



**SUNY  
DOWNSTATE**  
Health Sciences University

# 2<sup>nd</sup> World Congress on Confocal Microscopy

**Simulive Virtual Interactive  
Continuing Medical Education**

**Friday - Sunday  
May 21-23, 2021  
3 Time Zones**

AEST/UTC+10/Brisbane CEST/UTC+2/Madrid CDT/UTC-5/Chicago

[2ndWorldCongress.eventbrite.com](https://2ndWorldCongress.eventbrite.com)

# The International Confocal Working Group's

## 2<sup>nd</sup> World Congress on Confocal Microscopy

Now a Simulative Virtual Interactive Event

Friday – Sunday

May 21-23, 2021

3 Time Zones

AEST/UTC+10/Brisbane

CEST/UTC+2/Madrid

CDT/UTC-5/Chicago

wcConfocalMicroscopyNYC@gmail.com

**CME Sponsored by SUNY Downstate  
Departments of Pathology and Dermatology**

**Congress Presidents and SUNY Faculty**



Melissa Gill, MD



Orit Markowitz, MD

**Congress Secretariats**



Jane Grant-Kels, MD



Harold Rabinovitz, MD



Milind Rajadhyaksha, PhD



Anthony Rossi, MD

**International Confocal Working Group**

Salvador González, MD PhD, President

**1st International Symposium of the International Confocal Working Group**

**President:** Salvador González, MD PhD

**Organizing Committee:** Josep Malhevy, MD & Susana Puig, MD

**1st World Congress on Confocal Microscopy**

**Presidents:** Giovanni Pellacani, MD & Marco Ardigo, MD PhD

**General Secretariat:** Caterina Longo, MD PhD

**This continuing medical education activity has been approved by SUNY  
Downstate for 20 AMA PRA Category 1 Credits™**

**ADA Statement Special Needs:**

In accordance with the Americans with Disabilities Act, SUNY Downstate Health Sciences University seeks to make this conference accessible to all. If you have a disability which might require special accommodations, please email your needs to: [wcConfocalMicroscopyNYC@gmail.com](mailto:wcConfocalMicroscopyNYC@gmail.com)



# SCIENTIFIC PROGRAM | SCIENTIFIC AGENDA

## Friday May 21, 2021 | Time Zones: Brisbane, Madrid, Chicago

9:00 AM DAY 1 SESSION 1: Medical and Economic Impact of Reflectance Confocal Microscopy		
10 min	Opening remarks from Congress Presidents	Melissa Gill & Orit Markowitz
10 min	Welcome from SUNY Downstate Pathology and Dermatology Chairs	Jenny Libien & Edward Heilman
15 min	Tales from confocal frontiersmen, 1992 - present	Salvador González & Milind Rajadhyaksha
10 min	The limitations of dermoscopy: false-positive and false-negative tumors	Aimilios Lallas
10 min	Why I decided I needed confocal, perspectives from an expert dermoscopist	Horacio Cabo
10 min	Unique practice challenges in Costa Rica alleviated with RCM	Josephine Hernandez
5 min	Melanoma Mimickers: the impact of incorporating in vivo RCM (Oral Abstract)	Francesca Farnetani
5 min	A prospective study of the use of RCM to diagnose BCC in a United Kingdom private practise	Howard P. Stevens
15 min	Implementation of confocal microscopy in a dermatology department: number needed to excise as a measurement of how confocal microscopy improves cost-efficiency at a tertiary care center in Spain	Susana Puig
5 min	Cost-effectiveness analysis of the incorporation of RCM in the Brazilian health system (Oral Abstract)	Nathalie De Carvalho
10 min	RCM and the non-invasive toolset	Orit Markowitz
10 min	Leaping over reimbursement roadblocks? Lessons from around the world	Daniel Mark Siegel & John Cangelosi
15 min	Session Q&A Chat	Session Faculty
<b>Break: Go to chat lounge or exhibit hall</b>		
12:00 PM DAY 1 SESSION 2: Putting Patients First: Evolving Practice Guidelines and Quality Standards for Confocal Microscopy		
10 min	DICOM standards in confocal microscopy	Liam Caffery & Joseph Malveyh
10 min	Quality assurance I: at the bedside, the dermatologist's perspective	Orit Markowitz
10 min	Quality assurance II: obtaining a quality image set	Christi Alessi-Fox
10 min	Quality assurance III: remote reading, the dermatopathologist's perspective	Melissa Gill
10 min	Dermoscopic clues of dermal features - Confocalist beware!	Rainer Hofmann-Wellenhof
10 min	The cases which taught me the most	Babar Rao
10 min	Knowing when to question the "gold standard"	Alon Scope
10 min	Precision biopsy techniques & finding your way with the hand-held RCM	Cristian Navarrete-Dechent
10 min	Session Q&A Chat	Session Faculty
<b>Break: Go to Chat Lounge or Exhibit Hall</b>		
2:00 PM DAY 1 SESSION 3: A Primer on In Vivo RCM Interpretation		
15 min	Normal skin structures and basic RCM terminology	Maggie Oliviera
25 min	RCM features of non-melanocytic tumors, an introduction	Harold Rabinovitz
30 min	RCM features of melanocytic tumors, an introduction	Jane Grant-Kels
10 min	RCM features of superficial inflammatory dermatitides, an introduction	Melissa Gill
10 min	Session Q&A Chat	Session Faculty
3:30 PM DAY 1 SESSION 4: Ex Vivo Confocal Microscopy		
15 min	Ex vivo confocal microscopy, a technical overview with spotlight on SCC	Javiera Perez-Anker
15 min	Ex vivo confocal microscopy applications in anatomic pathology	Savitri Krishnamurthy
10 min	Ex vivo confocal microscopy in the field of urology	Bernardo Rocco
10 min	Ex vivo confocal microscopy for breast pathology	Melissa Murray
10 min	Ex vivo confocal microscopy for dermatopathology	Daniela Hartmann
5 min	Ex vivo confocal microscopy for margin evaluation during Mohs micrographic surgery of BCC (Oral Abstract)	Bernardo Bancalari
10 min	Session Q&A Chat	Session Faculty
<b>Break: Go to Chat Lounge, Exhibit Hall or Oral Abstract Session</b>		



