



**PROFERRED
PAPERS**

12:45 – 14:00

SPADOLINI PAVILION ROOM 2

EFFUSION

PROFERRED PAPERS PP01Chair: **Ashish Chandra**, UK
Marianne Engels, Germany

12:45-12:52

No. 014

Cytologists do it with cells - diagnostic cytopathology, essentials, advances and more!**Anna Patterson***UK NEQAS Cellular Pathology Technique, Cellular Pathology, Newcastle Upon Tyne, United Kingdom*

12:52-12:59

No. 015

Diagnostic cytopathology cell block preparation methods**Anna Patterson**, Helen Naylor*UK NEQAS Cellular Pathology Technique, Cellular Pathology, Newcastle Upon Tyne, United Kingdom*

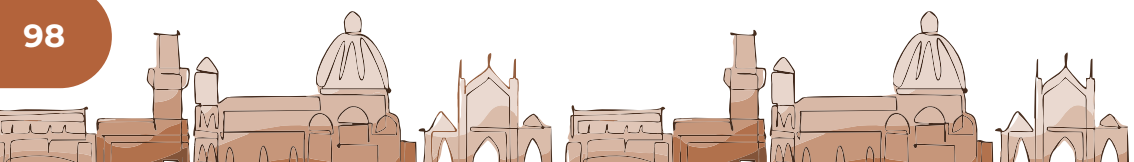
12:59-13:06

Nr. 032

Review: cell-in-cell phenomenon: cytological characteristics and key features**Masanao Saio**, Mizuha Oi, Moe Kameda, Mayuna Fukuzawa, Ryosuke Akuzawa, Rio Kaneko, Momoka Konno¹, Rio Shibamura, Sayaka Kobayashi, Yoshimi Nishijima*Gunma, University, Maebashi-city, Japan*

13:06-13:13

Nr. 034

'Rights and wrongs' of diagnostic cytopathology staining**Helen Naylor**, Anna Patterson*UK NEQAS Cellular Pathology Technique, Cellular*

13:13-13:20

Nr. 087

Role of cytology in early diagnosis of MSI adenocarcinoma in a young patient with lynch syndrome background: a case report**F. El Sissy¹**, R. Bourgoïn^{1,2}, R. Kaci¹, M. Wassef¹, H. Adle-Biassette¹, D. Cazals-Hatem³.¹Department of Pathology, Lariboisière Hospital, APHP, Université Paris-Cité, Paris, France.²Pathologie Bastille, Paris, France.³Department of Pathology, Beaujon Hospital, APHP, Université Paris-Cité, Paris, France.

13:20-13:27

Nr. 092

Unique presentation of metastatic malignant germ cell tumor diagnosed in pleural effusion cytology**Samer Khader**, Sigfred Lajara, Lakshmi Harinath

Department of Pathology, University of Pittsburgh, Pennsylvania, USA

13:27-13:34

Nr. 104

Multiplex immunocytology of fine-needle aspiration biopsies and effusions: initial findings**S. Miceska¹**, S.C. Bhakdi^{2,3}, V. Kloboves Prevodnik^{1,4}¹Dep. of Cytopathology, Institute of Oncology Ljubljana, Slovenia²X-ZELL Biotech Pte Ltd., Singapore 069535³Dep. of Pathobiology, Faculty of Science, Mahidol University Bangkok, Thailand⁴ Dep. of Pathology, University of Maribor, Slovenia

13:34-13:41

Nr. 134

Multiplexed effusion immunodiagnosics in routine cytopathology**S.C. Bhakdi^{1,2}**, D. Walch³, C.Fives¹, S. Grote¹, K.P. Hunfeld³, A. Battmann⁴¹X-ZELL Biotech, Singapore²Dep. of Pathobiology, Fac. of Science, Mahidol University Bangkok, Thailand³Depts. of Clinical Pathology & Laboratory Medicine, NW Medical Centre, Frankfurt M., Germany⁴Dep. of Anatomic Pathology, NW Medical Centre, Frankfurt M.

13:41-13:48

Nr. 157

Evaluating the impact of sample volume on cytological diagnosis of pleural effusion: a single-institution study using the international system for reporting serous fluid cytopathology**R. Meena¹, A. Nambirajan¹, D. Jain¹**¹*Department of Pathology, All India Institute of Medical Sciences, New Delhi*

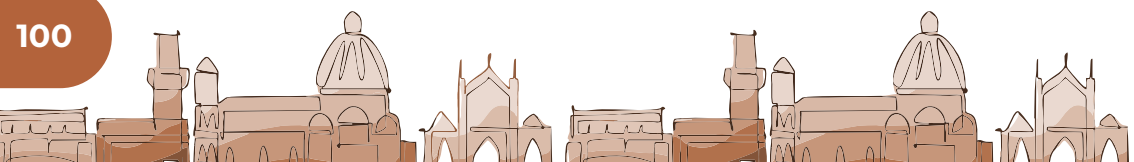
13:48-13:55

Nr. 201

The diagnosis of malignancies on pleural effusions processed by liquid-based cytology**P. Tralongo¹, T.M. Martorana², Q. Zhang¹, M. Franchina², G. Riganati², E.D. Rossi¹, V. Fiorentino², F. Cianfrini¹, A. Cancellieri¹, G.Fadda²**¹*Dept. Of Pathology and Cytology, Catholic University, Foundation "A. Gemelli" Hospital, Rome*²*Dept. Of Human Pathology of the Adulthood and of the Developing Age "G. Barresi", University of Messina (Italy)*

13:55-14:02

Nr. 217

From mystery to mastery: applying the TIS framework to pleural effusion cytology**J. Musayev¹, N. Orujova², E. Jumazada³, B. Abbasov¹, M. Baghirzade¹, K. Bakhshaliyeva², B. Onal⁴**¹*Baku Pathology Center, Baku, Azerbaijan*²*Unification of Forensic Medical Expertise and Pathological Anatomy, Baku, Azerbaijan*³*Department of Forensic Medical Expertise and Pathological Anatomy, Azerbaijan State Advanced Training Institute for Doctors, Baku, Azerbaijan*⁴*Acibadem HealthCare Group, Central Pathology Laboratory, Istanbul, Turkey*

14:00 – 15:45

SPADOLINI PAVILION ROOM 2

12²⁰²⁵
MAY
MONDAY

DIGITAL CITOLOGY

PROFERRED PAPERS PP02

Chair: **Pamela Michelow**, South Africa
Sule Canberk, Portugal

14:09-14:16

Nr. 016

Enhancing cytopathology workflow: deep learning models for pap smear image analysis

P. Sharma¹, A.K. Shaw², B.N. Subudhi²

¹Department of Pathology, All India Institute of Medical Sciences, Vijaypur, Jammu, India;

²Department of Computer Science and Electrical Engineering, Indian Institute of Technology Jammu, Jammu, India

14:16-14:23

Nr. 026

Cervical cancer screening using artificial intelligence in three counties of Vichang city, Hubei province

Xiaorong Sun¹, Baochuan Pang¹, Wei Zhang², Hua Li², Jian Wang²

¹Landing Artificial Intelligence Center for Pathological Diagnosis, Wuhan University, Wuhan, China

