00 p.m.
<b>Monday, June 17</b>	8:00 a.m. – 5:00 p.m.
<b>Tuesday, June 18</b>	7:30 a.m. – 5:00 p.m.
<b>Wednesday, June 19</b>	7:30 a.m. – 6:00 p.m.
<b>Thursday, June 20</b>	7:30 a.m. – 5:00 p.m.
<b>Friday, June 21</b>	7:30 a.m. – 5:00 p.m.

## Exhibit Hall Hours

Le Méridien Lav Hotel

<b>Monday, June 17</b>	8:30 a.m. – 5:00 p.m.
<b>Tuesday, June 18</b>	8:30 a.m. – 5:00 p.m.
<b>Wednesday, June 19</b>	8:30 a.m. – 5:00 p.m.
<b>Thursday, June 20</b>	8:30 a.m. – 5:00 p.m.
<b>Friday, June 21</b>	8:30 a.m. – 5:00 p.m.

English is the official language of the ISABS and its meetings; neither oral nor written translations will be provided. Although precautions are taken to prevent schedule changes, speakers and program schedules may change due to unforeseen circumstances.

*As a courtesy to others, meeting attendees are asked to silence their cell phones when attending the sessions.*

## Sunday, June 16

**9:00 a.m.-12:00 p.m. AAFS and ISABS Introduction to Forensic Sciences (For Students)**

**9:00 a.m.-4:00 p.m. Mayo Clinic Short Course on Epigenomics**

**4:00 p.m.-7:30 p.m. 7<sup>th</sup> Croatian Congress of Human Genetics**

9:00 a.m.-12:00 p.m.	Session 1 Fundamentals	<b>Moderator:</b> <b>Keith D. Robertson</b>	Mayo Clinic, Rochester, MN, USA	
9:00 a.m.-9:30 a.m.		<b>Keith D. Robertson</b>	Mayo Clinic, Rochester, MN, USA	<b>Fundamental mechanisms underlying the regulation of gene transcription</b>
9:30 a.m.-10:00 a.m.		<b>Julie M. Cunningham</b>	Mayo Clinic, Rochester, MN, USA	<b>Molecular basis of epigenetic control: epigenetic regulation by post-synthetic DNA and RNA modifications</b>
10:00 a.m.-10:30 a.m.		<b>Raul A. Urrutia</b>	Medical College of Wisconsin, Milwaukee, WI, USA	<b>Molecular basis of epigenetic control: epigenetic regulation through chromatin modifying complexes</b>
10:30 a.m.-11:00 a.m.		<b>Haojie Huang</b>	Mayo Clinic, Rochester, MN, USA	<b>Molecular basis of epigenetic control: epigenetic regulation by the RNA world</b>
11:00 a.m.-11:30 a.m.		<b>Alexandre Gaspar-Maia</b>	Mayo Clinic, Rochester, MN, USA	<b>Molecular basis of epigenetic control: chromatin architecture and nuclear organization</b>
11:30 a.m.-12:00 p.m.		<b>Tamas Ordog</b>	Mayo Clinic, Rochester, MN, USA	<b>Epigenetic states and inheritance: epigenetic inheritance and environmental epigenetics</b>
<b>12:00 p.m.-1:00 p.m.</b>	<b>Poster Session</b>			
1:00 p.m.-4:00 p.m.	Session 2 Applications	<b>Moderator:</b> <b>Keith D. Robertson</b>	Mayo Clinic, Rochester, MN, USA	
1:00 p.m.-1:30 p.m.		<b>Alexandre Gaspar-Maia</b>	Mayo Clinic, Rochester, MN, USA	<b>Epigenetic states and inheritance: cellular reprogramming</b>
1:30 p.m.-2:00 p.m.		<b>Jeong-Heon Lee</b>	Mayo Clinic, Rochester, MN, USA	<b>Epigenetics in the lab: epigenomic methodologies</b>
2:00 p.m.-2:30 p.m.		<b>Hu Li</b>	Mayo Clinic, Rochester, MN, USA	<b>Epigenetics in the lab: bioinformatic analysis of epigenomic data</b>
2:30 p.m.-3:00 p.m.		<b>Gwen A. Lomberk</b>	Medical College of Wisconsin, Milwaukee, WI, USA	<b>Epigenomics in medicine: epigenetic basis of human disease—Cancer</b>
3:00 p.m.-3:30 p.m.		<b>Tamas Ordog</b>	Mayo Clinic, Rochester, MN, USA	<b>Epigenomics in medicine: epigenetic basis of human disease—Non-cancer</b>
3:30 p.m.-4:00 p.m.		<b>Grzegorz S. Nowakowski</b>	Mayo Clinic, Rochester, MN, USA	<b>Epigenomics in medicine: epigenetic pharmacology</b>

