



International Association of Phonosurgery

# IAP 2022 Kyoto



## The 16<sup>th</sup> meeting of the International Association of Phonosurgery

Oct 13-14,  
2022

### PRESIDENT

**Michael S. Benninger**

Chairman, Head and Neck Institute  
Professor of Surgery, Lerner College of Medicine  
The Cleveland Clinic

### CONGRESS CHAIR

**Shigeru Hirano**

Department of Otolaryngology Head & Neck Surgery,  
Kyoto Prefectural University of Medicine

### VENUE

**The Westin Miyako Kyoto**

1 Awataguchi Kachocho, Higashiyama-ku, Kyoto 605-0052



**PROGRAM BOOK**

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ノーベルファーマ株式会社 カスタマーセンター  
[フリーダイヤル] 0120-003-140  
[受付時間] 平日9:00~18:00(土、日、祝日、年末年始を除く)

製造販売元

ノーベルファーマ株式会社  
東京都中央区新川1-17-24

2019年4月作成

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## Welcome Message



On behalf of the Board of Directors of the International Association of Phonosurgery (IAP) I am pleased to welcome you to our 16th meeting in the historic and beautiful city of Kyoto. We are all excited about what I am sure will be an intellectually stimulating and complete educational experience related to the study of the human voice and surgical management. Under the stewardship and direction of our Congress Chair, Shigeru Hirano, we will bring to you an unprecedented group of international speakers in an effort to present a contemporary and worldwide approach to voice science and care. The meeting is set in the backdrop of the natural beauty and unique cultural environment of Kyoto and we hope that you will enjoy not only the excellent education program but the social events, opportunities to connect with colleagues from many nations and enjoy the wonders of Kyoto and Japan.

The International Association of Phonosurgery was founded in 1990 with its first meeting in Belgrade, Yugoslavia with a Mission which “Gathers voice surgeons and scientists of related disciplines, devoted to promote better voice care around the world by means of organizing and supporting educational and training activities, and also by cooperating with different international entities in order to facilitate the access to state of the art technology and training in areas of the world in need of progress.” The name was changed from the original “Phonosurgeons” to “Phonosurgery” to better represent the multidisciplinary efforts surrounding the surgical management of laryngeal and voice disorders. The IAP formally meets biennially, and although at times we meet in association with another international voice meetings, the meeting in Kyoto will be an independent congress of the IAP. In addition to our formal biennial meetings, the IAP also supports numerous other international programs by providing content and speakers. This Congress in Kyoto will be the 16th meeting of the International Association of Phonosurgery.

I hope that you will join us, enjoy the Congress and take time to explore the wonders of the city of Kyoto and of Japan.

A handwritten signature in cursive script that reads "Michael S. Benninger". The ink is dark and the signature is fluid and legible.

Michael S. Benninger, M.D.  
President, International Association of Phonosurgery



*All stars assemble in Kyoto!*

It is our great pleasure and honor to host the International Association of Phonosurgery (IAP) in Kyoto, 2022. This is the second time the IAP has been held in Japan, following the Congress in 1994 hosted by Professor Isshiki. As the Congress Chair, I have the great pleasure to invite you to participate in this Congress that will take place on October 13–14, 2022, in the city of Kyoto, Japan.

The IAP Congress has long been one of the leading meetings in phonosurgery with participation and contribution from world-known phonosurgeons, speech language pathologists and voice scientists. The Congress will include the critical and innovative topics in phonosurgery, from this multi-disciplinary, All-Star faculty. Our aim is to exchange the most contemporary knowledge and information and strengthen our unity of all participants in the care of the phonosurgical patient.

Kyoto is the old capital of Japan with a long history, culture, and tradition. I am sure that the Congress will inspire our enthusiasm for the Voice here in Kyoto.

A handwritten signature in black ink that reads "Shigeru Hirano". The signature is fluid and cursive, with a long horizontal stroke at the end.

Shigeru Hirano, M.D., Ph.D.

Congress Chair, The 16th meeting of the International Association of Phonosurgery

# General Information

## Congress Title

The 16th meeting of the International Association of Phonosurgery (IAP Kyoto 2022)

## Date

October 13 (Thu.) – 14 (Fri.), 2022

## Venue

The Westin Miyako Kyoto  
(1 Awataguchi Kachocho, Higashiyama-ku, Kyoto 605-0052, JAPAN)

## President

Michael S. Benninger M.D.  
(Chairman, Head and Neck Institute Professor of Surgery, Lerner College of Medicine  
The Cleveland Clinic)

## Congress Chair

Shigeru Hirano M.D., Ph.D.  
(Department of Otolaryngology Head & Neck Surgery, Kyoto Prefectural University of Medicine)

## Secretariat

Convention Linkage, Inc.  
634 Shichikannon-cho, Karasuma-dori Rokkaku-sagaru, Nakagyo-ku, Kyoto 604-8162, Japan  
Tel: +81-75-231-6357 Fax: +81-75-231-6354  
E-mail: iap2021@c-linkage.co.jp

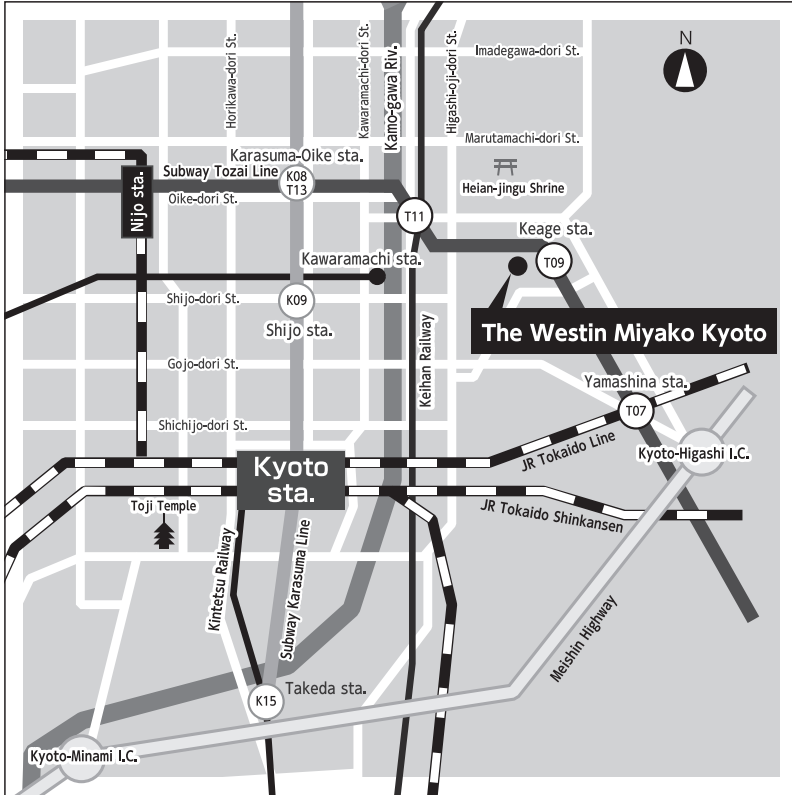
# Access Map

## Access to the Venue

The Westin Miyako Kyoto

(1 Awataguchi Kachocho, Higashiyama-ku, Kyoto 605-0052, Japan)

<https://global.miyakohotels.ne.jp/westinkyoto/access/>

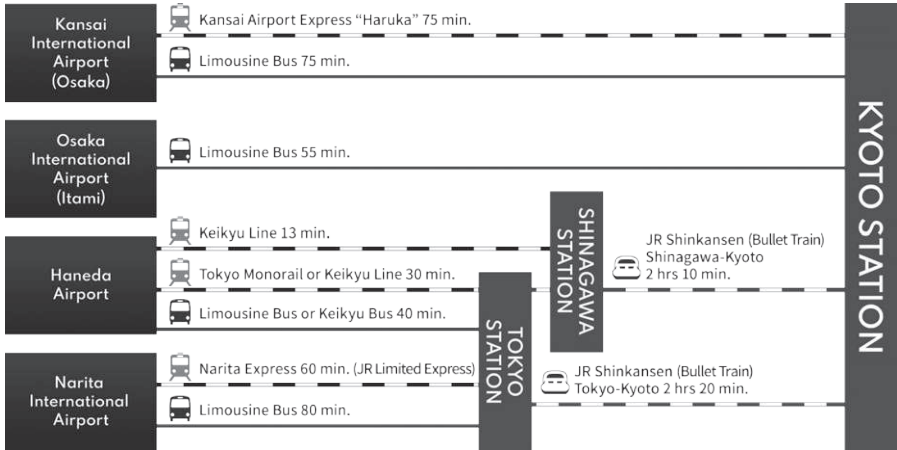
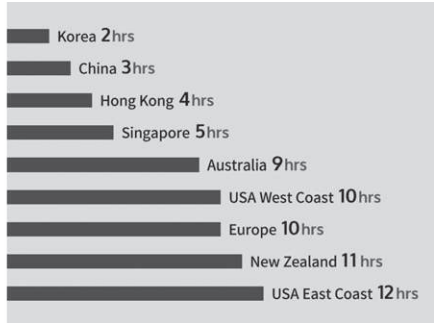


### **By Train (Subway Tozai Line)**

#### **The nearest train Station; Keage Station (Subway Tozai Line)**

From Kyoto Station, take Subway Karasuma Line to Karasuma-Oike Station and transfer to the Subway Tozai Line. The hotel is a 2-minute walk from the Keage station.

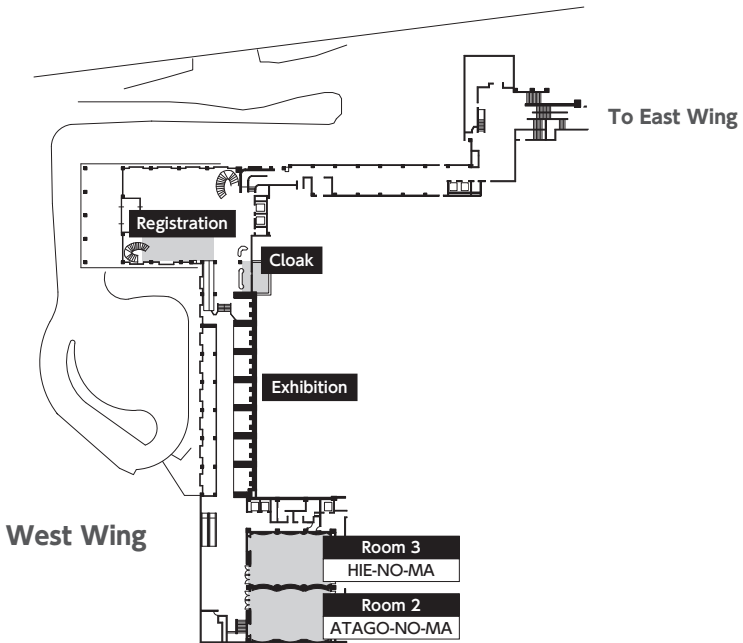
## Access from the Airports



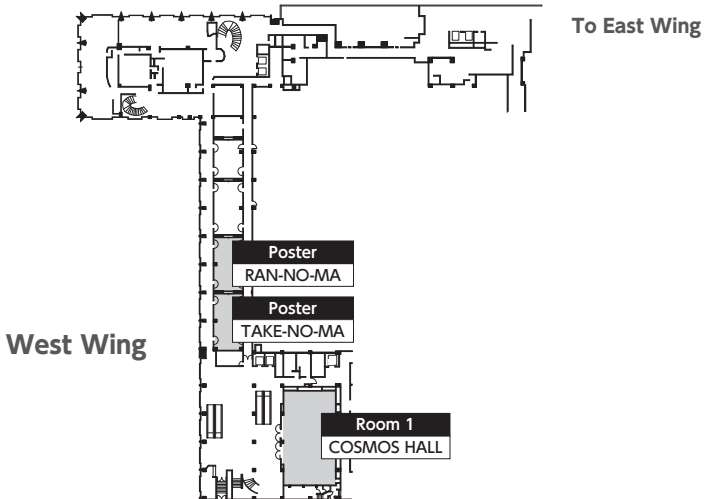


# Floor Guide

2F



3F



# Program at a Glance

## Day 1 October 13 (Thu)

	Room 1	Room 2
	COSMOS HALL, 3F	ATAGO-NO-MA, 2F
8:00	7:50-8:00 <b>Opening Remark</b>	
	8:00-8:50 <b>Symposium 1</b> Phonomicrosurgery	8:00-8:40 <b>Symposium 2</b> Framework
9:00	8:50-9:20 <b>Keynote Lecture 1</b> Unilateral vocal fold paralysis and medialization laryngoplasty	8:40-9:30 <b>Symposium 4</b> Assessment
	9:20-9:50 <b>Keynote Lecture 2</b> Laryngology: the state-of-the-art	9:30-10:30 <b>Symposium 5</b> Professional voice
10:00	9:50-10:20 <b>Keynote Lecture 3</b> Phonosurgery in professional singers, why, when and how	
11:00	10:20-10:50 <b>Keynote Lecture 4</b> Infection with HPV6 and 11, and voice	10:30-11:30 <b>Symposium 6</b> Swallow
	10:50-11:50 <b>Panel Discussion 1</b> Difficult case	
12:00		
13:00	12:05-13:05 <b>Luncheon Seminar 1</b> Sponsored by TIMA Tokyo Inc.	12:05-13:05 <b>Luncheon Seminar 2</b> Sponsored by Meilleur Co., Ltd.
14:00	13:20-13:50 <b>Keynote Lecture 5</b> Regenerative medicine and tissue engineering	13:20-14:20 <b>Symposium 7</b> Transgender
	13:50-14:20 <b>Keynote Lecture 6</b> Phonomicrosurgery and office-based surgery using the laser: thermal vs. photo-thermal effects	14:20-15:10 <b>Symposium 8</b> Assessment
15:00	14:20-15:20 <b>Panel Discussion 2</b> Singer	
16:00	15:30-16:50 <b>Symposium 9</b> Phonosurgery	15:30-16:20 <b>Symposium 10</b> Laser
	17:00	16:50-17:50 <b>Symposium 12</b> Airway/stenosis
18:00		
19:00	18:30-21:00 <b>Gala Dinner</b> (AOI-DEN, East Building, 4F)	