²Wuhan Landing Cloud Clinical Laboratory Co., Ltd, Wuhan, China

14:23-14:30

Nr. 028

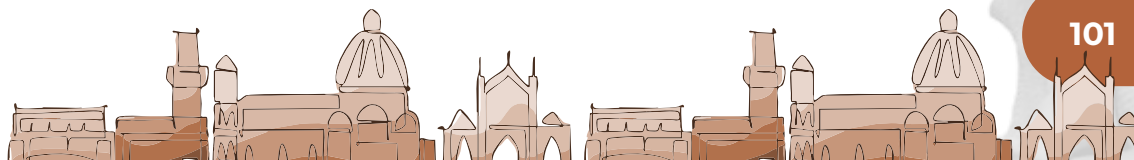
Epidemiology study of large scale cervical cancer screening in china using ai-assisted cytology

Jian Wang¹, Wei Zhang¹, Hua Li¹, Xiaorong Sun², Baochuan Pang², Jing Ma³

¹Wuhan Landing Cloud Clinical Laboratory Co., Ltd, Wuhan, China

²Landing Artificial Intelligence Center for Pathological Diagnosis, Wuhan University, Wuhan, China

³Tsinghua University Institute for Hospital Management, Beijing, China



14:30-14:37

Nr. 033

Participating in a digital diagnostic cytopathology interpretive proficiency testing (iEQA) scheme**Helen Naylor***UK NEQAS Cellular Pathology Technique, Cellular*

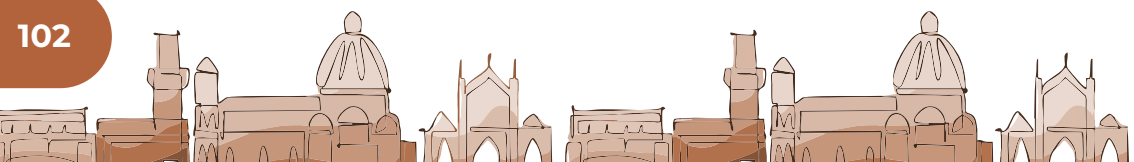
14:37-14:44

Nr. 042

Technical challenges encountered during the validation study with the genius digital diagnostic system in a tertiary level hospital system: patient safety and quality study**Lakshmi Harinath**, Jonee Matsko, Amy Colaizzi, Stephanie Wharton, Esther Elishaev, Samer Khader, Rohit Bhargava, Liron Pantanowitz, Chengquan Zhao*Department of Pathology, University of Pittsburgh, UPMC Magee Womens Hospital, Pittsburgh, PA, USA*

14:44-14:51

Nr. 057

National quality assurance program using digital cytopathology: a five-year experience by the Korean society for cytopathology**Yosep Chong**¹, Hyeong Ju Kwon², Soon Auck Hong³, Sung Soon Kim⁴, Bo-Sung Kim⁵, Younghee Choi⁶, Yoon Jung Choi⁷, Jung-Soo Pyo⁸, Moonsik Kim⁹, Soo Jin Jung¹⁰, Hun Soo Kim¹¹, Yong Chul Kim¹², Hoon Kyu Oh¹³, Seung-Sook Lee¹⁴*The Committee of Quality Improvement of the Korean Society for Cytopathology
Department of Pathology*¹*Department of Hospital Pathology, College of Medicine, The Catholic University of Korea, Seoul;*²*Department of Pathology, Yonsei University Wonju College of Medicine, Wonju Severance Christian Hospital, Wonju;*³*Department of Pathology, Chung-Ang University College of Medicine, Seoul;*⁴*Department of Pathology, Chonnam National University Medical School, Gwangju;*⁵*Department of Pathology, Green Cross Laboratories, Yongin;*⁶*Department of Pathology, Hallym University Dongtan Sacred Heart Hospital, Hwaseong;*⁷*Department of Pathology, Yonsei University College of Medicine, Yongin Severance Hospital, Yonsei University, College of Medicine, Yongin;*⁸*Department of Pathology, Eulji University Hospital,*

Eulji University School of Medicine, Seoul;

⁹*Department of Pathology, Kyungpook National University Chilgok Hospital, School of Medicine, Kyungpook National University, Daegu;*

¹⁰*Department of Pathology, Inje University Busan Paik Hospital, Busan;*

¹¹*Department of Pathology, Wonkwang University School of Medicine, Iksan;*

¹²*Department of Pathology, National Cancer Center, Ilсан;*

¹³ *Department of Pathology, Daegu Catholic University, Daegu;*

¹⁴ *Department of Pathology, Korea Institute of Radiological and Medical Sciences, Seoul, Korea*

14:51-14:58

Nr. 107

Development of Cytoacademy: a new web- and mobile-based e-learning platform in the post-pandemic era

Ran Hong¹, Yosep Chong², SeungWan Chae³, SeungSook Lee⁴, Gyungyub Gong⁵, and the Korean Society for Cytopathology e-learning Platform Development Team

¹*Department of Pathology, College of Medicine, Chosun University, Gwangju*

²*Department of Hospital Pathology, College of Medicine, The Catholic University of Korea, Seoul;* ³*Department of Pathology, Kangbuk Samsung Hospital, Sungkyunkwan University School of Medicine, Seoul, Korea*

⁴*Department of Pathology, Korea Institute of Radiological and Medical Sciences, Seoul*

⁵*Department of Pathology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea*

14:58-15:05

Nr. 128

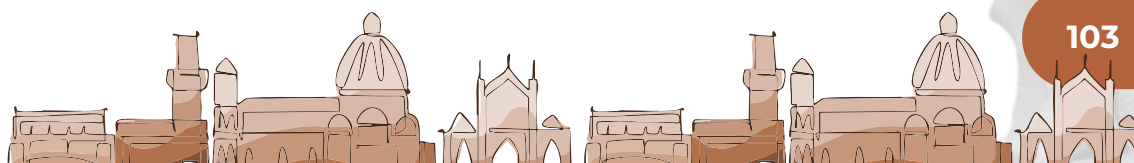
Advance in instant digital cytology characterization using AuNPs and immunofluorescence tools.

V. Morano¹, G. Maricchiolo², M. Cioce³, S. Stigliano², L. Frasca², M. Biffoni⁴, C. Di Gioia⁵, F.M. Di Matteo², L. Giacomelli⁴, A. Crescenzi⁵

¹*Endocrine Organs and Neuromuscular Pathology Unit, Fondazione Policlinico Universitario Campus Biomedico, Rome*

²*Operative Endoscopic Unit, Fondazione Policlinico Universitario Campus Biomedico, Rome*

³*Laboratory Molecular Medicine and Biotechnology, University Campus Biomedico of Rome, Italy* ⁴*Dept. Surgical Sciences and* ⁵*Dept. Radiological, Oncological, Pathological Sciences, Sapienza University of Rome, Italy*



15:05-15:12

Nr. 159

Does AI performance in thyroid cancer diagnosis differ between single-layer and multi-z-stacked imaging?**B.A. Crothers**, W.L. Yang, S.W. Hsu, C.H. Yeh, Y.S. Liu, M.Y. Lin, G.W. Shao, T.J. Liu*AlxMed, Inc., Clinical Research, Santa Clara, USA*