## Monday, June 17

### 9:00 a.m.-10:30 a.m. Opening Ceremony

10:30 a.m.-12:45 p.m.	Opening Session Opening Plenaries	<b>Moderator:</b> <b>Dragan Primorac</b>	ISABS & *	
10:30 a.m.-11:15 a.m.		<b>A. Keith Stewart</b>	Mayo Clinic, Scottsdale, AZ, USA	<b>Genome-informed medicine 2019</b>
11:15 a.m.-12:00 p.m.		<b>Joshua Akey</b>	Princeton University, Princeton, NJ, USA	<b>Archaic human DNA in the genome of modern humans</b>
12:00 p.m.-12:45 p.m.		<b>James Landers</b>	University of Virginia School of Medicine, Charlottesville, VA, USA	<b>Microfluidics: Science, technology, and applications in forensics and medicine</b>

### 12:45 p.m.-2:00 p.m. Break for Lunch + Networking

2:00 p.m.-4:45 p.m.	Oral Session 1: Individualized and Regenerative Medicine	<b>Moderator:</b> <b>Tamas Ordog</b>	Mayo Clinic, Rochester, MN, USA	
2:00 p.m.-2:25 p.m.		<b>Manolis Kellis</b>	Massachusetts Institute of Technology, The Broad Institute, Cambridge, MA, USA	<b>From genomics to therapeutics: uncovering and manipulating the genomic circuitry of human disease</b>
2:25 p.m.-2:50 p.m.		<b>Nilufer Ertekin-Taner</b>	Mayo Clinic, Jacksonville, FL, USA	<b>Comparative – omics in neurodegenerative diseases: pathways of convergence and divergence</b>
2:50 p.m.-3:15 p.m.		<b>John B. Kisiel</b>	Mayo Clinic, Rochester, MN, USA	<b>Liquid biopsy for early detection of cancer: recent advances and key challenges</b>

### 3:15 p.m.-3:30 p.m. Break

3:30 p.m.-3:55 p.m.		<b>Arnold I. Caplan</b>	Case Western Reserve University, Cleveland, OH, USA	<b>Mesenchymal stem cells: time to change the name</b>
3:55 p.m.-4:20 p.m.		<b>Andre van Wijnen</b>	Mayo Clinic, Rochester, MN, USA	<b>Epigenetics of skeletal development and mesenchymal stem cell differentiation</b>
4:20 p.m.-4:45 p.m.		<b>Dragan Primorac</b>	ISABS & *	<b>Articular cartilage regeneration: current and future technologies</b>

### 5:05 p.m.-10:00 p.m. Conference Social Program

### 5:05 p.m.-10:00 p.m. Welcome Mixer and Social Program for Invited Speakers and Guests (By Invitation)

### 5:05 p.m.-7:30 p.m. Welcome Mixer for Registered Attendees and Guests (By Registration)

\* St. Catherine Specialty Hospital, Zabok, Croatia; Universities of Split, Osijek and Rijeka, Croatia; Children's Hospital Srebrnjak, Zagreb, Croatia; Eberly College of Science The Pennsylvania State University, University Park, State College, PA, USA; The Henry C. Lee College of Criminal Justice and Forensic Sciences, University of New Haven, West Haven, CT, USA; Regiomed Kliniken, Coburg, Germany