# Saturday May 22, 2021 | Time Zones: Brisbane, Madrid, Chicago

<b>9:00 AM DAY 2 SESSION 1: Advanced Non-invasive Diagnosis and Management of Cutaneous Tumors I</b>		
5 min	Opening remarks and perspectives from Congress Presidents	Melissa Gill & Orit Markowitz
15 min	Revolutionizing diagnosis and management of skin diseases	Sancy Leachman
10 min	Telemedicine triage increases cancer detection	Paola Pasquali
10 min	The dark side of dermoscopy	Ashfaq Marghoob
10 min	Harnessing dermatopathology to fine-tune your confocal practice	Melissa Gill
15 min	Practical approach to difficult melanocytic tumors	Giovanni Pellacani
5 min	RCM features of difficult-to-recognize variants of cutaneous melanoma: a case-based review (Oral Abstract)	Michela Lai
15 min	Papules and nodules: where the traps are hidden	Caterina Longo
10 min	RCM for BCC diagnosis, an update	Constantin Caruntu
10 min	SCC and its mimickers, challenges in differential diagnosis	Isil Karaarslan
5 min	In vivo reflectance confocal microscopy for conjunctival tumors	Elisa Cinotti
5 min	Merkel cell carcinoma: reflectance microscopy features	Elisa Cinotti
15 min	Session Q&A Chat	Session Faculty
<b>Break: Go to Chat Lounge, Exhibit Hall or Oral Abstract Session</b>		
<b>12:00 PM DAY 2 SESSION 2: Advanced Non-invasive Diagnosis and Management of Cutaneous Tumors II</b>		
15 min	Difficult facial and labial lesions: melanoma and its mimickers	Sonia Segura
5 min	The lentigo maligna spectrum: from atypical melanocytic hyperplasia to lentigo maligna melanoma (Oral Abstract)	Bruna Melhoranse Gouveia
15 min	Management of lentigo maligna	Pascale Guitera
15 min	Advanced diagnosis and management of superficial keratinocytic tumors	Salvador Gonzalez
15 min	Chicken soup approach to diagnose and manage skin cancer	Orit Markowitz
15 min	Use of confocal microscopy to guide management of complex non-melanoma skin cancers, a Mohs surgeon's perspective	Anthony Rossi
15 min	Game changers: using non-invasive tools in diagnosis and surveillance of congenital and syndromic tumors	Cristina Carrera
10 min	Lecture and Session Q&A Chat	Session Faculty
<b>Break: Go to Chat Lounge, Exhibit Hall or Oral Abstract Session</b>		
<b>2:00 PM DAY 2 SESSION 3: Advanced Non-invasive Diagnosis and Management of Inflammatory and Non-Neoplastic Diseases of the Skin and Peripheral Nerves</b>		
15 min	Advanced diagnosis and management of dermatitis and cutaneous lymphoma	Marco Ardigo
15 min	Update on RCM for blistering disorders and alopecia	Francesco Lacarubba
10 min	RCM for diagnosis and management of acne and other follicular disorders	Mette Mogensen
10 min	RCM for cutaneous infections and infestations	Mehmet Gurel
10 min	Utility of confocal microscopy for disorders of pigmentation	Philippe Bahadoran
5 min	Things you didn't know confocal could do (deposition disorders)!	Elisa Cinotti
10 min	Acute GVHD, an update and discussion comparing inter-rater reliability to detect features using RCM versus histopathology	Eric Tkaczyk
10 min	In vivo diagnosis of peripheral neuropathy	David Herrmann
5 min	RCM in the assessment and management of chemotherapy-induced peripheral neuropathy	Sabrina Ranmarine
5 min	In vivo RCM can be useful to evaluate target-therapy cutaneous adverse events in cancer patients (Oral Abstract)	Eugenie Arguedas
15 min	Session Q&A Chat	Session Faculty
<b>Break: Go to Chat Lounge, Exhibit Hall or Oral Abstract Session</b>		
<b>4:30 PM DAY 2: Game Night Happy Hour</b>		
10 min	Confocal Trivia	Scientific Faculty
<b>Break: Go to Chat Lounge, Exhibit Hall or Oral Abstract Session</b>		