	<b>Room 3</b>	<b>Poster</b>	<b>Exhibition</b>
	HIE-NO-MA, 2F	TAKE-NO-MA/RAN-NO-MA, 3F	Colonnade, 2F
8:00	8:00-9:00 <b>Symposium 3</b> Phonomicrosurgery	8:00-14:00  <b>Poster Mounting</b>	8:00-18:00
9:00	9:00-10:00 <b>Free Paper 1</b>		
10:00	10:00-11:00 <b>Free Paper 2</b>		
11:00	11:00-12:00 <b>Free Paper 3</b>		
12:00	12:05-13:05 <b>Luncheon Seminar 3</b> Sponsored by Nobelpharma Co., Ltd.		
13:00	13:20-14:20 <b>Free Paper 4</b>	8:00-17:30  <b>Poster Viewing</b>	<b>Exhibition</b>
14:00	14:20-15:20 <b>Free Paper 5</b>		
15:00	15:30-16:20 <b>Symposium 11</b> Framework		
16:00	16:20-17:20 <b>Symposium 14</b> Scar		
17:00			
18:00		17:30-18:00 <b>Free Discussion</b>	
		18:00-18:30 <b>Dismantling</b>	
19:00			

# Program at a Glance

## Day 2 October 14 (Fri)

	<b>Room 1</b>	<b>Room 2</b>	<b>Exhibition</b>	
	COSMOS HALL, 3F	ATAGO-NO-MA, 2F	Colonnade, 2F	
8:00	8:00-8:50 <b>Symposium 15</b> Neuroalaryngology	8:00-8:40 <b>Symposium 16</b> Voice therapy	8:00-16:40	
9:00	8:50-9:40 <b>Symposium 17</b> RRP	8:40-9:40 <b>Symposium 18</b> LPR/Cough		
10:00	9:40-10:10 <b>Keynote Lecture 7</b> Challenges in vocal rehabilitation: From changing the vocal parameters to creating a better communication profile	9:40-10:30 <b>Symposium 19</b> Neuroalaryngology		
	10:10-10:40 <b>Keynote Lecture 8</b> Sub-epithelial benign lesions of the vocal fold - in search of an international classification			
11:00	10:40-11:40 <b>Panel Discussion 3</b> Phonosurgery vs Phonotherapy	10:30-11:20 <b>Symposium 20</b> Injection laryngoplasty		
		11:20-11:50 <b>Free Paper 6</b>		
12:00				<b>Exhibition</b>
	12:05-13:05 <b>Luncheon Seminar 4</b> Sponsored by A.R.C. Laser GmbH			
13:00				
	13:20-13:50 <b>Keynote Lecture 9</b> WITHDRAW	13:20-14:10 <b>Symposium 21</b> COVID-19		
14:00	13:50-14:20 <b>Keynote Lecture 10</b> Glottoplasty technique for male-to-female transgender patients			
	14:20-14:50 <b>Keynote Lecture 11</b> Improving diagnosis in voice pathology using a combination of videoendoscopy, high speed video and digital chromoendoscopy (I-SCAN)	14:10-15:10 <b>Symposium 22</b> TERM		
15:00	14:50-15:50 <b>Panel Discussion 4</b> Difficult airways and difficult exposures			
16:00	15:50-16:40 <b>Symposium 24</b> Aging voice	15:10-16:30 <b>Symposium 23</b> Cancer		
	16:40-16:50 <b>Closing Remark</b>			
17:00				
18:00				
19:00				

# General Information for participants

## Registration

Place: West Building 2F Lobby

Opening Hours:

Date	Time
October 13 (Thu)	7:30-17:00
October 14 (Fri)	7:30-15:30

## Registration Fees

Registration Category	Early Registration March 1 – October 12	Onsite Registration October 13 – October 14
Physicians	JPY 40,000	JPY 50,000
SLP · Resident	JPY 15,000	JPY 20,000
Student*	JPY 5,000	

\*A student ID or certified by a Head of Department must be submitted when register online.

Optional Fees

- Accompanying Person JPY 10,000

Only available to partners and/or family members of a paid registrant to attend the meeting. A paid registrant can register up to two accompanying persons. Accompanying person's access is limited to the Exhibition area and Gala Dinner.

- Gala Dinner JPY 5,000

Date/Time: 18:30-21:00, October 13(Thu.)

Location: AOI-DEN (East Building, 4F)

Ticket is sold on a first come - first served basis.

## Name Badges

Access to all scientific events will only be possible with your badge. All participants are requested to wear their name badge throughout the conference. There will be no replacement.

## Cloak

Place: West Building 2F Lobby

Opening Hours:

Date	Time
October 13 (Thu)	7:30-20:00
October 14 (Fri)	7:30-17:00

## Travel Desk

Place: West Building 2F Lobby

Opening Hours:

Date	Time
October 13 (Thu)	7:30-17:00
October 14 (Fri)	7:30-15:30

## Wi-Fi

SSID: Westin

PW: Password will not be required

\*Please note that there are places where the connections are weak.

## Lost and Found

Please visit the Inquiry desk, located on 2F, West Building Lobby.

## Smoking

Smoking in all areas is prohibited. Please refrain from smoking in the venue.

# Presentation Guidelines for Speakers and Moderators/Chairs

## For Oral Moderators/Chairs

Please take the chairperson's standby seat at least 15 minutes prior to your session.

## For Oral Presenters

Presentation Time

Session	Presentation Time
Keynote Lecture	30min
Symposium	12min (8min + Q&A 4min)
Free Paper	10min (7min + Q&A 3min)

\*Please be sure to keep to the allotted presentation time in consideration of next presenter.

\*Please arrive at your session room at least 15 minutes before the session begins.

## Presentation File Format

Please prepare your presentation in 16:9 format (recommended).

It is recommended to use standard (OS default) fonts, such as Century Gothic, Courier, Times New Roman.

For the onsite presentation, MS PowerPoint 2016, 2019 versions are supported.

## Data Preview

Place: West Building 2F, in front of Room 2

Opening Hours:

Date	Time
October 13 (Thu)	7:30-17:00
October 14 (Fri)	7:30-15:30

All oral presenters are requested to check in your data at least 30 minutes before session starts.

1. Please prepare your data in Microsoft PowerPoint (Windows PowerPoint2016-) and make sure to preview your presentation data.
2. Remote presentation system is equipped in the session room. You have a TFT monitor, mouse and USB keyboard on the podium to operate your presentation.
3. PowerPoint Presenter View cannot be used during the presentation. If you need a script for your presentation, please print it out and bring it with you to the venue. No printers are available for note printing in the venue.

If you use the Secretariat's PC

1. Only USB flash memories and CD-R are accepted.  
\*MOs, floppy disks, and CD-RWs cannot be accepted.
  2. Windows is the only operating system available for the presentations.  
\*If you have prepared the presentation data on a Macintosh, you are requested to bring your own computer.
  3. Only Windows Media Player can be used to playback movie files.
  4. Your media should contain only the presentation data for the conference.
  5. Your presentation data file should be named as <Session Number> <Name> .ppt.
  6. If your presentation data is linked to other files (i.e. still or moving images, graphs, etc.), those linked files should also be saved in the same folder, and the links checked beforehand.
- The Secretariat is responsible for destroying all copies of any data after the session.

If you bring your own PC

1. Speakers using their own laptops MUST HAVE an AC adapter.
2. Speakers using their own laptops MUST HAVE a VGA D-sub 15pin female output or HDMI. Some laptops require a particular video output cable to use the D-sub 15pin to connect to external monitors and data projectors. Please note that we are not equipped with that specific cable, and you must bring one in case it is needed.
3. Please turn off the screen-saver and energy saving mode beforehand.
4. You should have your data backed up in case of computer trouble.
5. After checking your computer at the PC Reception Desk, please bring your PC to the operation desk in your session room. Please make sure to receive your laptop back from the operation desk after your presentation.
6. Please make sure to check your laptop with anti-virus software before your submission to the PC Reception Desk.

**For Poster Presenters**

Place: TAKE-NO-MA, RAN-NO-MA, West Building 3F

Date: October 13(Thu)

Poster Mounting: 8:00-14:00

Poster Viewing: 8:00-17:30

Discussion: 17:30-18:00

Dismantling: 18:00-18:30

\*We expect presenters to be in front of their poster at designated time and discuss their poster with participants.

We serve wine for free at the poster venue. Please enjoy!

(From around 17:00. Up to 2 glasses per person.)



Instructions for Poster preparation

- Presentation number (H20cm × W20cm):

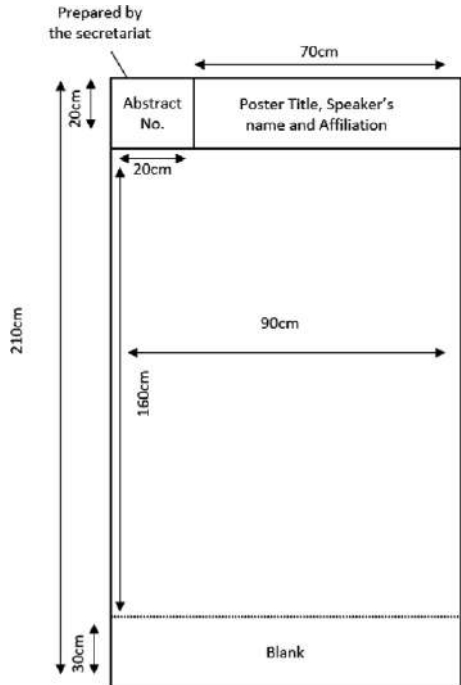
\*Congress Secretariat will prepare and pre-set on each panel.

- A label (H20cm × W70cm):

Please prepare a label showing the title, affiliation, and the speaker's name.

- Recommended Posting Area Abstract body (H160cm × W90cm):

Please summarize your abstract within the size mentioned.





## Keynote Lecture 1

### Unilateral vocal fold paralysis and medialization laryngoplasty

Date: 8:50 - 9:20 (JST), OCTOBER 13 (Thu.), 2022

Room: Room 1 (COSMOS HALL)

Michael S. Benninger

Department of Otolaryngology-Head and Neck Surgery, Cleveland Clinic Lerner College of Medicine Head and Neck Institute, The Cleveland Clinic, USA

Dr. Michael S. Benninger is Professor of Otolaryngology-Head and Neck Surgery in the Cleveland Clinic Lerner College of Medicine and the Immediate Past-Chair of the Head and Neck Institute at Cleveland Clinic

He is the President of the International Association of Phonosurgery, Vice President of the Voice Foundation, Immediate Past-President of the Triological Society and member of the Board of Governors of the American College of Surgeons. He is also a Past-President of the American Laryngological Association, American Rhinologic Society, the Michigan Oto-Laryngological Society and the Northeast Ohio ENT Society, and Past Treasurer of the American Broncho-Esophagological Association. He served on the Board of Directors of the American Academy of Otolaryngology-Head and Neck Surgery for 12 years, having been a both a former Vice-President and Chairman of the Board of Governors of that organization. He is the former Editor-in-Chief of the Journal, *Otolaryngology-Head and Neck Surgery*. He has served on the Residency Review Committee for Otolaryngology and as a member of the Medical Advisory Board for WebMD. He is the Past-Chairman of the Steering Committee for the Sinus and Allergy Health Partnership.

Dr Benninger has authored or edited 11 books and has 1 additional book in press. He has also has written over 130 book chapters and over 220 scientific articles, focusing primarily on voice care and laryngology, nasal and sinus disease and health care management.

A graduate of Harvard University, Dr. Benninger received his medical degree from Case Western Reserve University in Cleveland, Ohio, and completed his residency at the Cleveland Clinic Foundation.

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## Keynote Lecture 2

### Laryngology: the state-of-the-art

Date: 9:20 - 9:50 (JST), OCTOBER 13 (Thu.), 2022

Room: Room 1 (COSMOS HALL)

Robert T. Sataloff

Department of Otolaryngology – Head & Neck Surgery, Drexel University College of Medicine, USA

Robert T. Sataloff, MD, DMA, FACS is Professor and Chairman, Department of Otolaryngology-Head and Neck Surgery and Senior Associate Dean for Clinical Academic Specialties, Drexel University College of Medicine. Dr. Sataloff is Director of Otolaryngology and Communication Sciences Research at the Lankenau Institute for Medical Research, and Director of Otolaryngology Education at Lankenau Medical Center. He also holds Adjunct Professorships in the Departments of Otolaryngology – Head and Neck Surgery at Thomas Jefferson University, Temple University and the Philadelphia College of Osteopathic Medicine; and he is on the faculty of the Academy of Vocal Arts. He serves as Conductor of the Thomas Jefferson University Choir. Dr. Sataloff is also a professional singer and singing teacher. He holds an undergraduate degree from Haverford College in Music Theory and Composition; graduated from Jefferson Medical College, Thomas Jefferson University; received a Doctor of Musical Arts in Voice Performance from Combs College of Music; and he completed Residency in Otolaryngology - Head and Neck Surgery and a Fellowship in Otology, Neurotology and Skull Base Surgery at the University of Michigan. Dr. Sataloff is Chairman of the Boards of Directors of the Voice Foundation and of the American Institute for Voice and Ear Research. He also has served as Chairman of the Board of Governors of Graduate Hospital; President of the American Laryngological Association, the International Association of Phonosurgery, the Pennsylvania Academy of Otolaryngology – Head and Neck Surgery, and The American Society of Geriatric Otolaryngology, and in numerous other leadership positions. Dr. Sataloff is Editor-in-Chief of the *Journal of Voice*; Editor Emeritus of *Ear, Nose and Throat Journal*; Associate Editor of the *Journal of Singing*; on the Editorial Board of *Medical Problems of Performing Artists*, and is an editorial reviewer for numerous otolaryngology journals. He has written over 1,000 publications including 70 books, and he has been awarded more than \$5 million in research funding. His H-index is 43 (as of January 2022). He has invented more than 75 laryngeal microsurgical instruments distributed currently by Integra Medical, ossicular replacement prostheses produced by Grace Medical, and a novel laryngeal prosthesis (patent pending). He holds a patent on a unique thyroplasty implant. His medical practice is limited to care of the professional voice and to otology/neurotology/skull base surgery. Dr. Sataloff has developed numerous novel surgical procedures including total temporal bone resection for formerly untreatable skull base malignancy, laryngeal microflap and mini-microflap procedures, vocal fold lipoinjection, vocal fold lipoinplantation, and others. Dr. Sataloff is recognized as one of the founders of the field of voice, having written the first modern comprehensive article on care of singers, and the first chapter and book on care of the professional voice, as well as having influenced the evolution of the field through his own efforts and through the Voice Foundation for over 4 decades. Dr. Sataloff has been recognized by Best Doctors in America (Woodward White Athens) every year since 1992, *Philadelphia Magazine* since 1997, and Castle Connolly's "America's Top Doctors" since 2002.