## Tuesday, June 18

8:30 a.m.-11:35 a.m.	Oral Session 2: Forensic Genetics	<b>Moderator:</b> <b>James Landers</b>	University of Virginia School of Medicine, Charlottesville, VA, USA	
8:30 a.m.-8:55 a.m.		<b>Jodi Irwin</b>	Federal Bureau of Investigation, Quantico, VA, USA	<b>MPS implementation in forensic casework</b>
8:55 a.m.-9:20 a.m.		<b>Daniele Podini</b>	George Washington University, Washington, D.C., USA	<b>Microhaplotypes: a comprehensive forensic DNA marker</b>
9:20 a.m.-9:45 a.m.		<b>Mitchell M. Holland</b>	The Pennsylvania State University, University Park, State College, PA, USA	<b>DCMPS of mtDNA heteroplasmy: an established tool for forensic investigations</b>
9:45 a.m.-9:55 a.m.		<b>Short talk selected from submitted abstracts</b>		
<b>9:55 a.m.-10:10 a.m.</b>	<b>Break</b>			
10:10 a.m.-10:35 a.m.		<b>Antti Sajantila</b>	University of Helsinki, Helsinki, Finland	<b>Use of human and virus DNA for assessing ancestry in forensic and archaeological context</b>
10:35 a.m.-11:00 a.m.		<b>Walther Parson</b>	Medical University Innsbruck, Innsbruck, Austria	<b>Development and validation of prototype MPS tools to infer appearance, ancestry and age from forensic DNA samples</b>
11:00 a.m.-11:25 a.m.		<b>Manfred Kayser</b>	Erasmus University Medical Center Rotterdam, Rotterdam, The Netherlands	<b>Improving forensic Y-STR and Y-SNP analysis</b>
11:25 a.m.-11:35 a.m.		<b>Short talk selected from submitted abstracts</b>		
11:35 a.m.-1:30 p.m.	Poster Session 1	<b>Moderator:</b> <b>Gwen A. Lomberk</b>	Medical College of Wisconsin, Milwaukee, WI, USA	
<b>12:00 p.m.-1:30 p.m.</b>	<b>Joint Session: ISABS, Regiomed Kliniken, Germany, University of Split, Croatia (By Invitation)</b>			
1:30 p.m.-5:00 p.m.	Oral Session 3: Genomics and Epigenomics in Medicine	<b>Moderator:</b> <b>Keith D. Robertson</b>		
1:30 p.m.-1:55 p.m.		<b>Eric W. Klee</b>	Mayo Clinic, Rochester, MN, USA	<b>The use of multi-omics to resolve undiagnosed rare disease patients</b>
1:55 p.m.-2:20 p.m.		<b>Mark A. Frye</b>	Mayo Clinic, Rochester, MN, USA	<b>Genetics of bipolar disease</b>
2:20 p.m.-2:45 p.m.		<b>Tamas Ordog</b>	Mayo Clinic, Rochester, MN, USA	<b>Interrogating and manipulating lineage-critical enhancers for therapeutic benefit</b>
2:45 p.m.-2:55 p.m.		<b>Short talk selected from submitted abstracts</b>		
<b>2:55 p.m.-3:10 p.m.</b>	<b>Break</b>			

## Tuesday, June 18

3:10 p.m.-3:35 p.m.		<b>Rugang Zhang</b>	The Wistar Institute, Philadelphia, PA, USA	<b>Approaches to SWI/SNF alterations in cancer</b>
3:35 p.m.-4:00 p.m.		<b>Raul A. Urrutia</b>	Medical College of Wisconsin, Milwaukee, WI, USA	<b>Epigenomics of pancreatic cancer</b>
4:00 p.m.-4:25 p.m.		<b>Magnus Essand</b>	Uppsala University, Uppsala, Sweden	<b>Cancer immunotherapy using genetically engineered viruses and immune cells</b>
4:25 p.m.-4:50 p.m.		<b>Grzegorz S. Nowakowski</b>	Mayo Clinic, Rochester, MN, USA	<b>Therapy of aggressive B-cell lymphoma – aligning alterations into pathways and pathways into therapeutic targets</b>
4:50 p.m.-5:00 p.m.		<b>Short talk selected from submitted abstracts</b>		
<b>5:00 p.m.-8:00 p.m.</b>	<b>Free</b>			
8:00 p.m.-9:00 p.m.	Evening Lecture 1 Special Plenary Lecture	<b>Moderator: Tamas Ordog</b>	Mayo Clinic, Rochester, MN, USA	
8:00 p.m.-9:00 p.m.		<b>Richard Weinshilboum</b>	Mayo Clinic, Rochester, MN, USA	<b>Genes and drug response: an Odyssey</b>