15:12-15:19

Nr. 160

AIxURO: enhancing diagnostic accuracy in bladder cancer detection with AI-assisted urine cytology**S. Lajara**¹, W.L. Yang², G.W. Shao², T.J. Liu², S.N. Khader¹¹ *Department of Pathology, University of Pittsburgh Medical Center, Pittsburgh, PA, USA ;*² *AlxMed, Inc., Santa Clara, CA, USA*

15:19-15:26

Nr. 178

miLab™ CER: AI-Driven digital cytology platform for automated cervical cancer screening**M. Kim**, D. Ham, S. Kim, J. Ryu, H.M. Hong*Noul Co., Ltd., Yongin, Republic of Korea*

15:26-15:33

Nr. 209

Utilizing ChatGPT to assign categories based on the milan system for reporting salivary gland cytopathology**S. M. Hosseini**

Department of Pathology, The University of Texas MD Anderson Cancer Center, Houston, TX, USA

15:33-15:40

Nr. 211

**Online remote rapid cytology evaluation
Tailored diagnostics for fine-needle aspiration biopsy.**

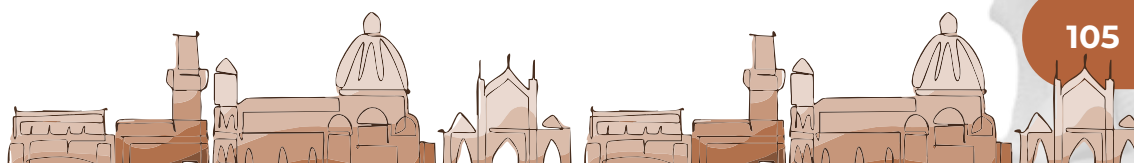
Hatice Elmas¹, Fatih Baybars Ergüven¹, Abdullah Fahri Şahin², Fahriye Secil Tecellioglu², Stefan Steurer¹, Birgit Hantzsch-Kuhn^{3,4}, Lutz Welker^{1,4}

¹Section Cytopathology, Institute of Pathology with the Sections Molecular Pathology and Cytopathology, University Medical Center, Hamburg Eppendorf, Germany.

²Department of Pathology, School of Medicine, Malatya Turgut Ozal University, Malatya, Türkiye.

³LungenClinic Grosshansdorf, Grosshansdorf; Department of Medicine, Christian Albrechts University Kiel, Kiel, Germany.

⁴Airway Research Center North (ARCN), German Center for Lung Research (DZL), Gies-sen, Germany



16:15 – 17:15

SPADOLINI PAVILION ROOM 2

HEAD & NECK, INFECTIOUS DISEASES

PROFERRED PAPERS PP03Chair: **Zubair Baloch**, USA**Immacolata Cozzolino**, Italy

16:15-16:22

Nr. 053

Utility of cytomorphology in distinguishing benign oncocytic salivary neoplasms from “oncocytoid” carcinomas: a multi-observer assessment**Richard Cantley**, Heather Chen-Yost, Madelin Lew*University of Michigan, Pathology, Ann Arbor, United States*

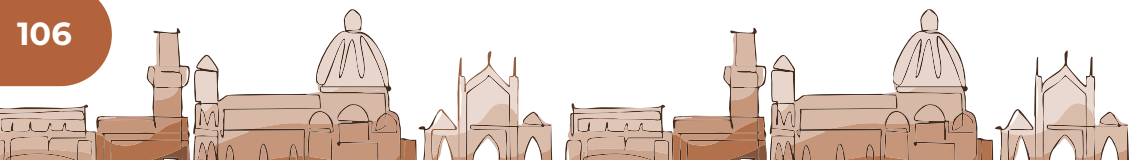
16:22-16:29

Nr. 079

HPV genotyping and cytology co-testing for anal cancer screening: HRA/histological assessment and evaluation of the “HPV burden” as a new potential parameter associated with AIN lesions**Pompeo G.**¹, Giachini C.¹, Cannistrà S.¹, Paganini I.¹, Pacella S.¹, Galastri S.¹, Giunti S.¹, Pisano L.², Sani C.¹, Bisanzì S.¹¹*Regional Laboratory of Cancer Prevention, ISPRO, Florence, Italy*²*Section of Dermatology, Health Sciences Department, University of Florence, Florence, Italy*

16:29-16:36

Nr. 105

Recurrent acinic cell carcinoma with high-grade transformation: a rare variant with increased risk of aggressive behavior**Samer Khader**¹, Asma Arshia², Robert Peel¹, Karen Schoedel¹¹*University of Pittsburg, Department of Pathology, Pittsburg, United States*²*University of Kentucky, Department of Pathology and Laboratory Medicine, Lexington, United States*

16:36-16:43

Nr. 116

Fine-needle biopsy device and method of operation**Adam Kowalewski^{1,2}, Dawid Marciniak³**¹Center of Medical Sciences, University of Science and Technology, Bydgoszcz, Poland;²Department of Tumor Pathology, Oncology Center Prof. Franciszek Łukaszczyk Memorial Hospital, Bydgoszcz, Poland;³Department of Manufacturing Techniques, Faculty of Mechanical Engineering, Bydgoszcz University of Science and Technology, Bydgoszcz, Poland

16:43-16:50

Nr. 139

Utility of fine needle aspiration in molecular diagnostics of tuberculous lymphadenitis.**U. Khurana¹, R. Rastogi¹, A.K. Maurya², A.K. Khurana³, V. Walke¹, A.Tiwari²**¹Deptt of Pathology and Lab Medicine, AIIMS Bhopal, Bhopal, Madhya Pradesh, India²Deptt of Microbiology, AIIMS Bhopal, Bhopal, Madhya Pradesh, India³Deptt of Pulmonary Medicine, AIIMS Bhopal, Bhopal, Madhya Pradesh, India

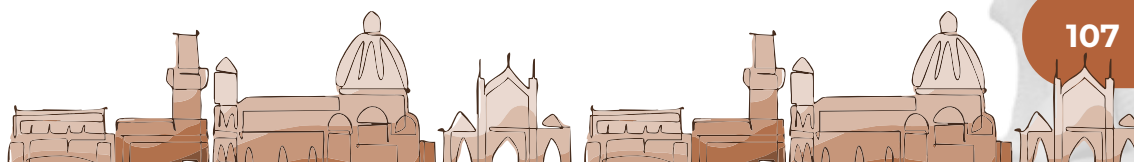
16:50-16:57

Nr. 146

Enhancing the diagnostic accuracy of cervical tuberculous lymphadenitis: largest single institution experience on fine needle aspiration combined with tuberculosis PCR**Sardana N.k., Sardana R., Sardana R.**