### Keynote Lecture 3

#### Phonosurgery in professional singers, why, when and how

Date: 9:50 - 10:20 (JST), OCTOBER 13 (Thu.), 2022

Room: Room 1 (COSMOS HALL)

**Guillermo Campos**

Otolaryngology Department, Fundación Santa Fe University Hospital, Columbia

Dr. Campos' practice is entirely devoted to Laryngology, Phonosurgery and Surgery of the Airway.

He is the Director of the Instituto de Laringología in Bogotá, Colombia, an institution dedicated to providing state of the art diagnosis and treatment for patients with laryngeal diseases, voice and airway problems, and to improving standards of care by means of continuous work at the research and training laboratory of the institute, a cutting-edge facility in which all framework, microsurgical and laser procedures of the larynx and the airway are constantly simulated and upgraded.

He is member of the Department of Otorhinolaryngology, and Director of the Reflux Clinic at the Fundación Santa Fe University Hospital, Laryngology Professor at the Universidad del Rosario School of Medicine, President of the Latin American Association of Laryngology and Phonosurgery, member of the Board of Directors of the International Association of Phonosurgery, member of the Laryngotracheal Stenosis Committee of the European Laryngological Society, and member of editorial boards of medical journals in the area of laryngology.

He is internationally known for his detailed laryngoscopic examination techniques in the office setting, as well as for the refinement of microsurgical procedures to treat professional voice users.

He is continuously participating in academic and training activities around the world, and regularly hosts hands on workshops along with world wide opinion leaders in the field, to train surgeons from different countries in the most advanced diagnostic and surgical techniques in phonosurgery, airway surgery and laser technologies.

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## Keynote Lecture 4

### Infection with HPV6 and 11, and voice

Date: 10:20 - 10:50 (JST), OCTOBER 13 (Thu.), 2022

Room: Room 1 (COSMOS HALL)

Frederik G Dikkers

Department of Otolaryngology - Head and Neck Surgery, Amsterdam University Medical Centers, Netherland

Frederik G Dikkers MD, PhD, born in 1957, was appointed Professor in Otorhinolaryngology and Head of the department in the Academic Medical Center in 2016 at the Amsterdam University Medical Centers, the Netherlands. He is Director of the training program for specialists. For more than ten years he was an Associated Professor of Laryngology at the University Medical Center Groningen in the Netherlands. He was appointed Visiting Professor at the University of Belgrade, Serbia in 2010.

His clinical interests span the full range of laryngeal and tracheal problems in children and adults. He was founder and chairman of the local working group on tracheal intervention. The Groningen dilatation tracheoscope was developed by his group.

From 2008 - 2016, prof. Dikkers has been general secretary of the European Laryngological Society, where he is still member of the Presidential Council (currently: international relations, as well as portfolio science). He is a board member of the International Association of Phonosurgery IAP, and full member of the American Broncho-Esophagological Association ABEA and American Laryngological Association ALA. He is a reviewer of >15 journals, and author or coauthor of >135 international peer reviewed articles. He has coauthored 56 chapters in various textbooks on the larynx and on the difficult airway.

He has supervised several PhD projects in the field of Recurrent Respiratory Papillomatosis and Complications of head and neck infections, and is co-supervisor of PhD projects in, among others, Narrow Band Imaging and Tracheal embryology. He has also supervised more than 50 master's theses in medicine. He has given more than 780 presentations in more than 35 countries on all continents. He was Teacher of the year of the Faculty of Medicine of the University of Groningen, and received the Isshiki Award from the British Laryngological Association, as well as the Kleinsasser Award from the European Laryngological Society.



## Keynote Lecture 5

### Regenerative medicine and tissue engineering

Date: 13:20 - 13:50 (JST), OCTOBER 13 (Thu.), 2022

Room: Room 1 (COSMOS HALL)

Shigeru Hirano

Department of Otolaryngology Head and Neck Surgery, Kyoto Prefectural University of Medicine, Japan

Professor and chair, Department of Otolaryngology Head and Neck Surgery, Kyoto Prefectural University of Medicine  
President of Japan Society for Head and Neck Surgery

Faculty of Medicine, Kyoto University, 1986-1990.

Research Fellow at Division of Head and Neck Surgery, UCLA, 1999-2000.

Research Fellow at Division of Head and Neck Surgery, University of Wisconsin-Madison, 2001-2003.

Assistant Professor at the Department of Otolaryngology-Head & Neck Surgery, Kyoto University, 1998-2003.

Associate Professor at the Department of Otolaryngology-Head & Neck Surgery, Kyoto University, 2005 to 2016.

Professor and chair, Department of Otolaryngology Head and Neck Surgery, Kyoto Prefectural University of Medicine, 2016-



## Keynote Lecture 6

### Phonomicrosurgery and office-based surgery using the laser: thermal vs. photo-thermal effects

Date: 13:50 - 14:20 (JST), OCTOBER 13 (Thu.), 2022

Room: Room 1 (COSMOS HALL)

#### Peak Woo

Department of Otolaryngology Head and Neck Surgery, Icahn School of Medicine at Mount Sinai, USA

Dr. Peak Woo is an otolaryngologist practicing in New York City. His practice is limited to laryngology with sub-specialization in voice and swallowing disorders. His primary professional and research interests are in the field of voice production and its functional restoration.

Born in Taiwan, Dr. Woo immigrated with his family to the New York area at the age of 11. In 1972, he enrolled in the six year BA/MD joint degree program offered by the College of Liberal Arts and the School of Medicine at Boston University. After graduation in 1978, his internship in surgery and medicine was at the Hospital of the University of Pennsylvania. Dr. Woo returned to Boston to do his otolaryngology residency at the combined Boston University/Tufts University otolaryngology training program. His chairman was Stuart Strong who pioneered laser use in laryngology. In 1983 he entered academic medicine at the State University of New York Upstate Medical Center in Syracuse. He returned to Boston at the New England Medical Center as Vice Chairman of Otolaryngology in 1994. In 1996, he took over as the director of the Grabscheid Voice Center at the Icahn School of Medicine at Mount Sinai and became the Grabscheid Professor of Otolaryngology in 2002. After spending a decade as academic faculty member at Mount Sinai Medical Center, he is now a Clinical Professor in Otolaryngology Head and Neck Surgery at the Icahn School of Medicine at Mount Sinai New York. In his clinical practice of laryngology in New York City, he continues to participate in the training of medical students, otolaryngology residents and laryngology fellows. He has hosted many international observers and fellows.

Dr. Woo was a past president of the American Laryngological Association, the American Broncho-Esophagological Association, the New York Laryngological Society and the New York Head and Neck Society. He was a past Vice President of the Eastern Section of The Triological Society. Dr. Woo's past community activities include Doctor to the New York State Theater and the New York City Opera and he serves as advisor to the New York Singing Teacher Association Professional Development Program. He was an adjunct lecturer at the Columbia Teachers College.

Dr. Woo lives in New Jersey with his wife Celia. He has three grown children Christina, Geoffrey, and Ryan. He enjoys travel when not working.



## Keynote Lecture 7

### Challenges in vocal rehabilitation: From changing the vocal parameters to creating a better communication profile

Date: 9:40 - 10:10 (JST), OCTOBER 14 (Fri.), 2022

Room: Room 1 (COSMOS HALL)

Mara Behlau

SLP, CEV-UNIFESP-Insper, Brazil

Mara Behlau, PhD is a Brazilian speech-language pathologist. She is the director of the “Centro de Estudos da Voz” - CEV, where she coordinates the eldest specialization program in voice (the CECEV), in Brazil, a 2-year course, exclusively for SLPs, currently at the 21st class. Moreover, she coordinates the “Formação Integrada em Voz – FIV”, an open platform of one-year graduate program for all professions involved in the voice area, currently in its 4<sup>th</sup> edition. She is also professor at the Graduate Program in Human Communication Disorders at UNIFESP-EPM, São Paulo, Brazil, where she supervises master and doctoral candidates. She was president of the Brazilian Society of Laryngology and Voice (SBLV), president of the Brazilian Association of Speech-Language Pathology and Audiology (SBFa) and president of the International Association of Communication Sciences and Disorders (IALP). She is also member of the board of the International Association of Phonosurgery – IAP. She has received the ASHA FELLOW title and also the Certificate of Recognition for Outstanding Contributions in International Achievements, both in 2014. She is also affiliate professor at INSPER university, São Paulo, where she teaches communication for business – interpersonal relationships. She has been involved at The Voice Foundation for more than 30 years and she is current a member of the Board of Directors. She is author of many textbooks in the field of voice.



## **Keynote Lecture 8**

### **Sub-epithelial benign lesions of the vocal fold - in search of an international classification**

Date: 10:10 - 10:40 (JST), OCTOBER 14 (Fri.), 2022

Room: Room 1 (COSMOS HALL)

Geraldo Druck Sant'Anna

Universidade Federal de Ciências da Saúde de Porto Alegre, Brazil



## Keynote Lecture 9

### The evolution of CO2 lasers in phonosurgery

Date: 13:20 - 13:50 (JST), OCTOBER 14 (Fri.), 2022

Room: Room 1 (COSMOS HALL)

Jean Abitbol

Oto-rhino-laryngologie et chirurgie cervico-faciale Audiophonologie de l'enfant, ancien Chef de Clinique, France

Jean Abitbol, M.D. is Otolaryngologist, Head Neck surgeon, a Phoniatician and a Laser specialist. He performs surgery of the voice and treats voice professionals for 35 years. He did his medical study at the "Faculté de Médecine de Paris (France)". He was Co-Chairman of the Department of Otolaryngology Head Neck Surgery at Beaujon Hospital and Chairman of the Department of Otolaryngology Head Neck Surgery and Laser research Stell Hospital (Ile de France) from 1981.till 1997. He is in private practice in Paris since 1981

He was knighted in May 2005 "Chevalier de la Legion d'Honneur". by the Ministry of Health on the behalf of the President de la République Française.

He was nominated on September 2007 Adjunct Professor, Department of Otolaryngology – Head and Neck Surgery, Drexel University College of Medicine of Philadelphia (USA). He is ex-President of the 20<sup>th</sup> International Society for Laser Surgery and Medicine and now on the Board of the Executive Council of the International Society for Laser Surgery and Medicine

He is one of the founders of the European Laser Association. He is on the Board of director of the Voice Foundation. He is on the Board of the International Association of Phono-Surgery. He is a member of numerous international scientific societies.

In September 2005, he received the certificate of Honour Award at the Foundation of the American Academy of Otolaryngology-Head and Neck Surgery. He received, three times 2006, 2012, 2016, the Presidential Citation of the American Laryngological Association . in April 2022 the presidential citation of the Triological society at the COSM

His passion doing medical films on Art and Science of the Voice since 1985 with "the vocal imprint «which received 5 awards. In February 2006, for his participation on "The Inner Adventure", In June 2013: the mystery of the voice. He received the "Silver World Medal at the New York USA Festivals 2006".

#### His books:

Scientific: In April 1995, he is the author of the 520 pages book: Laser Voice Surgery, who compiles his experience over 5,000 cases in this book. He wrote more than 300 medical publications. He has contributed to many scientific books, His main contributions were on laser voice surgery, the female voice and endocrine disorders, and the CT-scan 3D of the larynx:

For lay people, he published 5 books:

"The Odyssey of the Voice": a tremendous journey through the human voice. 2005

"The power of the Voice"2019

"The Female Voice"2019

"The beautiful story of the Voice": a voyage from the chimpanzee to the Android.2020

"The Voices that lead us" 2022



## Keynote Lecture 10

### Glottoplasty technique for male-to-female transgender patients

Date: 13:50 - 14:20 (JST), OCTOBER 14 (Fri.), 2022

Room: Room 1 (COSMOS HALL)

**Markus Maria Hess**

**Medical Voice Center, University Medical Center Hamburg-Eppendorf, Germany**

Markus Hess, MD, is a dedicated otolaryngologist and phoniatician, subspecializing in laryngology, phonosurgery, and professional voice use. Graduation in Düsseldorf Berlin. Since 1991 board-certified otolaryngologist, since 1995 board-certified phoniaticist. In 1998 he accepted a full professor position at the University Medical Center Hamburg-Eppendorf in Phoniatics. He is co-founder and Head of the first Voice Clinic in Germany since 2014, the MEDICAL VOICE CENTER in Hamburg.