## Wednesday, June 19

8:30 a.m.-11:35 a.m.	Oral Session 4: Innovative Approaches in Forensics, Anthropology and Medicine	<b>Moderator:</b> <b>Mitchell M. Holland</b>	The Pennsylvania State University, University Park, State College, PA, USA	
8:30 a.m.-8:55 a.m.		<b>Ryan C. Bailey</b>	University of Michigan, Ann Arbor, MI, USA	<b>Microfluidic tools for automating epigenetics</b>
8:55 a.m.-9:20 a.m.		<b>Gordan Lauc</b>	University of Zagreb, Genos Ltd., Zagreb, Croatia	<b>The Human Glycome Project - exploring the new frontier in personalised medicine</b>
9:20 a.m.-9:45 a.m.		<b>Matthias Meyer</b>	Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany	<b>Improving techniques for the retrieval and analysis of ancient human DNA</b>
9:45 a.m.-9:55 a.m.		<b>Short talk selected from submitted abstracts</b>		
<b>9:55 a.m.-10:10 a.m.</b>	<b>Break</b>			
10:10 a.m.-10:35 a.m.		<b>Noah Rosenberg</b>	Stanford University, Stanford, CA, USA	<b>Matching DNA records with disjoint sets of genetic markers</b>
10:35 a.m.-11:00 a.m.		<b>Yaniv Erlich</b>	Columbia University, New York, NY, USA	<b>The hitchhiker's guide to breach genetic privacy</b>
11:00 a.m.-11:25 a.m.		<b>Fredrick Bieber</b>	Harvard University, Cambridge, MA, USA	<b>Genealogics: public DNA databases in forensic investigation</b>
11:25 a.m.-11:35 a.m.		<b>Short talk selected from submitted abstracts</b>		
<b>11:35 a.m.-12:30 p.m.</b>	<b>Break for Lunch + Networking</b>			
12:30 p.m.-3:30 p.m.	Nobel Laureate Session	<b>Moderator:</b> <b>Dragan Primorac</b>	ISABS & *	
12:30 p.m.-1:15 p.m.		<b>Avram Hershko</b>		
1:15 p.m.-2:00 p.m.		<b>Robert Huber</b>		
2:00 p.m.-2:45 p.m.		<b>Paul Modrich</b>		
2:45 p.m.-3:30 p.m.	Questions and Discussion			
<b>3:30 p.m.-7:30 p.m.</b>	<b>Free</b>			
<b>5:15 p.m.-6:05 p.m.</b>	<b>Nobel Spirit - Croatian Radiotelevision (By Invitation)</b>			
<b>7:30 p.m.-11:25 p.m.</b>	<b>Conference Banquet and Award Ceremony</b>			

\* St. Catherine Specialty Hospital, Zabok, Croatia; Universities of Split, Osijek and Rijeka, Croatia; Children's Hospital Srebrnjak, Zagreb, Croatia; Eberly College of Science The Pennsylvania State University, University Park, State College, PA, USA; The Henry C. Lee College of Criminal Justice and Forensic Sciences, University of New Haven, West Haven, CT, USA; Regiomed Kliniken, Coburg, Germany