SARDANA LABS, Jalandhar, Punjab, India

Mass General Brigham Hospitals, Pathology department, Boston, USA



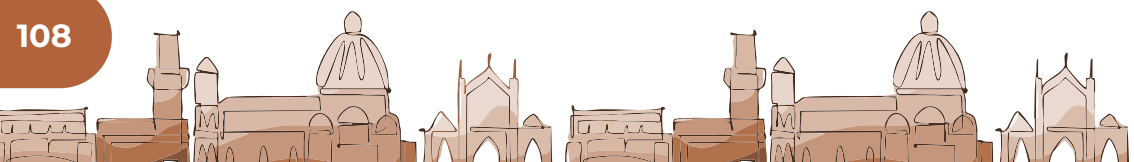
16:57-17:04

Nr. 158

**Oral cytology in Japan:
novel diagnostic criteria and strategies****M. Nagayama**¹, A. Ihara², Y. Tanaka³, M. Sasaki⁴, T. Ochiai¹,
M. Ehara¹, Y. Miyamoto¹, H. Suwa⁵, K. Kawarada⁶¹Department of Oral Pathology Asahi University School of Dentistry, Mizuho, Japan²Ihara Machinaka Dental Clinic, Numazu, Japan³Department of Surgical Pathology, Tokyo Dental College, Ichikawa General Hospital,
Ichikawa, Japan⁴Yuwakai Med. Corp. Dental Clinic, Rifu, Japan⁵Kawarada Dentistry and Oral Surgery, Tsu, Japan⁶Suwa Dental Clinic, Nagaokakyo, Japan

17:04-17:11

Nr. 174

**Utility of liquid-based cytological sample
from fine needle aspiration in the diagnosis of tuberculosis****Chunyan Wu, Wei Wu, Zhengwei Dong, Haiting Wei**Shanghai Pulmonary Hospital, Shanghai Pulmonary Hospital, Department of
Pathology, Shanghai, China

08:00-09:45

SPADOLINI PAVILION ROOM 2

13²⁰²⁵
MAY
TUESDAY

MOLECULAR CYTOLOGY

PROFERRED PAPERS PP04

Chair: **Udipi Shastri Dinesh**, USA
Paul VanderLaan, USA

08:00-08:07

Nr. 060

Targeting p38 γ synergistically enhances Sorafenib-induced cytotoxicity in hepatocellular carcinoma

Chen Huang, Chenliang Zhang, Feng Bi

West China Hospital, Department of Oncology, Chengdu, China

08:07-08:14

Nr. 066

Cytopathology in the era of molecular modelling and molecular dynamics. The lesson of rare fusions in lung cancer.

Massimo Barberis¹, Yinxiu Zhan¹, Valeria Midolo¹,
Clementina Di Tonno¹, Guido Tiana²

¹*Istituto Europeo di Oncologia, Experimental Oncology, Milano, Italy,*

²*University of Milan, Center for Complexity and Biosystems, Milano, Italy*

08:14-08:21

Nr. 076

Performance of laboratories in external quality assessment (UK NEQAS ICC) for immunocytochemistry on cytology samples

R. Roque^{1,2}, I.S. Kirbis³, S. Parry⁴, A. Félix^{1,2}

¹*Instituto Português de Oncologia de Lisboa Francisco Gentil, EPE, Lisboa, Portugal;*

²*NOVA Medical School, Lisboa, Portugal;*

³*Institute of Pathology, Faculty of Medicine, University of Ljubljana, Korytkova, Ljubljana, Slovenia;*

⁴*UKNEQAS ICC & ISH, London, United Kingdom.*

08:21-08:28

Nr. 078

RET-rearranged enteric-type lung adenocarcinoma metastatic to the thyroid harboring diagnosed on FNA**A. M. Carillo¹**, C. De Luca¹, M. Salatiello¹, P. Pisapia¹, V. Damiano², E. Vigliar¹, M. D'Armiento³, G. Troncone¹, C. Bellevicine¹¹Department of Public Health, University of Naples Federico II, Naples, Italy²Medical Oncology, Integrated Activity Department of Onco-Hematological Diseases, Pathological Anatomy and Rheumatic Diseases, AOU Federico II, 80131 Naples, Italy³Department of Advanced Biomedical Sciences, University of Naples, Italy

08:28-08:35

Nr. 108

Cytological smear and cell block versus tissue biopsies in the diagnosis of malignant tumours in non-gynaecologic specimens**Najat AlDairi**, Asma AlGhalabii

Sultan Qaboos University Hospital, pathology, Muscat, Oman

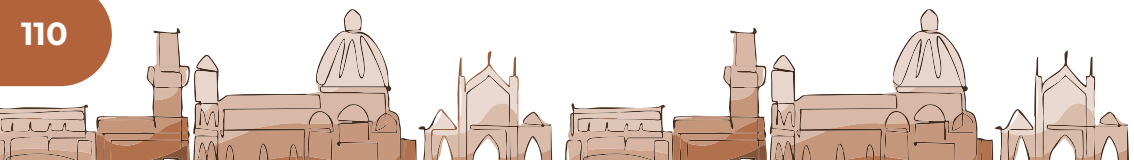
08:35-08:42

Nr. 130

Detection of FGFR3/pTERT alterations in LBC urine clarifies indeterminate TPS cytology categories**E.Thodou¹**, M. Samara¹, K. Zarra², C. Apostolopoulou¹, L. Mitrakas³, P.Vlachostergios^{3,4}, I. Zachos³, V. Tzortzis³, M. Ioannou¹¹Department of Pathology, Faculty of Medicine, School of Health Sciences, University of Thessaly, Larissa, Greece²Department of Biochemistry-Biotechnology, School of Health Sciences, University of Thessaly, Larissa, Greece³Department of Urology, Faculty of Medicine, School of Health Sciences, University of Thessaly, Larissa, Greece⁴Department of Medical Oncology, IASO Thessalias, Larissa, Greece

08:42-08:49

Nr. 147

A comparative study of immunofluorescence and immunohistochemistry for rapid and reliable primary ciliary dyskinesia diagnosis.**A. Stracuzzi¹**, R. Mariani¹, N. Ullmann², N. Leone¹, A. Boni², A. Coretti², R. Alaggio¹ and R. Cutrera²¹Pathology Unit, Bambino Gesù Children's Hospital, Rome, Italy²Pneumology and Cystic Fibrosis Unit, Bambino Gesù Children's Hospital, Rome, Italy

08:49-08:56

Nr. 173

Comprehensive analysis of NGS and ARMS-PCR for the detection of actionable mutations of in NSCLC using liquid-based cytological specimens**Chunyan Wu, Wei Wu, Zhengwei Dong***Shanghai Pulmonary Hospital, Shanghai Pulmonary Hospital, Department of Pathology, Shanghai, China*

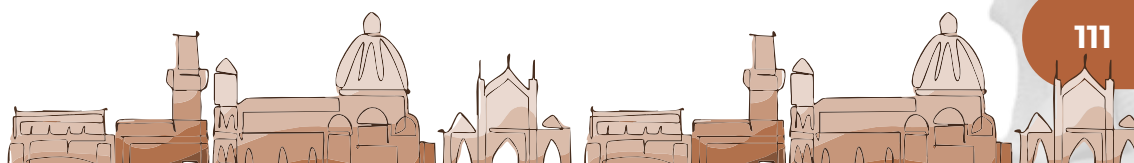
08:56-09:03

Nr. 192

The utility of a DNA-Based NGS panel in the cytological diagnosis of indeterminate thyroid nodules**K Ceyhan¹, B Pamuk¹, N Aras¹, B Cevik¹, M Besler¹, M Sahin², V Genc³, MK Gokcan⁴, AB Kirmizi¹, SD Sak¹**¹*Department of Pathology, Ankara University Faculty of Medicine, Ankara, Turkey*²*Department of Endocrine and Metabolic Disorders, Ankara University Faculty of Medicine, Ankara, Turkey*³*Department of General Surgery, Ankara University Faculty of Medicine, Ankara, Turkey*⁴*Department of Otorhinolaryngology-Head and Neck Surgery, Ankara University Faculty of Medicine, Ankara, Turkey*