He specialized in the care of the performing voice and the treatment of voice disorders. Dr. Hess has long-standing experience in performing endoscopic and open surgical procedures on the larynx. He has invented many techniques for diagnostics and surgical interventions in laryngology and holds a patent on LED-stroboscopy. Dr. Hess brings a multidisciplinary approach to such patients as singers, actors and public speakers. His surgical patients receive cutting-edge minimally invasive techniques in laryngeal microsurgery as well as office-based voice surgery in topical anesthesia. Dr. Hess has authored and co-authored over hundred peer-reviewed articles. He is chair of Pan European Conferences (PEVOC) since 2015, a founding member of the 'German Society of Phonosurgery', founder and Executive Board member of the European Academy of Voice (EAV), Past-President of the international Collegium Medicorum Theatri (CoMeT) 2015-2018, Secretary General of International Association of Phonosurgery (IAP), co-founder and first president of the International Association of TransVoice Surgeons. He serves in multiple capacities on many international editorial and scientific boards and committees. Dr. Hess teaches regularly at national and international voice conferences and runs own courses in cutting-edge phonosurgery techniques.

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## Keynote Lecture 11

**Improving diagnosis in voice pathology using a combination of videoendoscopy, high speed video and digital chromoendoscopy (I-SCAN)**

Date: 14:20 - 14:50 (JST), OCTOBER 14 (Fri.), 2022

Room: Room 1 (COSMOS HALL)

**Masao Kume**

**Department of Otolaryngology, Hospital Angeles Pedregal, Mexico**

Dr. Masao Kume FACS is a graduate from Faculty of Medicine, National University of México.

Residence in Otorhinolaryngology in High Studies Division of National University of Mexico.

Fellowship in Laryngeal Microsurgery in the Department of Otolaryngology, Keio University Hospital, School of Medicine in Tokyo.

He is a coordinator of Department of Otorhinolaryngology and Director of Voice Care Clinic in Hospital Angeles del Pedregal, México City.

Director of Pentax Medical Learnign Center. President of Mexican Voice Foundation and Mexican Society of Laryngology and Phonosurgery. Director of Masters de la Fonocirugia de las Américas Course.

Editor of Patologia Laríngea y Fonocirugia book in spanish with Prof Lucian Sulica from Sean Park Institute of the Voice, Weill Cornell Medical College.

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# Scientific Programs

## Keynote Lecture 1

8:50 – 9:20 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Unilateral vocal fold paralysis and medialization laryngoplasty

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Chair: **Shigeru Hirano** (Department of Otolaryngology Head & Neck Surgery, Kyoto Prefectural University of Medicine, Japan)

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**KL1 Unilateral vocal fold paralysis and medialization laryngoplasty**

**Michael S. Benninger**

Department of Otolaryngology-Head and Neck Surgery, Cleveland Clinic Lerner College of Medicine Head and Neck Institute, The Cleveland Clinic, USA

## Keynote Lecture 2

9:20 – 9:50 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Laryngology: the state-of-the-art

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Chair: **Michael S. Benninger** (Department of Otolaryngology-Head and Neck Surgery, Cleveland Clinic Lerner College of Medicine Head and Neck Institute, The Cleveland Clinic, USA)

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**KL2 Laryngology: the state-of-the-art**

**Robert T. Sataloff**

Department of Otolaryngology – Head & Neck Surgery, Drexel University College of Medicine, USA

## Keynote Lecture 3

9:50 – 10:20 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Phonosurgery in professional singers, why, when and how

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Chair: **Marc Remacle** (Department of ORL - Head and Neck Surgery, Centre Hospitalier de Luxembourg, Belgium)

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**KL3 Phonosurgery in professional singers, why, when and how**

**Guillermo Campos**

Otolaryngology Department, Fundación Santa Fe University Hospital, Columbia

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## Keynote Lecture 4

10:20 – 10:50 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Infection with HPV6 and 11, and voice

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Chair: Markus Maria Hess (Medical Voice Center, University Medical Center Hamburg-Eppendorf, Germany)

#### KL4 Infection with HPV6 and 11, and voice

**Frederik G Dikkers**

Department of Otolaryngology - Head and Neck Surgery, Amsterdam University Medical Centers, Netherland

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## Keynote Lecture 5

13:20 – 13:50 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Regenerative medicine and tissue engineering

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Chair: Nathan Welham (Department of Surgery, Division of Otolaryngology-Head & Neck Surgery, University of Wisconsin-Madison, USA)

#### KL5 Regenerative medicine and tissue engineering

**Shigeru Hirano**

Department of Otolaryngology Head and Neck Surgery, Kyoto Prefectural University of Medicine, Japan

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## Keynote Lecture 6

13:50 – 14:20 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Phonemicsurgery and office-based surgery using the laser: thermal vs. photo-thermal effects

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Chair: Seth/Hammond Dailey (Otolaryngology – Head and Neck Surgery, University of Wisconsin School of Medicine and Public Health / UW Health, USA)

#### KL6 Phonemicsurgery and office-based surgery using the laser: thermal vs. photo-thermal effects.

**Peak Woo**

Department of Otolaryngology Head and Neck Surgery, Icahn School of Medicine at Mount Sinai, USA

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## Keynote Lecture 7

9:40 – 10:10 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### Challenges in vocal rehabilitation: From changing the vocal parameters to creating a better communication profile

Chair: Kristiane Van Lierde (Department of Speech-Language and Hearing, University Gent, Belgium)

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**KL7**      **Challenges in vocal rehabilitation: From changing the vocal parameters to creating a better communication profile**

**Mara Behlau**

SLP, CEV-UNIFESP-Insper, Brazil

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## Keynote Lecture 8

10:10 – 10:40 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### Sub-epithelial benign lesions of the vocal fold – in search of an international classification

Chair: Domingos Tsuji (ENT Department, University of Sao Paulo – School of Medicine, Brazil)

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**KL8**      **Sub-epithelial benign lesions of the vocal fold – in search of an international classification**

**Geraldo Druck Sant'Anna**

Universidade Federal de Ciências da Saúde de Porto Alegre, Brazil

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## Keynote Lecture 9

13:20 – 13:50 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### The evolution of CO2 lasers in phonosurgery (WITHDRAW)

Chair: Guillermo Campos (Otolaryngology Department, Fundación Santa Fe University Hospital, Columbia)

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**KL9**      **The evolution of CO2 lasers in phonosurgery**

**Jean Abitbol**

Oto-rhino-laryngologie et chirurgie cervico-faciale Audiophonologie de l'enfant, ancien Chef de Clinique, France

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## Keynote Lecture 10

13:50 – 14:20 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### Glottoplasty technique for male-to-female transgender patients

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Chair: Lance Maron (The Voice & Swallowing Centre Netcare Parklane Hospital, University of The Witwatersrand, South Africa)

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**KL10**      **Glottoplasty technique for male-to-female transgender patients**

**Markus Maria Hess**

Medical Voice Center, University Medical Center Hamburg-Eppendorf, Germany

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## Keynote Lecture 11

14:20 – 14:50 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### Improving diagnosis in voice pathology using a combination of videoendoscopy, high speed video and digital chromoendoscopy (I-SCAN)

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Chair: Koichi Omori (Department of Otolaryngology Head and Neck Surgery, Graduate School of Medicine, Kyoto University, Japan)

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**KL11**      **Improving diagnosis in voice pathology using a combination of videoendoscopy, high speed video and digital chromoendoscopy (I-SCAN)**

**Masao Kume**

Department of Otolaryngology, Hospital Angeles Pedregal, Mexico

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## Symposium 1

8:00 – 8:50 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Phonemicsurgery

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Chair: Ichiro Tateya (Department of Otolaryngology- Head and Neck Surgery, Fujita Health University, Japan)

Moderator: Guillermo Campos (Otolaryngology Department, Fundación Santa Fe University Hospital, Columbia)

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**SY1-1**      **Bipedicled Vocal Fold Mucosal Flap Use in Phonemicsurgery**

**Domingos Tsuji**

ENT Department, University of Sao Paulo – School of Medicine, Brazil

**SY1-2**      **Coblation in the larynx**

**Michael Benninger**

Department of Otolaryngology-Head and Neck Surgery, Cleveland Clinic Lerner College of Medicine Head and Neck Institute, The Cleveland Clinic, USA

**SY1-3**      **Evaluation of outcomes in phonosurgery and therapy**

**Debra Jean Phyland**

Monash University, Australia

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**SY1-4 Anesthesia ode Laryngology**

**Charanjit Bahniwal**

Anesthesiology, Akron General Cleveland Clinic, USA

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**Symposium 2**

**8:00 – 8:40 (JST), OCTOBER 13 (Thu.), 2022 Room 2 (ATAGO-NO-MA)**

**Framework**

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**Chair: Niro Tayama** (Otolaryngology, Head and Neck Surgery, National Center for Global Health and Medicine, Japan)

**Moderator: Nicolas Maragos** (Otorhinolaryngology, Head and Neck Surgery, Mayo Clinic, USA)

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**SY2-1 Augmentation and the role of 3-D moulding during surgery**

**Markus Maria Hess**

Medical Voice Center, University Medical Center Hamburg-Eppendorf, Germany

**SY2-2 Surgery for the Open Posterior Glottis – Thyroplasties, arytenoid adduction with posterior window, and reverse cricoid split for posterior laryngeal gap –**

**Nicolas Maragos**

Otorhinolaryngology, Head and Neck Surgery, Mayo Clinic, USA

**SY2-3 Reverse cricoid split as revision surgery after unsuccessful arytenoid adduction for vocal fold paralysis**

**Yoichiro Sugiyama**

Department of Otolaryngology Head & Neck Surgery, Kyoto Prefectural University of Medicine, Japan

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**Symposium 3**

**8:00 – 9:00 (JST), OCTOBER 13 (Thu.), 2022 Room 3 (HIE-NO-MA)**

**Phonomicrosurgery**

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**Chair: Akihiro Shiotani** (Department of Otolaryngology-Head and Neck Surgery, National Defence Medical College, Japan)

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**SY3-1 Phonosurgery approach: differences between adults and children.**

**Iris Rodriguez**

Hospital Italiano de Buenos Aires, Argentine

**SY3-2 Novel Trans-Cutaneous Laryngeal Surgery for Immature glottic web**

**Jin-Ho Sohn**

Otolaryngology-Head and Neck Surgery, Kyungpook National University Chilgok Hospital, ROK

**SY3-3 High Flow Oxygen (THRIVE) and its role in micro laryngeal surgery**

**Theodore Athanasiadis<sup>1,2)</sup>**

Department of Otolaryngology, Flinders University of South Australia, Australia<sup>1)</sup>, Head and Neck Surgery Flinders Medical Centre, Adelaide Voice Specialists, Australia<sup>2)</sup>

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**SY3-4 Surgical management of RRP**

**Koichiro Saito**

Department of Otolaryngology-Head and Neck Surgery, Kyorin University School of Medicine, Japan

**SY3-5 Surgical techniques to prevent vocal cord scarring after mucosal resection**

**Shunichi Chitose**

Department of Otolaryngology-Head and Neck Surgery, Kurume University School of Medicine, Japan

**Symposium 4**

**8:40 – 9:30 (JST), OCTOBER 13 (Thu.), 2022 Room 2 (ATAGO-NO-MA)**

**Assessment**

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**Chair: Nobuhiko Oridate** (Department of Otolaryngology-Head & Neck Surgery, Yokohama City University School of Medicine, Japan)

**Moderator: Byung-Joo Lee** (Department of Otorhinolaryngology, Pusan National University Hospital, ROK)

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**SY4-1 High-speed digital image of the inner edge of the vocal cords**

**Yoshihiro Iwata**

Otorhinolaryngology Head and Neck Surgery / School of medicine, Fujita Health University, Japan

**SY4-2 Changing diagnoses with improved endoscopy techniques**

**Susanne Fleischer**

Medical Voice Center, Germany

**SY4-3 Use of a new high speed camera for fiberoptic laryngoscopy of voice onset in patient with muscle tension dysphonia and spasmodic dysphonia**

**Peak Woo**

Department of Otolaryngology Head and Neck Surgery, Icahn School of Medicine at Mount Sinai, USA

**SY4-4 Use of novel Voice Screen application for objective measurement of phonosurgical functional outcomes**

**Virgilijus Uloza**

Department Otolaryngology, Lithuanian University of Health Sciences, Lithuania

## Symposium 5

9:30 – 10:30 (JST), OCTOBER 13 (Thu.), 2022 Room 2 (ATAGO-NO-MA)

### Professional voice

Chair: Haruhito Saida (Saida ENT Clinic, Vocal Art Science Laboratory, VoiceTec, Japan)

Moderator: Debra Jean Phyland (Monash University, Australia)

- SY5-1 Occupational voice: risk assessment, prehab & determination of return to work fitness**  
**Debra Jean Phyland**  
Monash University, Australia
- SY5-2 How do we decide when to operate on a Singer?**  
**Iris Rodriguez**  
Hospital Italiano de Buenos Aires, Argentine
- SY5-3 Assessment of the singing voice**  
**William Riley**  
William Riley Studios, Opera America, International Horn Society, NARAS the Grammy Academy, USA
- SY5-4 Evaluation of singing voice function using newly developed two types of Voice-Maps**  
**Haruhito Saida**  
Saida ENT Clinic, Vocal Art Science Laboratory, VoiceTec, Japan
- SY5-5 Professional Voice: Defining Protocols for Voice Rest & Return to Performance based on Individual Patient Cases**  
**Lance Maron**  
The Voice & Swallowing Centre Netcare Parklane Hospital, University of The Witwatersrand, South Africa

## Symposium 6

10:30 – 11:30 (JST), OCTOBER 13 (Thu.), 2022 Room 2 (ATAGO-NO-MA)

### Swallow

Chair: Yasushi Fujimoto (Department of Otolaryngology-Head and Neck Surgery, Aichi Medical University School of Medicine, Japan)

Moderator: Pieter Noordzij (Otolaryngology – Head and Neck Surgery, Boston University, USA)

- SY6-1 Management of aspiration**  
**Rui Imamura**  
Service of Bucopharyngology, University of São Paulo, Brazil
- SY6-2 Role of Epiglottic Surgery in Dysphagia Management**  
**Dinesh Khatri Chhetri**  
Department of Head and Neck Surgery, University of California, USA