@confocalNYC

# Sunday, May 23, 2021 | Time Zones: Brisbane, Madrid, Chicago

<b>9:00 AM DAY 3 SESSION 1: New Frontiers - Exploring the Future of Confocal Microscopy</b>		
5 min	Opening remarks and perspectives from Congress Presidents	Melissa Gill & Orit Markowitz
10 min	AI - lessons from dermatology	Roberto Novoa
10 min	AI - lessons from pathology	Gabriele Campanella & Matthew Hanna
10 min	In vivo mosaicking with the hand-held RCM	Oriol Yelamos
5 min	AI applications for the in vivo tissue-coupled RCM	Kivanc Kose
5 min	Convolutional neural network to classify skin lesions using RCM (Oral abstract)	Joanna Ludzik
10 min	Diagnosis of congenital pigmented macules in infants with RCM and machine learning (Oral abstract)	Morgane Vourc'h Jourdain/Anouk Soenen
5 min	Cellular level 3D visualization of lentigo maligna in vivo (Oral abstract)	James Grichnik
10 min	Advances in ex vivo confocal microscopy: from staining to AI	Josep Malvehy
5 min	Differentiation of malignant and benign pigmented skin tumours by reflectance confocal microscopy, optical coherence tomography and photoacoustic imaging in one session (Oral abstract)	Mette Mogensen
15 min	Combination devices to the rescue! Hand-held RCM 2.0, theranostics, and other future dreams	Milind Rajadhyaksha
10 min	Bridging the gap between dermoscopy and histology with integrated hand-held RCM-OCT	Jason Chen
10 min	Line-field Confocal OCT - the all-rounder?	Julia Welzel
10 min	Novel hand-held probe for in vivo RCM of oral cavity tumors	Snehal Patel
10 min	Bringing down size and cost	Dongkyun Kang
15 min	Session Q&A Chat	Session Faculty
<b>Break: Go to Chat Lounge, Exhibit Hall or Oral Abstract Session</b>		
<b>12:00 PM DAY 3 SESSION 2: RCM in Translational Research</b>		
10 min	Lasers, wound healing, drug trials: biopsy-free research without compromise!	Martina Ulrich
10 min	From cell to gene - RCM clues to molecular alterations	Gisele Rezze
10 min	Non-invasive evaluation of the tumor microenvironment: it's TIME!	Aditi Sahu
10 min	Tracking leukocyte-endothelial interactions in the first 100 days post hematopoietic stem cell transplantation	Inga Saknite
10 min	UV and laser-induced skin alterations through the lens of confocal	Verena Ahlgrimm-Siess
5 min	RCM to assess tissue morphologic changes induced by emollients in pediatric patients with atopic dermatitis	Rodrigo Roldan
5 min	The effect of emollients on actinic keratoses and actinically damaged skin (Oral abstract)	Cait Myrdal & Clara Curiel
5 min	Improved follicular delivery of microparticles following topical pretreatment visualized by optical imaging (Oral abstract)	Mette Mogensen
5 min	Reflectance confocal microscopic evaluation of density and diameter of dermal papillae in psoriatic and healthy skin: an inpatient controlled study (Oral Abstract)	Davide Francesco Puglisi
10 min	Session Q&A Chat	Session Faculty
<b>Break: Go to Chat Lounge, Exhibit Hall or Oral Abstract Session</b>		
<b>2:00 PM DAY 3 SESSION 3: Abstract and Scientific Faculty Q&amp;A Chat and Concluding Remarks</b>		
60 min	Oral Abstract Session Q&A Chat	Abstract Faculty
25 min	Scientific Agenda Q&A Chat	Scientific Faculty
5 min	Closing remarks and perspectives from Congress Presidents	Melissa Gill & Orit Markowitz
<b>3:30PM End Scientific Agenda</b>		