09:03-09:10

Nr. 205

High reproducibility of mRNA-based HPV testing in anal samples with low-grade and high-grade cytological lesions.**R. Granados¹, N. Ruiz¹, G. Marabé¹, B. Carretero¹, J.M. Rodriguez-Barbero¹, M. Granados¹, J.P. Morillo¹**¹*Pathology Department. Hospital Universitario de Getafe, Madrid, Spain*

09:45-10:45

SPADOLINI PAVILION ROOM 2

13²⁰²⁵
MAY
TUESDAY

LYMPH NODES, PANCREAS

PROFERRED PAPERS PP05

Chair: **Mousa Al-Abbadi**, Saudi Arabia
Martha Pitman, USA

09:45-09:52

No. 010

Non-lymphoid elements in the proposed sydney system for lymph node cytopathology: a head and neck perspective

Kathleen Bi-Lin Wung, Li Yan Khor, Kok Hing Lim

Department of Anatomical Pathology, Division of Pathology, Singapore General Hospital, Academia

09:52-09:59

Nr. 050

Application of WHO reporting system for pancreaticobiliary cytopathology with associated risk of malignancy-an institutional experience

S. Chandra¹, A. Agarwal¹

¹Department of Pathology, Himalayan Institute of Medical Sciences, Swami Rama Himalayan University, Dehradun, India

09:59-10:06

Nr. 061

Preoperative mediastinal EBUS-FNA is linked to greater surgical lymph node sampling in lung cancer

A. Lametti¹², É. Pichette¹², A. Hassan², B. Laor², E. Mugutso²³, N. Ezer²³⁴, M. Auger¹², J. Spicer²³⁵, P.O. Fiset¹²³

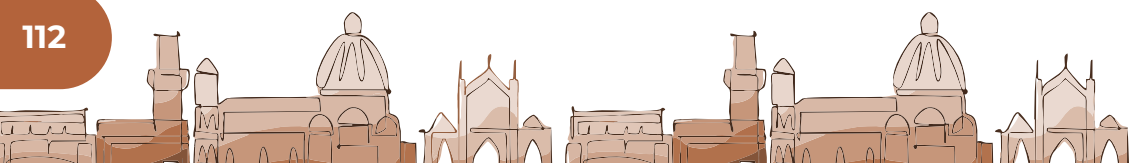
¹Department of Pathology, McGill University, Montréal, Canada

²Faculty of Medicine and Health Sciences

³McGill University, Montréal, Canada; ³Research Institute-MUHC, Montréal, Canada

⁴Department of Epidemiology, Biostatistics and Occupational Health, McGill University, Montréal, Canada

⁵Division of Thoracic and Upper Gastrointestinal Surgery, McGill University, Montréal, Canada



10:06-10:13

Nr. 143

Utility of cytology in the evaluation of pancreatic mass lesions in a tertiary care center**S.M. Kaviya¹**, Rari P Mony¹, M.H. Geethi², Anitha Mathews¹, Preethi Sara George³¹Department of Pathology, Regional Cancer Centre, Trivandrum, India²Department of Radiation Oncology, Regional Cancer Centre, Trivandrum, India³Division of Epidemiology and Biostatistics, Regional Cancer Centre, Trivandrum, India

10:13-10:20

Nr. 145

From smear to diagnosis: the role of ancillary techniques in lymph node fine-needle cytology**E. Maffei¹**, G. Di Motta¹, R. Ruotolo¹, A. Caputo^{1,2}, P. Zeppa^{1,2}.¹Department of Pathology, Cytopathology, and Molecular Department, University Hospital of Salerno, Salerno, Italy.²Department of Medicine and Surgery, University of Salerno, Salerno, Italy.

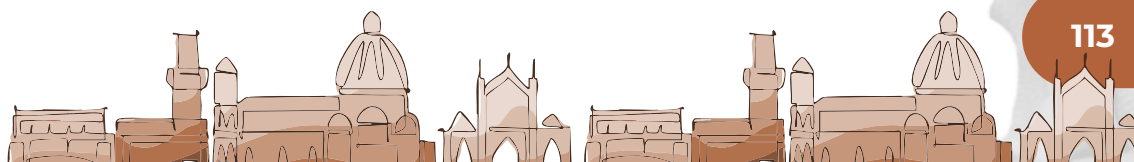
10:20-10:27

Nr. 172

Clinical implications and performance of the WHO reporting system for lymph node cytopathology**K. Ericson Lindquist¹**, G. Cortas¹, Y. Hashemi¹, N. Rajabian¹, M. Ehinger¹¹Faculty of Medicine, Department of Clinical Sciences, Division of Pathology, Lund University, Lund, Sweden

10:27-10:34

Nr. 182

Removing the ROSE-colored glasses: reassessing rapid on-site evaluation value in a telecytology era**L.J. Ray¹**, M.M. Al-Attar¹, A. Ly¹¹Department of Pathology, Massachusetts General Brigham, Boston, MA, USA

11:15-12:45

SPADOLINI PAVILION ROOM 2

GYNECOLOGICAL, HEAD & NECK, INFECTIOUS DISEASE
PROFERRED PAPERS PP06Chair: **Kari Syrjänen**, Finland
Donna Russell, USA

11:15-11:22

Nr. 055

**Advancements in AI-assisted cervical cytology:
evaluating the PSx2 algorithm****Hyungkyung Kim**¹, Tsandmaa Byambadorj², Seung Hyun Choi²,
Kyung Jin Seo², Rushabh Mehta³, Girish Muzumdar³, Gautmi Badkar³,
Hyunjoo Yoo², Yunhwa Hong², Yosep Chong²*¹Department of Pathology, Samsung Medical Center, Sungkyunkwan University School of Medicine, ²Department of Hospital Pathology, College of Medicine, The Catholic University of Korea, Seoul, Korea, ³Identify.bio®, Mumbai, India*

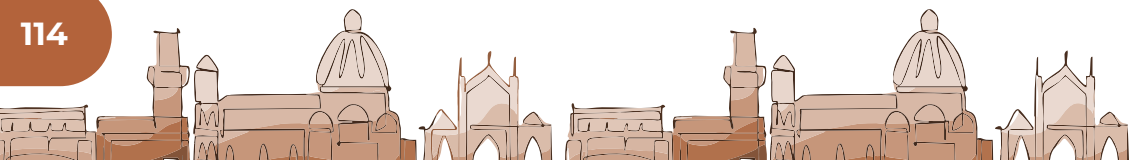
11:22-11:29

Nr. 056

**Cervical screening by conventional and liquid based cytology:
A cytologic study of 5325 cases in Eastern India****Santosh Kumar Mondal**, Mrinal Sarkar, Abishek Chakraborty,
Paul Sayanti*All India Institute of Medical Sciences, Pathology and Laboratory Medicine, Kalyani, India*