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- SY6-3 Surgical intervention to swallowing dysfunction following chemoradiotherapy**  
**Yoichiro Sugiyama**  
Department of Otolaryngology Head & Neck Surgery, Kyoto Prefectural University of Medicine, Japan
- SY6-4 Preoperative predictors and mechanisms of dysphagia after transoral surgery**  
**Kazunori Fujiwara**  
Division of Otolaryngology, Head and Neck Surgery, Tottori University, Japan

## Symposium 7

13:20 – 14:20 (JST), OCTOBER 13 (Thu.), 2022 Room 2 (ATAGO-NO-MA)

### Transgender

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**Chair: Yusuke Watanabe** (Tokyo Voice Center, International University of Health and Welfare, Japan)  
**Moderator: Markus Maria Hess** (Medical Voice Center, University Medical Center Hamburg-Eppendorf, Germany)

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- SY7-1 Effect of sex hormone on the extracellular matrix in the rat vocal folds**  
**Byung-Joo Lee**  
Department of Otorhinolaryngology, Pusan National University Hospital, ROK
- SY7-2 Voice feminization**  
**Taner Yilmaz**  
Department of Otolaryngology-Head & Neck Surgery, Hacettepe University Faculty of Medicine, Turkey
- SY7-3 Efficacy of thyroplasty for the transsexual patients**  
**Kazuhiro Nakamura**  
Department of Otolaryngology-Head and Neck Surgery, Nihon University, Japan
- SY7-4 Glottoplasty for raising the voice pitch**  
**Teemu J. Kinnari**  
Department of Otorhinolaryngology – Head and Neck Surgery, Helsinki University Hospital Hospital, Finland
- SY7-5 Voice outcome of glottoplasty in transgender women**  
**Evelien D'Haeseleer**  
Department of Rehabilitation Sciences, Centre for speech and language sciences Ghent University, Belgium

## Symposium 8

14:20 – 15:10 (JST), OCTOBER 13 (Thu.), 2022 Room 2 (ATAGO-NO-MA)

### Assessment

**Chair: Makoto Ogawa** (Department of Otolaryngology – Head and Neck Surgery, Osaka City General Hospital, Japan)

**Moderator: Masao Kume** (Department of Otolaryngology, Hospital Angeles Pedregal, Mexico)

**SY8-1 Estimating Vocal Fold Stiffness: Using the Relationship between Subglottic Pressure and Fundamental Frequency of Phonation as an Analog**

**Wen-Hsuan Tseng**

Department of Otolaryngology, Head and Neck Surgery, National Taiwan University Hospital, Taiwan

**SY8-2 The Voice Vibratory Assessment with Laryngeal Imaging (VALI) Form: An updated stroboscopy rating form**

**Rita R. Patel**

Department of Speech, Language and Hearing Sciences, Indiana University / Otolaryngology Head & Neck Surgery, Indiana University School of Medicine, USA

**SY8-3 Simultaneous use of electroglottography and gastroesophageal manometry for assessing the balance between laryngeal resistance and expiratory effort during crescendo phonation**

**Makoto Ogawa**

Department of Otolaryngology – Head and Neck Surgery, Osaka City General Hospital, Japan

**SY8-4 High-speed digital imaging: utility in the assessment of normal and abnormal voices**

**Akihito Yamauchi**

Department of Otolaryngology and Head and Neck Surgery, The University of Tokyo, Japan

## Symposium 9

15:30 – 16:50 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Phonosurgery

**Chair: Hiromi Nagai** (Department of Otorhinolaryngology, Yamato Municipal Hospital, Japan)

**Moderator: Peak Woo** (Department of Otolaryngology Head and Neck Surgery, Icahn School of Medicine at Mount Sinai, USA)

**SY9-1 Laryngeal framework surgery using piezoelectric knife: Management of ossified thyroid cartilage**

**Shunichi Chitose**

Department of Otolaryngology-Head and Neck Surgery, Kurume University School of Medicine, Japan

**SY9-2 Indirect phonosurgery in artistic voice results**

**Rosa Eugenia Chávez Calderón**

Centro de Foniatria y Audiología, Mexico

- SY9-3    Fiberendoscopic Phonosurgery (FEPS): indications and techniques**  
**Marco Stacchini**  
ENT, Bufalini Hospital, Italy
- SY9-4    Phonosurgery after cordectomy: Thyroplasty type one and fiberendoscopic injection laryngoplasty**  
**Marco Stacchini**  
ENT, Bufalini Hospital, Italy
- SY9-5    Newer anticoagulants and laryngeal surgery**  
**Shiva Murthy Sale**  
Department of Cardiothoracic Anesthesia, Cleveland Clinic Foundation, USA
- SY9-6    Phonosurgery considering anterior and posterior maculae flavae of the human vocal folds as a stem cell niche**  
**Kiminori Sato, Shun-ichi Chitose, Kiminobu Sato, Fumihiko Sato, Hirohito Umeno**  
Department of Otolaryngology-Head and Neck Surgery, Kurume University School of Medicine, Japan

## Symposium 10

15:30 – 16:20 (JST), OCTOBER 13 (Thu.), 2022 Room 2 (ATAGO-NO-MA)

### Laser

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**Moderator: Shigeru Hirano** (Department of Otolaryngology Head & Neck Surgery, Kyoto Prefectural University of Medicine, Japan)

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- SY10-1    The role of the blue laser compared to the KTP laser**  
**Markus Maria Hess**  
Medical Voice Center, University Medical Center Hamburg-Eppendorf, Germany
- SY10-2    Unsedated office-based Blue laser therapy**  
**Abdul Latif H Hamdan**  
Otolaryngology, Head and neck Surgery, Laryngology, American University of Beirut Medical Center, Lebanon
- SY10-3    Laser Office-based Laryngology**  
**Anastasios Hantzakos**  
Otolaryngology - Head and Neck Surgery, Cleveland Clinic Abu Dhabi, UAE
- SY10-4    Office based angiolytic laser surgery for vocal fold polyp**  
**Toshiki Kobayashi**  
Department of ENT/Head and Neck Surgery, The Jikei University Kashiwa Hospital, Japan

## Symposium 11

15:30 – 16:20 (JST), OCTOBER 13 (Thu.), 2022 Room 3 (HIE-NO-MA)

### Framework

Chair: Takaharu Nito (Department of Otolaryngology, Saitama Medical Hospital, Japan)

Moderator: James Phillip Thomas (Laryngology, Voicedoctor.net, USA)

**SY11-1 Feminization Laryngoplasty**

**James Phillip Thomas**

Laryngology, Voicedoctor.net, USA

**SY11-2 Vocal Implant System: An Innovative Type I Thyroplasty Technique**

**Guan-Min Ho**

Otorhinolaryngology Head and Neck, Yomin ENT & Pediatric Clinic/Mackay Memorial Hospital, Taiwan

**SY11-3 New laryngeal device for thyroplasty**

**Ying-Ta Lai**

Department of Otolaryngology, Shuang Ho Hospital, Taipei Medical University, Taiwan

**SY11-4 Analysis of three dimensional movement of immobile vocal fold for correct diagnosis and planning surgical strategy**

**Ryoji Tokashiki**

Shinjuku Voice Clinic, Japan

## Symposium 12

16:50 – 17:50 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Airway/stenosis

Chair: Noriko Morimoto (Department of Otolaryngology, National Center for Child Health and Development, Japan)

Moderator: Ramon Franco (Department of Otolaryngology – Head and Neck Surgery, Harvard Medical School, Mass Eye and Ear, USA)

**SY12-1 Laryngotracheal stenosis and the voice**

**Guillermo Campos**

Otolaryngology Department, Fundación Santa Fe University Hospital, Columbia

**SY12-2 SILSI (Serial Intralesional Steroid Injection) for the treatment of Laryngeal Stenosis: 12 year Outcomes and Safety**

**Ramon Franco**

Department of Otolaryngology – Head and Neck Surgery, Harvard Medical School, Mass Eye and Ear, USA

**SY12-3 Laryngotracheal stenosis in children**

**Noriko Morimoto**

Department of Otolaryngology, National Center for Child Health and Development, Japan

**SY12-4 Endoscopic Z-plasty for treatment of supraglottic stenosis**  
**Taner Yilmaz**  
Department of Otolaryngology-Head & Neck Surgery, Hacettepe University Faculty of Medicine, Turkey

**SY12-5 A tissue-engineering approach for stenosis of the trachea and/or cricoid**  
**Shin-ichi Kanemaru**  
Department of otolaryngology and HNS, Tazuke Kofukai, Medical Research Institute, Kitano Hospital, Japan

## Symposium 13

16:20 – 17:10 (JST), OCTOBER 13 (Thu.), 2022 Room 2 (ATAGO-NO-MA)

### Neurology

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**Chair: Taku Yamashita** (Department of Otorhinolaryngology-Head and Neck Surgery, Kitasato University, School of Medicine, Japan)

**Moderator: Chen-Chi Wang** (Department of Otolaryngology Head & Neck Surgery, Taichung Veterans General Hospital, Taiwan)

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**SY13-1 Neuromyectomy for Adductor Spasmodic Dysphonia: Recurrences, complications and voice quality**

**Domingos Tsuji**

ENT Department, University of Sao Paulo – School of Medicine, Brazil

**SY13-2 Partial arytenoidectomy for bilateral vocal fold paralysis**

**Shinsuke Suzuki**

Department of Otorhinolaryngology & Head and Neck Surgery, Akita University Graduate School of Medicine, Japan

**SY13-3 Common Causes of Hoarseness that are Commonly Missed**

**Pieter Noordzij**

Otolaryngology – Head and Neck Surgery, Boston University, USA

**SY13-4 Evaluation of autologous fascia implantation with controlled release of basic fibroblast growth factor for the treatment of unilateral laryngeal paralysis**

**Hiroki Nagai<sup>1)</sup>, Koichiro Nishiyama<sup>2)</sup>, Yutomo Seino<sup>3)</sup>, Yasuhiko Tabata<sup>4)</sup>, Taku Yamashita<sup>3)</sup>**

Department of Otolaryngology, Yamato Municipal Hospital, Japan<sup>1)</sup>, Nishiyama ENT Clinic, Japan<sup>2)</sup>, Department of Otolaryngology Head - Neck Surgery, Kitasato University, Japan<sup>3)</sup>, Department of Regeneration Science and Engineering, Institute for Life and Medical Sciences (LiMe), Kyoto University, Japan<sup>4)</sup>



## Symposium 14

16:20 – 17:20 (JST), OCTOBER 13 (Thu.), 2022 Room 3 (HIE-NO-MA)

### Scar

Chair: Masaru Yamashita (Department of Otolaryngology-Head and Neck Surgery, Graduate School of Medical and Dental Sciences, Kagoshima University, Japan)

Moderator: Seong Keun Kwon (Seoul National University Hospital, ROK)

#### SY14-1 Treatment of vocal fold scar

**Seth/Hammond Dailey**

Otolaryngology – Head and Neck Surgery, University of Wisconsin School of Medicine and Public Health / UW Health, USA

#### SY14-2 Pathophysiology of Fibrosis in the Vocal Fold: Current Research, Future Treatment Strategies, and Obstacles to Restoring Vocal Fold Pliability

**Yoshihiko Kumai**

Department of Otolaryngology Head and Neck Surgery, Nagasaki University, Japan

#### SY14-3 Bilateral medialisation surgery for atrophy or scar

**Elisabeth Victoria Sjogren**

ENT-Head and Neck, Leiden University Medical Center, Netherland

#### SY14-4 Silicone tube placement therapy in patients with AGW

**Hirohito Umeno, Takashi Kurita, Toshihiko Kawaguchi, Akira Hiraki, Shun-ichi Chitose**

Department of Otolaryngology- Head and Neck Surgery, Kurume University School of Medicine, Japan

#### SY14-5 Proposal of a Classification for Sulcus Following Microlaryngoscopy with a Retrospective Study of the Results of a Laser-assisted Sulcus Release Surgery

**Nupur Kapoor Nerurkar, Zainab Nagree, Deeksha Agrawal**

Bombay Hospital Voice & Swallowing Center, Bombay Hospital & Medical Research Center, India

## Symposium 15

8:00 – 8:50 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### Neurolaryngology

Chair: Masamitsu Hyodo (Department of Otolaryngology, Kochi University, School of Medicine, Japan)

Moderator: Rui Imamura (Service of Bucopharyngology, University of São Paulo, Brazil)

#### SY15-1 Neurological basis of managing spasmodic dysphonia and vocal tremor

**Nupur Kapoor Nerurkar**

Bombay Hospital Voice and Swallowing Center, India

#### SY15-2 The expanding role of botulinum toxin in the larynx

**Daniel Novaković**

Faculty of Medicine and Health, University of Sydney, Australia

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**SY15-3 Adduction spasmodic dysphonia: a therapeutic scale**

**Marc Remacle**

Department of ORL - Head and Neck Surgery, Centre Hospitalier de Luxembourg, Belgium

**SY15-4 Longitudinal vocal outcomes and voice-related quality of life after selective bilateral laryngeal reinnervation: a case study**

**Kristiane Van Lierde**

Department of Speech-Language and Hearing, University Gent, Belgium

## Symposium 16

8:00 – 8:40 (JST), OCTOBER 14 (Fri.), 2022 Room 2 (ATAGO-NO-MA)

### Voice therapy

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**Chair: Yukio Katori** (Department of Otolaryngology & Head and Neck Surgery, Tohoku University Graduate School of Medicine, Japan)

**Moderators: Rita R. Patel** (Department of Speech, Language and Hearing Sciences, Indiana University / Otolaryngology Head & Neck Surgery, Indiana University School of Medicine, USA)

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**SY16-1 Respiratory retraining: COVID, dyspnea and MTD**

**Linda M Carroll**

Pediatric Otolaryngology, The Children's Hospital of Philadelphia, USA

**SY16-2 What is the evidence for active ingredients in voice therapy?**

**Catherine (Cate) Madill**

Speech Pathology/ Faculty of Medicine and Health, University of Sydney, Australia

**SY16-3 Laryngeal repositioning for functional dysphonia**

**Claudio F. Milstein**

Department of Otolaryngology Head & Neck Surgery, Head and Neck Institute, Cleveland Clinic, USA