## Thursday, June 20

### 8:30 a.m.-7:00 p.m. Human Glycome Project

8:30 a.m.-11:35 a.m.	Oral Session 5: Anthropological Genetics	<b>Moderator:</b> <b>Manfred Kayser</b>	Erasmus University Medical Center Rotterdam, Rotterdam, The Netherlands	
8:30 a.m.-8:55 a.m.		<b>Tom Gilbert</b>	University of Copenhagen, Copenhagen, Denmark	<b>Human genetic consequences of the second plague pandemic</b>
8:55 a.m.-9:20 a.m.		<b>Mattias Jakobsson</b>	Uppsala University, Uppsala, Sweden	<b>Interrogating early human history using ancient DNA from Africa</b>
9:20 a.m.-9:45 a.m.		<b>Wolfgang Haak</b>	Max Planck Institute for the Science of Human History, Jena, Germany	<b>Into the great wide open: 3000 years of human population history in the Caucasus region</b>
9:45 a.m.-9:55 a.m.		<b>Short talk selected from submitted abstracts</b>		
<b>9:55 a.m.-10:10 a.m.</b>	<b>Break</b>			
10:10 a.m.-10:35 a.m.		<b>Joachim Burger</b>	University of Mainz, Mainz, Germany	<b>Demographic and evolutionary inference from palaeogenomes</b>
10:35 a.m.-11:00 a.m.		<b>Melissa Ilardo</b>	University of Utah, Salt Lake City, UT, USA	<b>Genetic and physiological adaptations to diving in modern humans</b>
11:00 a.m.-11:25 a.m.		<b>Simon Mead</b>	University College London Hospitals, London, United Kingdom	<b>Genetic adaptation to prion diseases with a particular reference to Kuru in Papua New Guinea and CJD in Europe</b>
11:25 a.m.-11:35 a.m.		<b>Short talk selected from submitted abstracts</b>		
11:35 a.m.-1:30 p.m.	Break for Lunch + Networking + Poster Session 2	<b>Moderator:</b> <b>TBD</b>		
1:30 p.m.-4:20 p.m.	Oral Session 6: Circulating Biomarkers in Medicine	<b>Moderator:</b> <b>Minetta C. Liu</b>	Mayo Clinic, Rochester, MN, USA	
1:30 p.m.-1:55 p.m.		<b>Henry A. Erlich</b>	Children's Hospital Oakland Research Institute, Oakland, CA, USA	<b>Next-generation sequencing for non-invasive prenatal diagnosis of the hemoglobinopathies: a model for autosomal recessive diseases</b>
1:55 p.m.-2:20 p.m.		<b>George Vasmatazis</b>	Mayo Clinic, Rochester, MN, USA	<b>Personalized therapy monitoring and relapse detection strategies using abnormal tumor related DNA junctions</b>
2:20 p.m.-2:45 p.m.		<b>Wolfgang Janni</b>	University of Ulm, Ulm, Germany	<b>Clinical utility of circulating tumor cells in early and advanced breast cancer</b>
2:45 p.m. - 2:55 p.m.		<b>Short talk selected from submitted abstracts</b>		



## Thursday, June 20

<b>2:55 p.m.-3:10 p.m. Break</b>				
3:10 p.m.-3:35 p.m.		<b>Minetta C. Liu</b>	Mayo Clinic, Rochester, MN, USA	<b>Development of circulating tumor cell- and cell-free-DNA-based assays for the management of solid tumors</b>
3:35 p.m.-4:00 p.m.		<b>Luis A. Diaz, Jr.</b>	Memorial Sloan Kettering Cancer Center, New York, NY, USA	<b>Clinical applications of circulating tumor DNA</b>
4:00 p.m.-4:10 p.m.		<b>Short talk selected from submitted abstracts</b>		
4:10 p.m.-4:20 p.m.		<b>Short talk selected from submitted abstracts</b>		
1:30 p.m.-4:35 p.m.	Oral Session 7: American Academy of Forensic Sciences at ISABS 2019	<b>Moderator: TBD</b>		
1:30 p.m.-1:55 p.m.				
1:55 p.m.-2:20 p.m.				
2:20 p.m.-2:45 p.m.				
2:45 p.m.-2:55 p.m.				
<b>2:55 p.m.-3:10 p.m. Break</b>				
3:10 p.m.-3:35 p.m.				
3:35 p.m.-4:00 p.m.				
4:00 p.m.-4:25 p.m.				
4:25 p.m.-4:35 p.m.				
<b>4:35 p.m.-8:00 p.m. Free</b>				
8:00 p.m.-9:00 p.m.	Evening Lecture 2 Special Plenary Lecture	<b>Moderator: Manfred Kayser</b>	Erasmus University Medical Center Rotterdam, Rotterdam, The Netherlands	
8:00 p.m.-9:00 p.m.		<b>Mark Thomas</b>	University College London, London, United Kingdom	<b>Genetic astrology</b>