11:29-11:36

Nr. 059

**Cervicovaginal infections and coinfections, their significance
through the Papanicolaou test.****E.Y. Walttuoni Picón**¹, V.A. Rojas Zumarán^{2,3}, G. Cruz-Gonzales^{3,4}, R.
Lozada-Díaz⁵, C. Yovera-Ancajima^{1,6}*¹Grupo de investigación Salud Pública: Enfermedades infecciosas y no infecciosas tropicales, Universidad Nacional Federico Villarreal, Lima, Perú**²Servicio de Anatomía Patológica, Hospital Nacional Docente Madre Niño San**Bartolomé, Lima, Perú ³Facultad de Tecnología Médica, Universidad Nacional**Federico Villarreal, Lima, Perú ⁴Facultad de Ciencias de la Salud, Universidad**Tecnológica del Perú, Lima, Perú ⁵Servicio de Patología Clínica, Hospital II-1**Moyobamba, San Martín, Perú ⁶Escuela de Tecnología Médica, Universidad Peruana**Cayetano Heredia, Lima, Perú*

11:36-11:43

Nr. 098

**The daily peer review in cervical cytology:
5 years of data collection and new performance indicators****C. Giachini¹, G. Pompeo¹, D. Puliti¹, G. Gorini¹, I. Paganini¹, S. Cannistrà¹,
G. Fantacci¹, F. Carozzi^{1*}, C. Di Stefano¹, C. Sani¹**¹*Institute for Cancer Research, Prevention and Clinical Network (ISPRO), Florence, Italy***Retired*

11:43-11:50

Nr. 109

**Screening and diagnosing triage cytology
with the genius digital diagnostics system®.****H. Edvardsson, N. Baderkhan, I. Carlsén, S. Larsson, F. Rafiefard, V.
Torres-Larsson***Dept. of Pathology and Cancer Diagnostics, Karolinska Hospital, Stockholm, Sweden*

11:50-11:57

Nr. 138

Differential diagnosis of cervical glandular lesions

M.A. Nauth, P. Fischer

Cervical Dysplasia Center Konstanz, Germany

11:57-12:04

Nr.180

**Concordance between fine needle aspiration cytology and xpert
mtb/rif in the diagnosis of extrapulmonary tuberculosis****H. Agustina¹, B. Andriyoko², N. Kusumadjayanti¹, A.U. Aimmma²**¹*Department of Anatomical Pathology, Faculty of Medicine, Universitas Padjadjaran/
Dr. Hasan Sadikin General Hospital, Bandung, Indonesia*²*Department of Clinical Pathology, Faculty of Medicine, Universitas Padjadjaran/Dr.
Hasan Sadikin General Hospital, Bandung, Indonesia General Hospital, Bandung,
Indonesia*

12:04-12:11

Nr. 188

**Reflex hrHPV testing following abnormal liquid-based screening
cytology: experience from a single institution****Bracic Tomazic Suzana¹, Kellner Jennifer¹, Lax Sigurd F^{1,2}**¹*Department of Pathology, Hospital Graz II, Styrian Hospital Corporation, Academic
Teaching Hospital of the Medical University of Graz, Graz, Austria.*²*School of Medicine, Johannes Kepler University, Linz, Austria.*

12:11-12:18

Nr. 194

Hormonally active tumor in a postmenopausal woman discovered using cervical cytology**V. Najdanovic Mandic¹, M. Trailovic²**¹Harmony Healthcare Clinic, Zajecar, Serbia²Gynecology Obstetrics Department, Health Center Zajecar, Zajecar, Serbia

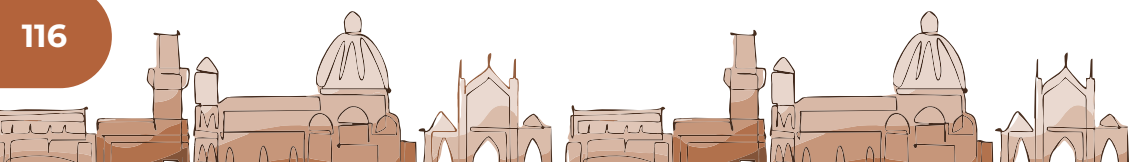
12:18-12:25

Nr. 198

Clear cell neoplasm in salivary gland FNA? Maybe it's from kidney!**I.Sorice¹, A. M. Carillo¹, M. Salatiello¹, C. De Luca¹, V. Damiano²,
G. Dell'Aversana Orabona³, E. Vigliar¹, G. Troncone¹, C. Bellevicine¹**¹Department of Public Health, AOU Federico II, Naples, Italy²Department of Medical Oncology, AOU Federico II, Naples, Italy³Department of Odontostomatological Sciences, AOU Federico II, Naples, Italy

12:25-12:32

Nr. 202

Papillary carcinoma of the neck with unknown primary, a challenging case with diagnostic dilemma**M. Al Ghafri¹, N. Al Julandani¹**¹Medical City for Military and Security Services, Muscat, Oman

12:45-14:00

SPADOLINI PAVILION ROOM 2

13²⁰²⁵
MAY
TUESDAY

THYROID

PROFERRED PAPERS PP07

Chair: **Massimo Bongiovanni**, Switzerland
Edmund Cibas, USA

12:45-12:52

Nr. 003

Effect of covid-19 on adequacy of fine-needle aspiration of thyroid nodules in a training hospital

C.V. Mirhan¹, D. T. Argamosa², J. Rivera¹

¹Department of Laboratories, Philippine General Hospital, University of the Philippines Manila, Taft Ave., Manila, Philippines

²Department of Pathology, College of Medicine, University of the Philippines Manila, Pedro Gil St., Manila, Philippines

12:52-12:59

No. 004

Performance of two-tier aus subcategories in thyroid fnab without routine Molecular Testing.

P.D. Santos¹, C.R. Lai² and J.F. Hang²

¹Department of Pathology and Laboratories, Makati Medical Center, Makati, Philippines

²Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan

12:59-13:06

Nr. 045

Formulation of a novel cytodiagnostic scoring system for papillary thyroid carcinoma

A. Salillas, J.J. Batirzal, E. Almocera, et al.

Pathology Department, Governor Celestino Gallares Memorial Medical Center, Bohol, Philippines

13:06-13:13

Nr. 051

Understanding the rising trend of papillary thyroid carcinoma **Gunvanti Rathod**

Additional Professor, AIIMS, Hyderabad, Telangana, India

13:13-13:20

Nr. 069

Cytology of thyroblastoma: a case report of a novel entity in a pregnant patient**R. Razack**¹, F. Hoosain², A.C. van Wyk¹, W.D. Foulkes³, W. Conradie²¹Division of Anatomical Pathology, Tygerberg Hospital, National Health Laboratory Service, Faculty of Medicine and Health Sciences, Stellenbosch University, Cape Town, South Africa. ²Division of Surgery, Department of Surgical Sciences, Faculty of Medicine and Health Sciences, University of Stellenbosch, Cape Town, South Africa³Departments of Medicine, Oncology and Human Genetics, McGill University, Canada

13:20-13:27

Nr. 118

Fine needle aspiration of thyroid bed lesions: a 10-year experience at a tertiary care center**Kurtulan O., Önder S.**

Department of Pathology, Hacettepe University Faculty of Medicine, Ankara, Turkey.