## Symposium 17

8:50 – 9:40 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### RRP

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**Chair: Shigeyuki Murono** (Department of Otolaryngology, Fukushima Medical University, Japan)

**Moderator: Anastasios Hantzakos** (Otolaryngology - Head and Neck Surgery, Cleveland Clinic Abu Dhabi, UAE)

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**SY17-1 Updates on the treatment of RRP**

**Anastasios Hantzakos**

Otolaryngology - Head and Neck Surgery, Cleveland Clinic Abu Dhabi, UAE

**SY17-2 Caring for the carers: risk mitigation for clinicians treating RRP**

**David Vokes**

Department of Otolaryngology-Head & Neck Surgery, Auckland City Hospital, New Zealand

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**SY17-3    Intralesional cidofovir injection for recurrent respiratory papillomatosis**

**Shigeyuki Murono**

Department of Otolaryngology, Fukushima Medical University, Japan

**SY17-4    Coblation surgery for RRP**

**Hirotaaka Hara**

Department of Otolaryngology – Head & Neck Surgery, Kawasaki Medical School, Japan

**Symposium 18**

**8:40 – 9:40 (JST), OCTOBER 14 (Fri.), 2022    Room 2 (ATAGO-NO-MA)**

**LPR/Cough**

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**Chair: Akihiro Katada** (Department of Otolaryngology, Head and Neck Surgery, Asahikawa Medical University, Japan)

**Moderator: Amanda Hu** (Department of Otolaryngology – Head & Neck Surgery, University of British Columbia, Canada)

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**SY18-1    Exercise-Induced Laryngeal Obstruction: Diagnostic procedures and therapy**

**Lynn Elisabeth Biseroed**

Department of Otorhinolaryngology, Stavanger University Hospital, Norway

**SY18-2    Irritable larynx syndrome**

**Maria del Carmen Gorriz Gil**

Queen Elisabeth University Hospital, Spain/UK

**SY18-3    Chronic Cough and LPR**

**Yusuke Watanabe**

Tokyo Voice Center, International University of Health and Welfare, Japan

**SY18-4    Laryngeal Respiratory Disorders**

**Claudio F. Milstein**

Department of Otolaryngology Head & Neck Surgery, Head and Neck Institute, Cleveland Clinic, USA

**SY18-5    The application of combined osteopathic medicine and psychodynamic psychotherapy in diagnosis and treatment of globus**

**Jacob Lieberman**

The Medical Voice Centre Hamburg / Haemek Hospital Israel, Israel

## Symposium 19

9:40 – 10:30 (JST), OCTOBER 14 (Fri.), 2022 Room 2 (ATAGO-NO-MA)

### Neurolaryngology

Chair: **Kiminori Sato** (Department of Otolaryngology-Head and Neck Surgery, Kurume University School of Medicine, Japan)

Moderator: **Daniel Novakovic** (Faculty of Medicine and Health, University of Sydney, Australia)

**SY19-1 Clinical implication of QLEMG**

**Tuan-Jen Fang**

Department of Otolaryngology Head & Neck Surgery, Chang Gung Memorial Hospital, Taiwan

**SY19-2 Laryngeal pacing for reanimation of the paralyzed larynx**

**Akihiro Katada**

Department of Otolaryngology, Head and Neck Surgery, Asahikawa Medical University, Japan

**SY19-3 Basic research for functional regeneration after recurrent laryngeal nerve injury**

**Koji Araki**

Department of Otorhinolaryngology-Head & Neck Surgery, National Defence Medical College, Japan

**SY19-4 Work Productivity Impairment and Voice Disorders**

**Tanya Kim Meyer<sup>1</sup>, Amanda Hu<sup>2</sup>**

Otolaryngology Head and Neck Surgery, University of Washington, USA<sup>1</sup>, Division of Otolaryngology, Head and Neck Surgery, University of British Columbia, Canada<sup>2</sup>

## Symposium 20

10:30 – 11:20 (JST), OCTOBER 14 (Fri.), 2022 Room 2 (ATAGO-NO-MA)

### Injection laryngoplasty

Chair: **Hirohito Umeno** (Department of Otolaryngology-Head and Neck Surgery, Kurume University School of Medicine, Japan)

Moderator: **Marco Stacchini** (ENT, Bufalini Hospital, Italy)

**SY20-1 Laryngeal EMG guided hyaluronic acid vocal fold injection for unilateral vocal fold paralysis- Long term experiences**

**Chen-Chi Wang**

Department of Otolaryngology Head & Neck Surgery, Taichung Veterans General Hospital, Taiwan

**SY20-2 Novel technique of laryngeal electromyography-guided vocal fold injections of fillers for glottic insufficiency**

**Amanda Hu**

Department of Otolaryngology – Head & Neck Surgery, University of British Columbia, Canada

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- SY20-3 Multi-year effect of vocal fold injection of basic fibroblast growth factor for glottal insufficiency**  
**Hiroumi Matsuzaki**  
Department of Otolaryngology-Head and Neck Surgery, Nihon University School of Medicine, Japan
- SY20-4 Fiberoptic laryngeal laser surgery under local anesthesia**  
**Seung-Won Lee**  
Department of Otolaryngology-Head and Neck Surgery, SoonChunHyang University Hospital, ROK

## Symposium 21

13:20 – 14:10 (JST), OCTOBER 14 (Fri.), 2022 Room 2 (ATAGO-NO-MA)

### COVID-19

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**Chair: Kenichi Nibu** (Department of Otolaryngology-Head and Neck Surgery, Kobe University Graduate School of Medicine, Japan)

**Moderator: Karen Marie Kost** (McGill University, Canada)

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- SY21-1 Our laryngology experience during covid times**  
**Kumud Kumar Handa**  
Department of ENT & Head Neck Surgery, Medanta Medicity, India
- SY21-2 Laryngotracheal complications of COVID-19**  
**Frederik G Dikkers**  
Department of Otolaryngology - Head and Neck Surgery, Amsterdam University Medical Centers, Netherland
- SY21-3 How to keep your voice when you Zoom out: identifying factors that influence vocal habits during online video meetings**  
**Sapir Pinhas<sup>1,3</sup>, Shani Shteinberg<sup>2,4</sup>, Saja Assi<sup>2,4</sup>, Yaniv Hamzany<sup>2,4</sup>, Hagit Shoffel-Havakuk<sup>2,4</sup>**  
Department of Otolaryngology, Head and Neck Surgery, Kaplan Medical Center, Israel<sup>1</sup>, Department of Otolaryngology, Head and Neck Surgery, Rabin Medical Center, Israel<sup>2</sup>, Faculty of Medicine, Hebrew University of Jerusalem, Israel<sup>3</sup>, Sackler School of Medicine, Tel Aviv University, Israel<sup>4</sup>
- SY21-4 Reduction of subglottic granuloma after COVID-19 infection with intralesional corticosteroid**  
**Luciana F. Costa<sup>1</sup>, Domingos H. Tsuji<sup>1,2</sup>, Rui Imamura<sup>1,2</sup>, Camillus Magalhes<sup>1</sup>, Igor N. Batista<sup>3</sup>**  
Voice Center, Paulista Hospital of Otolaryngology, Brazil<sup>1</sup>, Department of Otolaryngology of the Hospital das Clinicas, University of So Paulo School of Medicine, Brazil<sup>2</sup>, Paulista Hospital of Otolaryngology, Brazil<sup>3</sup>

## Symposium 22

14:10 – 15:10 (JST), OCTOBER 14 (Fri.), 2022 Room 2 (ATAGO-NO-MA)

### TERM

Chair: Yoshihiko Kumai (Department of Otolaryngology Head and Neck Surgery, Nagasaki University, Japan)

Moderator: Shigeru Hirano (Department of Otolaryngology Head & Neck Surgery, Kyoto Prefectural University of Medicine, Japan)

**SY22-1 Reinke's edema – The molecular perspective**

**Markus Gugatschka**

Medicak university Graz, Austria

**SY22-2 Vocal fold tissue engineering**

**Seong Keun Kwon**

Seoul National University Hospital, ROK

**SY22-3 tissue engineering, vocal fold biology, microbiome, laryngeal development**

**Susan L Thibeault**

University of Wisconsin school of Medicine and Public health, USA

**SY22-4 Turnover and remodeling within laryngeal tissues**

**Nathan Welham**

Department of Surgery, Division of Otolaryngology-Head & Neck Surgery, University of Wisconsin-Madison, USA

**SY22-5 The Effects of Amniotic Membrane Transplantation on Vocal Fold Regeneration**

**Machiko Ogawa<sup>1)</sup>, Shigeyuki Mukudai<sup>2)</sup>, Yoichiro Sugiyama<sup>2)</sup>, Tomokazu Yoshizaki<sup>1)</sup>, Shigeru Hirano<sup>2)</sup>**

Department of Otolaryngology Head and Neck Surgery, Kanazawa University Hospital, Japan<sup>1)</sup>, Department of Otolaryngology Head and Neck Surgery, Kyoto Prefectural University of Medicine, Japan<sup>2)</sup>

## Symposium 23

15:10 – 16:30 (JST), OCTOBER 14 (Fri.), 2022 Room 2 (ATAGO-NO-MA)

### Cancer

Chair: Hidenori Inohara (Department of Otolaryngology-Head and Neck Surgery, Osaka University Graduate School of Medicine, Japan)

Moderator: Anastasios Hantzakos (Otolaryngology - Head and Neck Surgery, Cleveland Clinic Abu Dhabi, UAE)

**SY23-1 Transoral laser surgery for early laryngeal cancer**

**Kumud Kumar Handa**

Department of ENT & Head Neck Surgery, Medanta Medicity, India

**SY23-2 ELS classification for transoral partial laryngectomies : 20 years later**

**Marc Remacle**

Department of ORL - Head and Neck Surgery, Centre Hospitalier de Luxembourg, Belgium

- SY23-3 Premalignant Lesions of the Vocal Folds – 30 years in Specialized Service**  
**Jeferson Sampaio D'Avila**  
Otorinolaryngology, ABORL-CCF, Brazil
- SY23-4 Management of Laryngeal dysplasias**  
**Ricardo Serrano**  
Department of Otorhinolaryngology, Austral University Hospital, Argentine
- SY23-5 Association of chronic inflammation with dysplasia in larynx**  
**Teemu J. Kinnari**  
Department of Otorhinolaryngology – Head and Neck Surgery, Helsinki University Hospital Hospital, Finland
- SY23-6 Voice characteristics with phonatory valves compared with voice characteristics after Open Partial Laryngectomies type II or III**  
**Marco Stacchini**  
ENT, Bufalini Hospital, Italy

## Symposium 24

15:50 – 16:40 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### Aging voice

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**Chair: Hirotaka Hara** (Department of Otolaryngology – Head & Neck Surgery, Kawasaki Medical School, Japan)

**Moderator: Claudio F. Milstein** (Department of Otolaryngology Head & Neck Surgery, Head and Neck Institute, Cleveland Clinic, USA)

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- SY24-1 Physiologic effects of voice therapy for vocal fold atrophy: EMG study**  
**Mami Kaneko**  
Department of Otolaryngology Head & Neck Surgery, Kyoto Prefectural University of Medicine, Japan
- SY24-2 Vocal Rehabilitation on the aging patients– problems and solutions**  
**Mara Behlau**  
SLP, CEV-UNIFESP-Insper, Brazil
- SY24-3 The aging voice**  
**Karen Marie Kost**  
McGill University, Canada
- SY24-4 Etiology of dysphonia in treatment-seeking older individuals**  
**Rui Imamura, Eduarda Nilo De Magaldi, Clayson Alan Dos Santos, Mariana Neri, Domingos Hiroshi Tsuji**  
Department of Otolaryngology, University of Sao Paulo - School of Medicine, Brazil

## Panel Discussion 1

10:50 – 11:50 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Difficult case

**Moderator: Seth/Hammond Dailey** (Otolaryngology – Head and Neck Surgery, University of Wisconsin School of Medicine and Public Health / UW Health, USA)

**Yo Kishimoto**

Department of Otolaryngology-Head and Neck Surgery, Graduate School of Medicine, Kyoto University, Japan

**Lance Maron**

The Voice & Swallowing Centre Netcare Parklane Hospital, University of The Witwatersrand, South Africa

**Lynn Elisabeth Biserøed**

Department of Otorhinolaryngology, Stavanger University Hospital, Norway

**Ying-Ta Lai**

Department of Otolaryngology, Shuang Ho Hospital, Taipei Medical University, Taiwan

## Panel Discussion 2

14:20 – 15:20 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Singer

**Moderator: Robert Sataloff** (Department of Otolaryngology – Head & Neck Surgery, Drexel University College of Medicine, USA)

**Peak Woo**

Department of Otolaryngology Head and Neck Surgery, Icahn School of Medicine at Mount Sinai, USA

**Debra Jean Phyland**

Monash University, Australia

**Michael S. Benninger**

Department of Otolaryngology-Head and Neck Surgery, Cleveland Clinic Lerner College of Medicine Head and Neck Institute, The Cleveland Clinic, USA

**Abdul Latif H Hamdan**

Otolaryngology, Head and neck Surgery, Laryngology, American University of Beirut Medical Center, Lebanon

## Panel Discussion 3

10:40 – 11:40 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### Phonosurgery vs Phonotherapy

**Moderator: Debra Jean Phyland** (Monash University, Australia)

**Kristiane Van Lierde**

Department of Speech-Language and Hearing, University Ghent, Belgium



**Rita R. Patel**

Department of Speech, Language and Hearing Sciences, Indiana University / Otolaryngology  
Head & Neck Surgery, Indiana University School of Medicine, USA

**Mami Kaneko**

Department of Otolaryngology Head & Neck Surgery, Kyoto Prefectural University of  
Medicine, Japan

**Catherine (Cate) Madill**

Speech Pathology/Faculty of Medicine and Health, University of Sydney, Australia

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## Panel Discussion 4

14:50 – 15:50 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### Difficult airways and difficult exposures

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**Moderator: Michael Benninger** (Department of Otolaryngology-Head and Neck Surgery, Cleveland Clinic  
Lerner College of Medicine Head and Neck Institute, The Cleveland Clinic,  
USA)

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**Dinesh Khatri Chhetri**

Department of Head and Neck Surgery, University of California, USA

**Karen Marie Kost**

McGill University, Canada

**Daniel Novakovic**

Faculty of Medicine and Health, University of Sydney, Australia

**Charanjit Bahniwal**

Anesthesiology, Akron General Cleveland Clinic, USA

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## Luncheon Seminar 1

12:05 – 13:05 (JST), OCTOBER 13 (Thu.), 2022 Room 1 (COSMOS HALL)

### Oxidative stress on the disorders of vocal cords, neck and head

**Sponsor: TIMA Tokyo Inc.**

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**Chair: Toshikazu Yoshikawa** (Louis Pasteur Center for Medical Research, Japan)

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**Haruhiko Inufusa**

Gifu University Antioxidant Laboratory, Japan

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## Luncheon Seminar 2

12:05 – 13:05 (JST), OCTOBER 13 (Thu.), 2022 Room 2 (ATAGO-NO-MA)

### Functional evaluation for voice and swallowing disorders —role of portable stroboscopy—

Sponsor: Meilleur Co., Ltd.