## Friday, June 21

### 8:30 a.m.-11:35 a.m. Human Glycome Project

8:30 a.m.-11:35 a.m.	Oral Session 8: Epigenetics in Forensics, Anthropology, and Medicine	<b>Chair: Raul Urrutia</b>	Medical College of Wisconsin, Milwaukee, WI, USA	
8:30 a.m.-8:55 a.m.		<b>Michael S. Kobor</b>	University of British Columbia, Vancouver, BC, Canada	<b>Environmental factors shaping the human epigenome</b>
8:55 a.m.-9:20 a.m.		<b>Keith D. Robertson</b>	Mayo Clinic, Rochester, MN, USA	<b>Identifying and targeting epigenetic defects in liver disease</b>
9:20 a.m.-9:45 a.m.		<b>Raul Mostoslavsky</b>	Massachusetts General Hospital, Harvard Medical School, The Broad Institute, Boston, MA, USA	<b>Linking cancer, epigenetics and metabolism: lessons from SIRT6</b>
9:45 a.m.-9:55 a.m.		<b>Short talk selected from submitted abstracts</b>		

### 9:55 a.m.-10:10 a.m. Break

10:10 a.m.-10:35 a.m.		<b>Ludovic Orlando</b>	University of Toulouse, Toulouse, France	<b>From short, degraded, ancient DNA molecules to genome-wide epigenetic signatures: exploring our epigenetic past</b>
10:35 a.m.-11:00 a.m.		<b>Bastiaan Heijmans</b>	Leiden University Medical Center, Leiden, The Netherlands	<b>Cross-omics analysis in populations to understand the role of epigenomic change in human ageing</b>
11:00 a.m.-11:25 a.m.		<b>Haojie Huang</b>	Mayo Clinic, Rochester, MN, USA	<b>Gene mutation, epigenetic remodeling and therapy resistance in cancer</b>
11:25 a.m.-11:35 a.m.		<b>Short talk selected from submitted abstracts</b>		
11:35 a.m.-1:30 p.m.	Break for Lunch + Networking + Poster Session 3	<b>Moderator: Daniele Podini</b>	George Washington University, Washington, D.C., USA	
1:30 p.m.-2:20 p.m.	Oral session 8A: Epigenetics in Forensics, Anthropology, and Medicine (Continued)	<b>Moderator: Alexandre Gaspar-Maia</b>	Mayo Clinic, Rochester, MN, USA	
1:30 p.m.-1:55 p.m.		<b>Zhiguo Zhang</b>	Columbia University, New York, NY, USA	<b>Epigenetic alterations in glioma</b>
1:55 p.m.-2:20 p.m.		<b>Hwan Young Lee</b>	Seoul National University College of Medicine, Seoul, South Korea	<b>Epigenetic age signatures in bones</b>

### 2:20 p.m.-2:35 p.m. Break

## Friday, June 21

2:35 p.m.-4:50 p.m.	Oral Session 9: Microbiome Analysis in Forensics, Anthropology, and Medicine	<b>Moderator:</b> <b>Joachim Burger</b>	University of Mainz, Mainz, Germany	
2:35 p.m.-3:00 p.m.		<b>Johannes Krause</b>	Max Planck Institute for the Science of Human History, Jena, Germany	<b>The genetic history of the plague: from the Stone Age to the 18th century</b>
3:00 p.m.-3:25 p.m.		<b>Anne Stone</b>	University of Arizona, Tucson, AZ, USA	<b>Tracking a killer: using ancient DNA to understand the evolutionary history of <i>Mycobacterium tuberculosis</i></b>
3:25 p.m.-3:50 p.m.		<b>Christoph Thaiss</b>	University of Pennsylvania, Philadelphia, PA, USA	<b>Microbiome dynamics in metabolic disease</b>
3:50 p.m.-4:15 p.m.		<b>Jacques Schrenzel</b>	University of Geneva, Geneva, Switzerland	<b>Microbiome analysis in clinical medicine: hope or hype?</b>
4:15 p.m.-4:40 p.m.		<b>Zhenjiang Xu</b>	Nanchang University, Nanchang, China	<b>Accurate estimates of the post-mortem interval using cadaver-associated microbiomes</b>
4:40 p.m.-4:50 p.m.		<b>Short talk selected from submitted abstracts</b>		
4:50 p.m.-5:00 p.m.	Closing Remarks	<b>Dragan Primorac</b>	ISABS & *	

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STRATEGIC PARTNER

**PHILIPS**



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