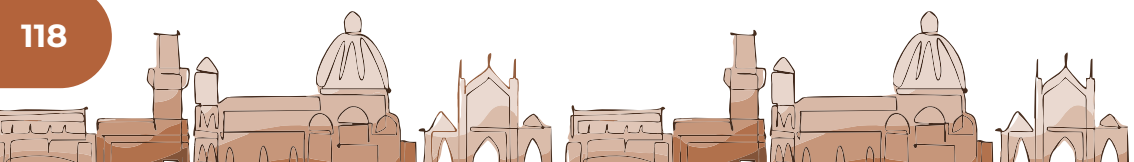
13:27-13:34

Nr. 127

Real-time digital cell collection from thyroid FNA supports a new gene expression profiling tool**G. Maricchiolo**¹, V. Morano², C. Di Gioia³, M. Biffoni⁴, L. Giacomelli⁴, M. Sponziello⁵, C. Durante⁵, A. Crescenzi³¹Dept Molecular Medicine, Sapienza University of Rome, Italy²Unit Endocrine Organs and Neuromuscular Pathology, Fondazione Policlinico Campus BioMedico³Dept Radiological, Oncological and Pathological Sciences⁴Dept Surgical Sciences, and ⁵Dept Translational and Precision Medicine, Sapienza University of Rome, Italy

13:34-13:41

Nr. 142

Atypia of undetermined significance a retrospective reclassification study**Brazão Lopes**¹ Miguel Rito¹ Saudade André¹¹Serviço de Anatomia Patológica, IPO Lisboa, Lisboa, Portugal

13:41-13:48

Nr. 148

Lymphocytes presence in cytological samples and histological subtype of papillary thyroid carcinoma**Fuochi B¹**, Proietti A¹, Romani R¹, Sgro D², Latrofa F², Santini F², Ugolini C¹

¹Pathology Unit, Department of Surgical, Medical, Molecular Pathology and Critical Area, University Hospital of Pisa, Italy ²Endocrinology Unit, Department of Clinical and Experimental Medicine, University of Pisa, Italy

13:48-13:55

Nr. 150

Value of lipofuscin and marginal vacuoles in the cytological diagnosis of benign thyroid follicular disease versus thyroid carcinomas.**José A.**, J. Heffernan, P. Muñoz Hernández, José C. Rodríguez, C. Gordillo, J. Aparicio, C. Bárcena, A. Rosell, L. Castillo, J. L. Muñoz De Nova, E. Pacios

Hospital Universitario de la Princesa, Madrid, Spain

13:55-14:02

Nr. 152

Role of core needle biopsy in thyroid nodules diagnosis**A.P. Bueno¹**, M. Puztaszteri², G. Dall'Agnol¹, M. Hisatugu¹, M. Saieg²

¹Department of Anatomic Pathology, AC Camargo Cancer Center, São Paulo, Brazil

²Department of Pathology, McGill University, Montreal, QC, Canada

14:02-14:09

Nr.183

Molecular profiling of indeterminate thyroid nodules: findings from an institutional cohort.**V. Fiorentino¹**, C. Pizzimenti², W. Giordano¹, G. Ricciardi¹, E. Germanà¹, M. Ballato¹, G. Giuffrè¹, M. Martini¹, G. Fadda¹, E. D. Rossi³.

¹Department of Human Pathology of Adult and Developmental Age "Gaetano Barresi", University of Messina, Italy. ²Pathology Unit, Papardo Hospital, Messina, Italy.

³Department of Anatomic Pathology, Foundation Policlinico Universitario "Agostino Gemelli" IRCCS, Catholic University, Italy.

14:09-14:16

Nr. 210

Cystic nodules of thyroid gland, histiocytoid cells and risk of papillary carcinoma: a case report**D. Trivigno**, E. Papini, L. Turrini, R. Guglielmi, A. Crisanti

Regina Apostolorum, Regina Apostolorum, Rome, Italy

16:15-17:15

SPADOLINI PAVILION ROOM 2

BREAST, URINE

PROFERRED PAPERS PP08Chair: **Andrew Field**, Australia**Christopher Vandenbussche**, USA

16:15-16:22

Nr. 054

Immunocytochemical expression of MUC1 on cellblocks from fine needle aspiration cytology of breast cancers**Ram Nawal Rao¹**, Doleesmita Hazarika², Gyan Chand³¹Department of Pathology, SGPGIMS, Lucknow, UP, India²Department of Pathology, SGPGIMS, Lucknow, UP, India³Department of Endocrine Surgery, SGPGIMS, Lucknow, UP, India

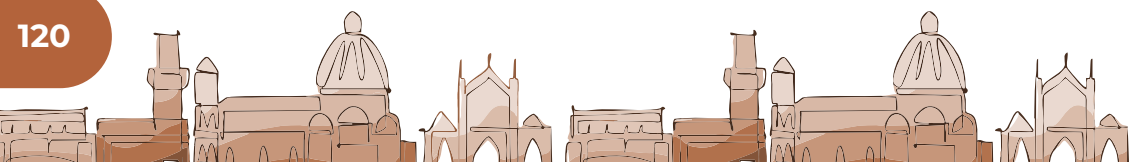
16:22-16:29

Nr. 074

Quantitative cytomorphological characteristics of high-grade urothelial carcinoma cells in urine**H. Ohsaki¹**, A. Nakamura², S. Kamoshida¹¹Department of Medical Biophysics, Kobe University Graduate School of Health Sciences, Japan;²Department of Clinical Laboratory Science, Faculty of Health Care, Tenri University, Japan

16:29-16:36

Nr. 099

Regional protocol for diagnosis of anaplastic large cell lymphoma in cases of periprosthetic seroma**G. Fantacci¹**, C. Di Stefano¹, S. Lazzi², S. Cannistrà¹, S. Giunti¹, A. Mongia¹, V. Mancini², M. Granai², C. Sani¹¹Regional Cancer Prevention Laboratory (LRPO), Institute for Cancer Research, Prevention and Clinical Network (ISPRO), Florence, Italy²Anatomical Pathology Unit, Siena University Hospital, Siena, Italy

16:36-16:43

Nr. 102

Diagnostic accuracy of ultrasound findings and fine needle aspiration cytology of axillary lymph node in diagnosing metastatic breast cancer**Najat AlDairi**, Wasan AlRyami*Ministry of Health, Pathology, Muscat, Oman*

16:43-16:50

Nr. 191

Performance of MammaTyper® in cytological, biopsy, and surgical breast cancer samples**Pinamonti M¹**; Santon D¹; Bottin C²; Ober E¹; Rizzardi C¹; Di Lecce C^{1,3}; Zanconati F^{1,2,3}.¹Azienda Sanitaria-Universitaria Giuliano-Isontina (ASUGI), Department of Pathology, Trieste (Italy)²Department of Medical, Surgical and Health Sciences, University of Trieste (Italy)³School of Specialization of Pathology, University of Udine (Italy)