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Chair: **Toshiro Umezaki** (Department of Speech and Hearing Sciences, International University of Health and Welfare, Voice and Swallowing Center, Fukuoka Sanno Hospital, Japan)

**Yoichiro Sugiyama**

Department of Otolaryngology Head & Neck Surgery, Kyoto Prefectural University of Medicine, Japan

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## Luncheon Seminar 3

12:05 – 13:05 (JST), OCTOBER 13 (Thu.), 2022 Room 3 (HIE-NO-MA)

### New Treatment for Spasmodic Dysphonia in Japan -The Titanium Bridge-

Sponsor: Nobelpharma Co., Ltd.

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Chair: **Masahiro Tanabe** (Komatsu Hospital, Osaka, Isshiki Memorial Voice Center, Kyoto, Japan)

**Tetsuji Sanuki**

Department of Otolaryngology-Head & Neck Surgery, Nagoya City University Graduate School of Medical Sciences, Japan

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## Luncheon Seminar 4

12:05 – 13:05 (JST), OCTOBER 14 (Fri.), 2022 Room 1 (COSMOS HALL)

### In office and transoral surgery of the aerodigestive tract with blue laser (TruBlue®), expanding therapeutic alternatives

Sponsor: A.R.C. Laser GmbH

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Chair: **Markus Maria Hess** (Medical Voice Center, University Medical Center Hamburg-Eppendorf, Germany)

**Guillermo Campos**

Otolaryngology Department, Fundación Santa Fe University Hospital, Columbia

## Free Paper 1

9:00 – 10:00 (JST), OCTOBER 13 (Thu.), 2022 Room 3 (HIE-NO-MA)

Chair: Toshiyuki Kusuyama (Tokyo Voice Clinic, Japan)

- FP1-1 Deep learning of voice analysis for vocal cords pathologies diagnosis: A systematic review**  
**Idit Tessler<sup>1,2)</sup>, Adi Primov<sup>1)</sup>, Nir Livneh<sup>1)</sup>, Eyal Zimlichman<sup>2)</sup>, Eran E Alon<sup>1)</sup>, Eyal Klung<sup>2,3)</sup>**  
Department of Otolaryngology Head and Neck Surgery, Sheba Medical Center, Tel Hashomer, Israel<sup>1)</sup>, ARC, Sheba Medical Center, Israel<sup>2)</sup>, Department of Diagnostic Imaging, Sheba Medical Center, Tel Hashomer, Israel<sup>3)</sup>
- FP1-2 A study of cases of hypofunctional dysphonia**  
**Takao Goto<sup>1)</sup>, Akihito Yamauchi<sup>1)</sup>, Rumi Ueha<sup>2)</sup>, Mamiko Otsuka<sup>1)</sup>, Tatsuya Yamasoba<sup>1)</sup>**  
Department of Otolaryngology, head and neck surgery, The university of Tokyo Hospital, Japan<sup>1)</sup>, Swallowing Center, The university of Tokyo Hospital, Japan<sup>2)</sup>
- FP1-3 The Ratio of the Power of Harmonics to That of the Fundamental Wave As the measurement index of the Voice Timbre**  
**Shintaro Fujimura<sup>1)</sup>, Tsuyoshi Kojima<sup>2)</sup>, Koichi Omori<sup>1)</sup>**  
Department of Otolaryngology-Head and Neck Surgery, Graduate School of Medicine, Kyoto University, Japan<sup>1)</sup>, Department of Otolaryngology, Tenri Hospital, Japan<sup>2)</sup>
- FP1-4 Do-It-Yourself in laryngology low-cost stroboscopy**  
**Isaac Shochat, Konstantin Charnyk, Tali Teitelbaum, Raphael Feinmesser, Itzhak Braverman**  
Department of Otolaryngology, Hillel Yaffe Medical Center, Israel

## Free Paper 2

10:00 – 11:00 (JST), OCTOBER 13 (Thu.), 2022 Room 3 (HIE-NO-MA)

Chair: Yusuke Watanabe (Tokyo Voice Center, International University of Health and Welfare, Japan)

- FP2-1 Usefulness of Functional Laryngeal Ultrasonography Utilizing Low Ossification Area Scanning Technique**  
**Tomohiro Mori<sup>1)</sup>, Chikako Kunieda<sup>2)</sup>, Fumiaki Nin<sup>3)</sup>, Takenori Ogawa<sup>4)</sup>, Yusuke Watanabe<sup>5)</sup>**  
Department of Radiology, Hashima City Hospital, Japan<sup>1)</sup>, Department of Otolaryngology, Hashima City Hospital, Japan<sup>2)</sup>, Department of Physiology, Gifu University Graduate School of Medicine, Japan<sup>3)</sup>, Department of Otolaryngology Head and Neck Surgery, Gifu University Graduate School of Medicine, Japan<sup>4)</sup>, Tokyo Voice Center, International University of Health and Welfare, Japan<sup>5)</sup>
- FP2-2 Functional laryngeal ultrasonography for the assessment of vocal cord paralysis**  
**Chikako Kunieda<sup>1)</sup>, Fumiaki Nin<sup>2)</sup>, Tomohiro Mori<sup>3)</sup>, Takenori Ogawa<sup>4)</sup>, Yusuke Watanabe<sup>5)</sup>**  
Department of Otolaryngology, Hashima City Hospital, Japan<sup>1)</sup>, Department of Physiology, Gifu University Graduate School of Medicine, Japan<sup>2)</sup>, Department of Radiology, Hashima City Hospital, Japan<sup>3)</sup>, Department of Otolaryngology Head and Neck Surgery, Gifu University Graduate School of Medicine, Japan<sup>4)</sup>, Tokyo Voice Center, International University of Health and Welfare, Japan<sup>5)</sup>

- FP2-3 The Incidence and Implication of H. Pylori Infection in Reinke's Edema**  
**Karuna Dewan, Miranda Duhon**  
Otolaryngology, Louisiana State University Health Science Center, USA
- FP2-4 Reinke's Edema Management and Voice Outcomes**  
**Karuna Dewan<sup>1)</sup>, Dinesh Chhetri<sup>2)</sup>, Henry Hoffman<sup>3)</sup>**  
Otolaryngology, Louisiana State University Health Science Center, USA<sup>1)</sup>, Otolaryngology, UCLA, USA<sup>2)</sup>, Otolaryngology, University of Iowa Hospitals and Clinics, USA<sup>3)</sup>
- FP2-5 Voice treatment in English for a non-native English speaker with Muscle Tension Dysphonia: A case report.**  
**Nobuko Harada<sup>1)</sup>, Keiko Maekawa<sup>2)</sup>, Atsushi Suehiro<sup>1,2)</sup>, Masako Fujii-Kurachi<sup>3)</sup>, Koichi Omori<sup>1)</sup>**  
Department of Otolaryngology Head and Neck Surgery, Graduate School of Medicine, Kyoto University, Japan<sup>1)</sup>, Department of Otolaryngology, Kobe City Medical Center General Hospital, Japan<sup>2)</sup>, Department of Speech and Hearing Sciences, School of Health Sciences at Narita, International University of Health and Welfare, Japan<sup>3)</sup>
- FP2-6 The development of a vocal fold microfluidic device to assess the impact of air pollution on vocal health**  
**Peter T. Coburn<sup>1)</sup>, Vlasta Lungova<sup>2)</sup>, Xinyiu Liu<sup>3)</sup>, Susan L. Thibeault<sup>2)</sup>, Nicole Y. K. Li-Jessen<sup>1,4,5)</sup>**  
School of Communication Sciences and Disorders, McGill University, Canada<sup>1)</sup>, Division of Otolaryngology-Head and Neck Surgery, University of Wisconsin-Madison, USA<sup>2)</sup>, Department of Mechanical & Industrial Engineering, University of Toronto, Canada<sup>3)</sup>, Department of Otolaryngology Head and Neck Surgery, McGill University, Canada<sup>4)</sup>, Department of Biomedical Engineering, McGill University, Canada<sup>5)</sup>

### Free Paper 3

11:00 – 12:00 (JST), OCTOBER 13 (Thu.), 2022 Room 3 (HIE-NO-MA)

Chair: James Phillip Thomas (Laryngology, Voicedoctor.net, USA)

- FP3-1 Improved swallowing functions in patients with unilateral vocal fold paralysis after arytenoid adduction surgery**  
**Kenichi Watanabe<sup>1,2)</sup>, Kazutaka Kashima<sup>2)</sup>, Takeshi Sato<sup>2)</sup>, Tomomi Machida<sup>3,4)</sup>, Yukio Katori<sup>2)</sup>**  
Department of Otolaryngology, Tohoku Rosai Hospital, Japan<sup>1)</sup>, Department of Otolaryngology, Head and Neck Surgery, Tohoku University Graduate School of Medicine, Japan<sup>2)</sup>, Department of Psychosomatic Medicine, Tohoku University Graduate School of Medicine, Japan<sup>3)</sup>, Department of Psychosomatic Medicine, Tohoku Rosai Hospital, Japan<sup>4)</sup>
- FP3-2 Three cases of nasopharyngeal closure insufficiency presenting the disassociation between articulation and swallowing function**  
**Sumie Takashima<sup>1,2,3)</sup>, Yoshihiko Kumai<sup>2)</sup>, Waku Nakasone<sup>1,3,4)</sup>, Gouta Tuda<sup>1,3)</sup>**  
Department of Otolaryngology, Seirei Sakura Citizen Hospital, Japan<sup>1)</sup>, Department of Otolaryngology, Head and neck surgery, Nagasaki University Hospital, Japan<sup>2)</sup>, Swallowing Center, Seirei Sakura Citizen Hospital, Japan<sup>3)</sup>, Department of Otolaryngology, Head and neck surgery, Ryuky University Hospital, Japan<sup>4)</sup>

- FP3-3 Abnormal Esophageal Motility in Patients with Inability to Belch and Response to In-office Botox treatment**  
**Jennifer Anderson**  
Department of Otolaryngology-HNS, St Michaels Hospital, University of Toronto, Canada
- FP3-4 FAT VOCAL FOLD AUGMENTATION IN PRESBYPHONIA**  
**Santa Večerina Volić**  
ENT surgeon and phoniatrician, Medical School Univeristy of Zagreb, Croatia, Center for Expert Medicine, Croatia
- FP3-5 Educational support through the use of VR head-mounted displays to advise on laryngeal surgery using 3D surgical videos**  
**Hideyuki Kataoka, Takahiro Fukuhara, Tsuyoshi Morisaki, Kenkichi Taira, Kazunori Fujiwara**  
Otolaryngology, Head and Neck Surgery, Tottori University, Japan
- FP3-6 Effect of type 1 thyroplasty on adductor branch paralysis of the recurrent laryngeal nerve (AdBP)**  
**Leo Nishikawa<sup>1)</sup>, Ryoji Tokashiki<sup>2)</sup>**  
Kousei cyuuou Hospital<sup>1)</sup>, Shinjyuku voice clinic<sup>2)</sup>

## Free Paper 4

13:20 – 14:20 (JST), OCTOBER 13 (Thu.), 2022 Room 3 (HIE-NO-MA)

Chair: David Vokes (Department of Otolaryngology-Head & Neck Surgery, Auckland City Hospital, New Zealand)

- FP4-1 Outcomes of Autologous buccal Fat Injection Laryngoplasty in Unilateral Vocal Cord Paralysis**  
**Hiroshi Hosono, Yutomo Seino, Akari Kimura, Taku Yamashita**  
Department of Otolaryngology, Kitasato University Hospital, Japan
- FP4-2 Laryngeal granuloma: Botulinum toxin beats biopsy**  
**Winnie Yeung<sup>1)</sup>, Avital Fellner<sup>1,2)</sup>, Duy Duong Nguyen<sup>1,3)</sup>, Thomas Stewart<sup>4)</sup>, Daniel Novakovic<sup>1,5)</sup>**  
Voice Research Laboratory, Faculty of Medicine, University of Sydney, Australia<sup>1)</sup>, Department of Otolaryngology-Head and Neck Surgery, Shamir (Assaf Harofeh) Medical Center, Israel<sup>2)</sup>, National Hospital of Otorhinolaryngology, Department of Speech and Hearing, Viet Nam<sup>3)</sup>, Sydney Voice and Swallowing Clinic, Australia<sup>4)</sup>, Department of Otolaryngology, The Canterbury Hospital, Australia<sup>5)</sup>
- FP4-3 Long-term efficacy of Type 2 thyroplasty performed for adductor spasmodic dysphonia**  
**Naoko Matsubara<sup>1)</sup>, Toshiro Umezaki<sup>2)</sup>, Takashi Inoguchi<sup>2)</sup>, Ryouta Yamamoto<sup>2)</sup>, Motohiro Sawatsubashi<sup>2)</sup>**  
Department of Otolaryngology, Fukuoka Central Hospital, Japan<sup>1)</sup>, Department of Otolaryngology, Fukuoka Sanno Hospital, Japan<sup>2)</sup>
- FP4-5 VOISS score as a predictor of peri-procedural pain in office-based laryngeal procedures.**  
**Mostafa Alwan, Paul Paddle, Debra Phyland**  
Department of Otolaryngology, Monash Health, Australia