@confocalNYC

## Join us at the 2<sup>nd</sup> World Congress on Confocal Microscopy Now a simulative virtual interactive event May 21-23, 2021

This 3-day continuing medical education (CME) activity focused on in vivo and ex vivo laser scanning confocal microscopy is comprised of **113 scientific lectures and oral abstract presentations by 106 Scientific and Abstract Faculty from 22 countries spanning 5 continents**. The Scientific Faculty include leading international confocal microscopy experts in the fields of dermatology, dermatopathology, surgical pathology, neurology, urology, and optical engineering. This CME activity is designed to update healthcare professionals and researchers on how in vivo and ex vivo confocal microscopy can enhance patient care by reviewing applications, quality assurance practices and the latest advances in the diagnosis and management of neoplastic and non-neoplastic skin diseases. This congress also includes lectures discussing applications of in vivo and ex vivo confocal microscopy in the non-dermatologic landscape as well as research applications and future advances, such as multimodal devices and integrated machine learning.

### Learning Objectives

- Describe the value, complementary functions, and limitations of non-invasive cutaneous imaging devices (including dermoscopy, reflectance confocal microscopy (RCM) and optical coherence tomography) in various clinical settings
- Review RCM terminology and features used to diagnose skin lesions
- Understand how to incorporate quality assurance into non-invasive diagnostics
- Learn how to integrate RCM successfully in a busy dermatology clinic
- Discuss reimbursement and the economic impact of decreasing unnecessary biopsies by utilizing RCM in field of dermatology
- Hear from world experts on advanced RCM applications ranging from non-invasive diagnosis and management of sporadic and familial skin tumors and non-neoplastic skin disorders (such as psoriasis, atopic dermatitis, lupus, GVHD, blistering disorders, infestations, infections and melasma) in addition to translational research
- Learn about future advancements in the field of laser scanning confocal microscopy, such as combination devices and integrated machine learning
- Review how Mohs surgeons are using in vivo and ex vivo confocal microscopy
- Understand how in vivo and ex vivo confocal microscopy can be utilized in the the fields of pathology, neurology and surgery

### Who Should Attend?

This conference is designed for physicians (such as dermatologists, dermatopathologists, pathologists, and surgeons), physicians-in-training, allied health professionals, and researchers interested in adopting or currently using (from novice to expert level) in vivo or ex vivo laser scanning confocal microscopy.

### Accreditation

The SUNY Downstate Continuing Medical Education (CME) office is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The SUNY Downstate CME office has reviewed this activity and designates this live activity for a maximum of 20 AMA PRA Category 1 Credits™. Physicians may only claim credit commensurate with the extent of their participation in the activity. Educational content is indicated by the number of assigned credit minutes in the left-hand column within the program.

**Register Online at** <http://2ndworldcongress.eventbrite.com>

### Category

Physician	\$300
Researcher/Non-Physician Allied Health	\$150
Student/Resident/Fellow/Postdoc	\$35
Industry	\$500

### Cancellation Policy

Full registration fee is refundable up to 30 days before the event. Request cancellation directly through <http://www.eventbrite.com/signin>

SUNY Downstate CME office and congress organizers reserve the right for sole discretion to cancel or postpone this activity. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that SUNY Downstate and congress organizers are not responsible for related costs, penalties incurred as a result of cancellation or changes.

### What is a simulative virtual interactive CME event?

The virtual congress will provide you a similar experience to an in-person meeting in many ways. Attendees will enter the auditorium to view all educational content. Lectures will be pre-recorded and streamed simulative in the auditorium following the agenda's schedule simultaneously in 3 different time zones (AEST/UTC+10/Brisbane; CEST/UTC+2/Madrid; CDT/UTC-5/Chicago). Each lecture will have a dedicated group text chat room for real-time questions and answers (Q&A) during the simulative stream. This allows for easier Q&A as speakers do not need to juggle chat box questions while delivering a timely lecture. The lecture and chat can be re-reviewed during the simulative stream in a later time zone or on-demand for one month thereafter. CME credit can also be achieved by reviewing oral abstracts which will be similar to an in-person event, attendees and faculty can enter the chat lounge to meet colleagues, network with faculty and attendees and foster collaborations. Attendees can choose to enter the exhibit hall where they have the option to view non-educational content from sponsors and/or enter into a chat room at a sponsor's booth.

# 2<sup>nd</sup> World Congress on Confocal Microscopy