16:50-16:57

Nr. 208

URINE24: a novel approach for a suitable cytology cancer diagnosis**M. Botteghi¹**, P. Giovenali², S. Carattoni³, S. Martinotti⁴, E. Toniato⁵, F. Puliti⁶, L. Martino⁷, N. Ahmed⁸, G. Gazzano⁹, F. Trisolini⁶¹Università Politecnica delle Marche, Department of Clinical and Molecular Sciences - Experimental Pathology Research Group, Ancona, Italy²APOF, Associazione Patologi Oltre Frontiera, Milano, Italy APOF, Associazione Patologi Oltre Frontiera, Milano, Italy³WorldConnex, R&D Dept., Dogana, San Marino⁴Miulli General Hospital - LUM University, Unit of Clinical Pathology and Microbiology, Acquaviva delle Fonti, Italy⁵G.d'Annunzio University, Department of Innovative Technology in Medicine and Dentistry, Chieti, Italy⁶Hospitex International, Bioscience Dept., Sesto Fiorentino, Italy⁷Pathosphere, R&D dept., Bologna, Italy⁸Addis Ababa University - Black Lion Hospital, Pathology Dept., Addis Ababa, Ethiopia⁹Istituto Auxologico Italiano IRCCS, Pathology Unit, Milano, Italy

08:00-09:45

SPADOLINI PAVILION ROOM 2

LUNG

PROFERRED PAPERS PP09Chair: **Lukas Bubendorf**, Switzerland
Danijela Vrdoljak-Mozetic, Croatia

08:00-08:07

Nr. 008

Accuracy of rapid on-site evaluation of fine needle aspirations in pulmonary lesions using shape sensing robotic-assisted bronchoscopy**Heather Chen-Yost¹**, Yuhan Geng², Wei Hao², Spencer Kei³, Angela Sherman³, Jose De Cardenas^{3,4}, Judy Pang¹¹Department of Pathology, Michigan Medicine, Ann Arbor, USA²Department of Biostatistics, University of Michigan School of Public Health, Ann Arbor, USA³Division of Pulmonary and Critical Care Medicine, Michigan Medicine, Ann Arbor, USA⁴Section of Thoracic Surgery, Michigan Medicine, Ann Arbor, USA

08:07-08:14

Nr. 021

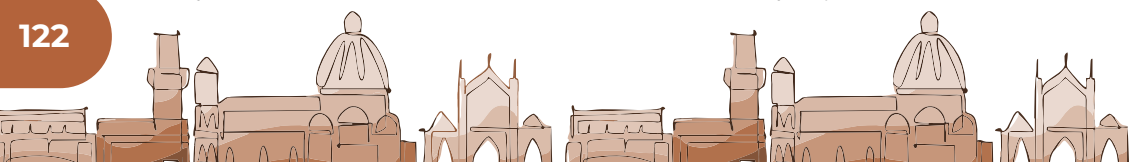
Analysis of intranuclear cytoplasmic inclusions in cytological specimens of lung adenocarcinoma**S. Kobayashi¹**, M. Kameda¹, R. Kaneko¹, Y. Nishijima¹, T. Nagashima², Y. Ohtaki², H. Ikota³, H. Yokoo⁴, M. Saio¹¹Laboratory of Histopathology and Cytopathology, Department of Laboratory Sciences, Gunma University Graduate School of Health Sciences, Japan²Division of General Thoracic Surgery, Integrative Center of General Surgery, Gunma University Hospital, Japan³Clinical Department of Pathology, Gunma University Hospital, Japan⁴Department of Human Pathology, Gunma University Graduate School of Medicine, Japan

08:14-08:21

Nr. 085

Cytological features of a SMARCA4 deficient thoracic undifferentiated tumour. A report of metastasis to a lymph node**Rubina Razack**, Liezel Coetzee

Division of Anatomical Pathology, Tygerberg Hospital, National Health Laboratory Service, Faculty of Medicine and Health Sciences, Stellenbosch University, Cape Town, South Africa.



08:21-08:28

Nr. 094

Diagnostic utility of cell block in pleural and bronchial samples from clinically suspected cases of lung malignancies

Tummidhi Santosh, Ananya NG, Sudip Ghosh, Rama Saha

Department of Pathology and Lab Medicine, AIIMS Kalyani

08:28-08:35

Nr. 106

A rapid cellular pathological diagnostic model for NSCLC patients, from morphology to precise molecular detection

Zhengwei Dong, Chunyan Wu

Shanghai Pulmonary Hospital, Shanghai pulmonary hospital/Tongji University/Pathology, Shanghai, China

08:35-08:42

Nr. 136

Cytomorphological features of SMARCA4-deficient thoracic tumors and non-small cell lung carcinomas

C. Aydin Mericoz, O. Akbulut, P. Bulutay, P. Firat

Koç University Hospital, Istanbul, Turkey

08:42-08:49

Nr. 149

Enteric-type adenocarcinoma of the thymus: a case report and review of the literature

G. Pereira¹, J. Cabeçadas¹ & J. Ferreira¹

¹Instituto Português de Oncologia de Lisboa Francisco Gentil, Lisboa, Portugal

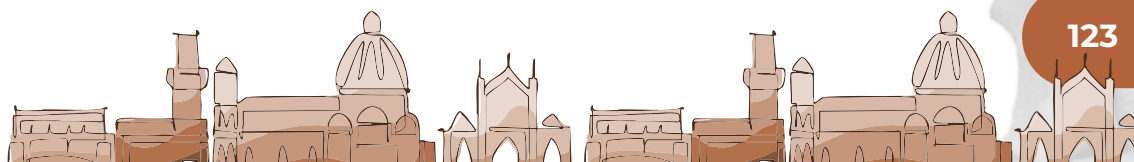
08:49-08:56

Nr. 154

Bronchial epithelial cells are a major challenge in EBUS-Guided transbronchial FNA adequacy assessment

Haijun (Steve) Zhou, Nancy Beltran, Marco Sanchez, and Dina Mody

Department of Pathology and Genomic Medicine, Houston Methodist Hospital, Houston TX



08:56-09:03

Nr. 175

**Down the wrong pipe:
low utility of lipid-laden macrophage
index in pediatric bronchoalveolar lavage**

A. Huynh, A. Ly*Department of Pathology, Massachusetts General Hospital, Boston, MA, USA*

09:03-09:10

Nr. 197

**Enhancing the success
of genetic mutation testing in lung cancer:
the utility of ROSE on bronchoscopic specimens**

**M. Tachihara, Y. Suma, R. Tsukamoto, N. Takata, T. Fukui,
A. Yatani, D. Hazama, N. Katsurada, N. Jimbo***Kobe University Hospital, Kobe, Japan**Department of Respiratory Medicine, Department of Diagnostic Pathology*

09:10-09:17

Nr. 203

**Mediastinal lymph node staging by EBUS-TBNA:
exploring specificity**

J. Filipe¹, I. Lino¹, R. Coelho², L. Carreiro², M. J. Brito¹*¹Department of Anatomic Pathology, Champalimaud Clinical**Center-Champalimaud Centre for the Unknown, Lisbon, Portugal**²Lung Unit, Champalimaud Clinical Center-Champalimaud Centre for the Unknown,
Lisbon, Portugal*