**FP4-6 Pre-procedural paracetamol reduces pain scores in patients undergoing office-based laryngeal procedures – a controlled before-after study.**

**Mostafa Alwan, Paul Paddle, Travis Leahy**

Department of Otolaryngology, Monash Health, Australia

**Free Paper 5**

**14:20 – 15:20 (JST), OCTOBER 13 (Thu.), 2022 Room 3 (HIE-NO-MA)**

Chair: **Byung-Joo Lee** (Department of Otorhinolaryngology, Pusan National University Hospital, ROK)

**FP5-1 Transoral videolaryngoscopic vocal fold medialization with calcium phosphate cement for unilateral vocal cord palsy – Value of novel technique**

**Kosuke Uno, Koji Araki, Masayuki Tomifuji, Akihiro Shiotani**

Department of Otolaryngology, National Defense Medical College, Japan

**FP5-2 Long-term Outcome of Fat Injection Laryngoplasty for Unilateral Vocal Fold Paralysis with the Analysis of Preoperative Glottal Status**

**Takashi Kurita, Hirohito Umeno, Shun-ichi Chitose, Mioko Fukahori, Sachiyo Hamakawa**

Department of Otolaryngology-Head and Neck Surgery, Kurume University, Japan

**FP5-3 The short- and long-term efficacy of atelocollagen injection for patients with glottic insufficiency.**

**Kiyohito Hosokawa<sup>1,2,3)</sup>, Itsuki Kitayama<sup>1,2)</sup>, Maki Yamashita<sup>1,2)</sup>, Makoto Ogawa<sup>1,2)</sup>, Hidenori Inohara<sup>1)</sup>**

Department of Otorhinolaryngology, head and neck surgery, Osaka University Graduate School of Medicine, Japan<sup>1)</sup>, Department of Otorhinolaryngology, JCHO Osaka Hospital, Japan<sup>2)</sup>, Department of Otorhinolaryngology, Osaka Police Hospital, Japan<sup>3)</sup>

**FP5-4 Surgical effects of type-I thyroplasty and fat injection laryngoplasty on voice recovery**

**Akihito Hasukawa<sup>1,2)</sup>, Ryuichi Mochizuki<sup>1,2,3)</sup>, Hiramori Sakamoto<sup>3)</sup>, Akira Shibano<sup>1)</sup>, Tadashi Kitahara<sup>2)</sup>**

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**FP5-5 Possible effectiveness of botulinum toxin injection into the posterior cricoarytenoid muscle in suspected hypo muscle tension dysphonia patients ~a case presentation~**

**Ujimoto Konomi, Taisuke Sotome, Megumi Sakaki**

Futakotamagawa Otolaryngology, Voice and Dizziness Clinic, Japan

**FP5-6 Laryngeal microsurgery without intubation for posterior glottic and subglottic lesion**

**Hyunseong Kim, Seong Keun Kwon**

Department of Otorhinolaryngology-Head and Neck Surgery, Seoul National University Hospital, Republic of Korea

**Free Paper 6**

**11:20 – 11:50 (JST), OCTOBER 14 (Fri.), 2022 Room 2 (ATAGO-NO-MA)**

**Chair: Yo Kishimoto** (Department of Otolaryngology-Head and Neck Surgery, Graduate School of Medicine, Kyoto University, Japan)

**FP6-1 The importance of choosing margins**

**Tommy Jacob<sup>1)</sup>, Narin Nard Carmel Neiderman<sup>1)</sup>, Yotam Lior<sup>2)</sup>, Leonore Trejo<sup>3)</sup>, Yael Oestreicher-Kedem<sup>1)</sup>**

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**FP6-2 Pediatric airway surgery under high-flow nasal oxygen with spontaneous respiration: A five-year experience**

**Jeongyeon Ji, Hyunseong Kim, Seong Keun Kwon**

Department of Otorhinolaryngology-Head and Neck Surgery, Seoul National University Hospital, Republic of Korea

**FP6-3 FROM THE OPERATION ROOM TO THE OFFICE: 10-YEARS' EXPERIENCE WITH IN-OFFICE KTP LASER TREATMENT FOR BENIGN TO MALIGNANT LARYNGEAL PATHOLOGIES**

**Idit Tessler<sup>1)</sup>, Sapir Pinchas<sup>2)</sup>, Oded Cohen<sup>3)</sup>, Hagit Shoffel-Havakuk<sup>4)</sup>, Yonatan Lahav<sup>2)</sup>**

Department of Otolaryngology Head and Neck Surgery, Sheba Medical Center, Israel<sup>1)</sup>, Department of Otolaryngology Head and Neck Surgery, Kaplan Medical Center, Israel<sup>2)</sup>, Department of Otolaryngology Head and Neck Surgery, Yale University School of Medicine, United States of America<sup>3)</sup>, Department of Otolaryngology Head and Neck Surgery, Rabin Medical Center, Petah Tikva, Israel<sup>4)</sup>

**Poster**

**OCTOBER 13 (Thu.), 2022 (TAKE-NO-MA/RAN-NO-MA)**

**P-2 Predominant Vertical Location of Benign Vocal Fold Lesions by Sex and Music Genre: Implication for Pathogenesis**

**Mayu Hirotsaki<sup>1,2)</sup>, Daigo Komazawa<sup>1,3)</sup>, Takeharu Kanazawa<sup>4)</sup>, Yukio Katori<sup>2)</sup>, Yusuke Watanabe<sup>1)</sup>**

International University of Health and Welfare Tokyo Voice Center, Sanno Medical Center, Japan<sup>1)</sup>, Department of Otolaryngology-Head and Neck Surgery, Tohoku University Graduate School of Medicine, Japan<sup>2)</sup>, AKASAKA Voice Health Center, Japan<sup>3)</sup>, Department of Otolaryngology-Head and Neck Surgery, Jichi Medical University, Japan<sup>4)</sup>

**P-3 Voice disorder of “raiba-” (live streamers) in Japan.**

**Masaki Hatano<sup>1)</sup>, Reo Horie<sup>1)</sup>, Mayu Hirotsaki<sup>1)</sup>, Yukio Katori<sup>2)</sup>, Yusuke Watanabe<sup>1)</sup>**

Tokyo Voice center, Sannou Medical Center, Japan<sup>1)</sup>, Department of otolaryngology, Tohoku University Hospital, Japan<sup>2)</sup>

- P-4**      **Vocal Fold Microlesions in Professional Singers: Indications for Phonosurgery Considering the Verticality of Lesions**  
**Daigo Komazawa<sup>1,2)</sup>, Mayu Hirosaki<sup>2)</sup>, Tomohiro Hasegawa<sup>2)</sup>, Yusuke Watanabe<sup>2)</sup>**  
Otolaryngology, AKASAKA Voice Health Center, Japan<sup>1)</sup>, Tokyo Voice Center, International University of Health and Welfare, Japan<sup>2)</sup>
- P-5**      **A study of 8 cases of laryngeal amyloidosis**  
**Reo Horie<sup>1)</sup>, Daigo Komazawa<sup>2)</sup>, Izumi Koizuka<sup>3)</sup>, Manabu Komori<sup>3)</sup>, Yusuke Watanabe<sup>1)</sup>**  
Department of Otolaryngology, Sanno Medical Center, Japan<sup>1)</sup>, Department of Otolaryngology, Voice Clinic Akasaka Komazawa Otolaryngology, Japan<sup>2)</sup>, Department of Otolaryngology, St.Marianna University School of Medicine, Japan<sup>3)</sup>
- P-6**      **A Study of Eight Patients with Amyotrophic Lateral Sclerosis (ALS) Treated with Aspiration Prevention Surgery**  
**Hideharu Abe, Shinsuke Itou, Masayuki Ishida, Hideo Shojaku**  
Department of Otolaryngology, University of Toyama, Japan
- P-7**      **The effect of swallowing rehabilitation for the patients with dysphagia**  
**Kenji Okami<sup>1)</sup>, Nagisa Sugaya<sup>2)</sup>, Fumiyouki Goto<sup>1)</sup>, Yutomo Seino<sup>3)</sup>, Koichiro Nishiyama<sup>4)</sup>**  
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- P-8**      **Swallowing function in patients with severe COVID-19**  
**Rie Asayama, Masahiro Okada, Kaori Tanaka-Nishikubo, Naohito Hato**  
Department of Otolaryngology, Ehime University Hospital, Japan
- P-9**      **Symptoms and complications following intracordal basic fibroblast growth factor injection**  
**Tomohiro Hasegawa<sup>1)</sup>, Reo Horie<sup>1)</sup>, Mayu Hirosaki<sup>1)</sup>, Takeharu Kanazawa<sup>2)</sup>, Yusuke Watanabe<sup>1)</sup>**  
Tokyo Voice Center, International University of Health and Welfare, Japan<sup>1)</sup>, Department of Otolaryngology-Head and Neck Surgery, Jichi Medical University, Japan<sup>2)</sup>
- P-10**     **Effects of Noise on Deep Learning of quantifying pathological voice**  
**Tsuyoshi Kojima<sup>1)</sup>, Koki Hasebe<sup>2)</sup>, Shintaro Fujimura<sup>2)</sup>**  
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- P-11**     **A case of thyroid cartilage metastasis of lung adenocarcinoma**  
**Masashi Kuroki<sup>1)</sup>, Ryota Iinuma<sup>1,2)</sup>, Kenichi Mori<sup>1)</sup>, Chikako Kunieda<sup>1,2)</sup>, Takenori Ogawa<sup>1)</sup>**  
Department of Otolaryngology-Head and Neck Surgery, Gifu University Graduate School of Medicine, Japan<sup>1)</sup>, Department of Otolaryngology, Hashima City Hospital, Japan<sup>2)</sup>
- P-12**     **Postoperative brain activity changes in patients with unilateral vocal fold paralysis detected by functional magnetic resonance imaging**  
**Norimoto Kise, Asanori Kiyuna, Mikio Suzuki**  
Department of Otorhinolaryngology, University of the Ryukyus, Japan
-



- P-14**     **How computer vision system transfers surgeon thinking into AI thinking process to avoid iatrogenic dysphonia after thyroidectomy**  
**JingJie Wang<sup>1,2)</sup>, Chen-Chi Wang<sup>1,3)</sup>**  
Department of Otolaryngology-Head & Neck Surgery, Taichung Veterans General Hospital, Taiwan<sup>1)</sup>, Institute of Medicine, Chung Shan Medical University, Taiwan<sup>2)</sup>, School of Medicine, National Yang-Ming University, Taiwan<sup>3)</sup>
- P-15**     **Longitudinal findings of laryngeal electromyography (LEMG) in unilateral vocal fold paralysis patients receiving repeated LEMG guided injection laryngoplasty**  
**Tian-Yun Lin<sup>1)</sup>, Chen-Chi Wang<sup>1,2)</sup>**  
Department of Otolaryngology Head & Neck Surgery, Taichung Veterans General Hospital, Taiwan<sup>1)</sup>, School of Medicine, National Yang Ming Chiao Tung University, Taiwan<sup>2)</sup>
- P-16**     **Long-term results and safety of fibroblast growth factor injection for unilateral vocal fold paralysis**  
**Takeharu Kanazawa<sup>1)</sup>, Tomohiko Yamauchi<sup>1)</sup>, Tomohiro Hasegawa<sup>2)</sup>, Ujimoto Konomi<sup>2)</sup>, Yusuke Watanabe<sup>2)</sup>**  
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- P-17**     **4K 3D Exoscopic Surgery for Aspiration Prevention**  
**Masaya Uchida**  
Department of Otolaryngology, Kyoto Daini Red Cross Hospital, Japan
- P-18**     **Medical Experience of Speech Noise Occurring in the Nasopharyngeal Rosenmller Fossa**  
**Manami Kamitomai<sup>1,2)</sup>, Daigo Komazawa<sup>1,3)</sup>, Yusuke Watanabe<sup>1)</sup>**  
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- P-19**     **A review of laryngoplasty cases in our department**  
**Masaaki Higashino, Ryo Kawata**  
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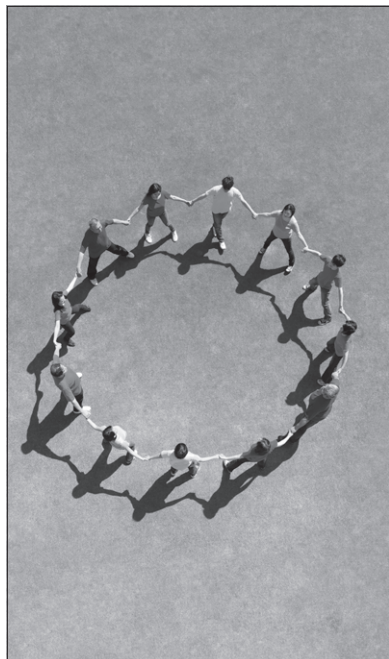
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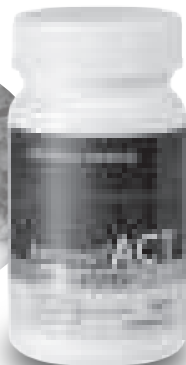
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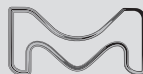
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※1) 治療目的等の処方薬により使用する可

※2) EGFR: Epidermal Growth Factor Receptor (上皮細胞増殖因子受容体)

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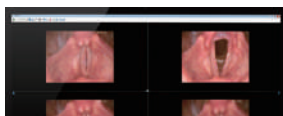
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