



G-CAN 2022 Eighth Annual Research Symposium

DRAFT AGENDA

In-person and Virtual

[Hilton Alexandria Old Town](#)

1767 King St, Alexandria, VA 22314 US

CONFERENCE REGISTRATION: <https://avp.swoogo.com/g-can2022>

SYMPOSIUM OVERVIEW OCTOBER 21-22, 2022

Friday October 21, 2022:

- Pre meeting “Speed Dating”/Meet the G-CAN leadership
- **General Session:** Crystal Arthropathy Clinical and Basic Research: The Year in Review; G-CAN Early Career Investigator Abstract Presentation Session; G-CAN Lifetime Achievement Awards Lectures and Award Presentations; G-CAN 2022 Ralph H. Schumacher Memorial Early Career Investigator Award Lecture; Presidential Emerging Career Investigator Awards Lectures and Award Presentations
- Focus Group Network Session Breakouts: CPPD and BCP Crystal Arthropathies, Genetics of Crystal Arthropathy and Imaging of Crystal Arthropathies.
- Reception

Saturday October 21, 2022

- Breakfast Mentor Networking Session
- **General Session 2:** Mini symposia: CPP and BCP Crystal Arthropathy, Gout and Hyperuricemia
- G-Can Gold Medal Investigator Award Lecture
- Early Career Investigator Select Awardee (SPARK) Lectures
- The Great Debate
- Group Dinner followed by Karaoke party (\$75 per person)

Notes on this year’s hybrid platform:

- *All presentations will be live and streamed. Those speakers who are not able to attend in person will present in real time via the internet from their location. If they are not able to speak at the scheduled time, arrangements will be made to record their presentation ahead of time to be played back at the live session.*
 - *Recorded presentations (labeled as #) for the Year in Review talks and the Special Lecture will be posted to the G-CAN website indefinitely for on-demand viewing.*
 - *There will not be physical posters; Abstracts selected for the Early Career Investigator Abstract Presentation Session will be live presentations.*
 - *Questions and responses on individual talks will be available in the chat window of each presentation during the live session.*
 - *All presentations will be recorded during the symposium as it is streamed and will remain accessible for viewing until December 31.*
-

MEETING AGENDA

Thursday, October 20, 2022: All times are Eastern Time Zone USA

- **#Special Lecture Available for Viewing**
Content to be available on demand only on the symposium website starting October 20. After October 23, the recorded talk will be moved to G-CAN website.
Gout Research Opportunities and Current Portfolio at National Institutes of Health – Heiyoung Park, National Institutes of Health, USA.
- Arrivals, check in to hotel
- Dinner on your own

LIVE, “FACE-TO-FACE” AND VIRTUAL SYMPOSIUM SCHEDULE

Friday October 21, 2022: All times are Eastern Time Zone USA

Presentations will be made either live from the meeting venue or virtually via Zoom if the speaker is not attending in person. Breakout sessions also will be live streamed so that those who are unable to travel can participate virtually.

7:00-8:00 Continental Breakfast for Meeting Attendees

8:00-10:00 Pre-Meeting “Speed Dating” /Meet the G-CAN Leadership Circle of Participants
3 minutes with each meeting participant: live only, not streamed

General Session 1

10:00-10:20 Welcome and Introduction to G-CAN, Recognition of Industry Sponsors
G-CAN President Robert Terkeltaub
Meeting Co-Chairs: Tuhina Neogi MD/PhD and Tony Merriman PhD

10:20-11:20 **#Crystal Arthropathy Clinical and Basic Research: The Year in Review**
Four 15-minute presentations (recordings to remain on the G-CAN website indefinitely)

- The Year in Review: Gout Basic Research – Korng Ea, Paris, France
- The Year in Review: Urate Biology 2022 – Eric Kelley, Morgantown, USA
- The Year in Review: Gout Clinical Research – Angelo Gaffo, Birmingham, USA
- The Year in Review: CPP and BCP Crystal Arthritis – Geraldine McCarthy, Dublin, Ireland

11:20-12:00 **G-CAN Presidential Emerging Career Investigator Award**
Moderators: Robert Terkeltaub, Lisa Stamp, Tristan Pascart
15-minute talks with 5-minute question period for each
Honorees:

- Fabio Becce, Lausanne, Switzerland
Lecture Title, TBD
- Jessica Bertrand, Magdeburg, Germany
Lecture Title: TBD

12:00-12:45 Lunch

12:45-14:15 **G-CAN Early Career Investigator Abstract Presentation Session**
Moderators: Pascal Richette, Sara Tedeschi
Five-minute live and pre-recorded presentations streamed during the live session. Q&A in chat window on the website.

PRESENTERS

1. **Florian A. Huber, MD** Zurich, Switzerland; *Jürg Hodler, Mentor*
Increased sensitivity and specificity of crystal detection in novel photon-counting-detector computed tomography compared to energy-integrating-detector computed tomography.
2. **Georgiana Cabău, MD, PhD** Cluj-Napoca, Romania; *Leo Joosten, Mentor*
Serum proteome profiling in gout and asymptomatic hyperuricemia reveals common and persistent inflammatory alterations.
3. **Antonella Adinofli, MD** Milan, Italy; *Georgios Filippou, Mentor*
Assessing relevant joints for monitoring CPPD diseases by imaging: A systematic literature review and a meta-analysis by the OMERACT Ultrasound – CPPD subgroup.
4. **Silvia Sirotti, MD** Milan, Italy; *Georgios Filippou; Mentor*
The OMERACT validation process of Ultrasound for assessment of CPPD: What's next? A scoring for CPPD extent!
5. **Tate Johnson, MD** Omaha, US; *Ted Mikuls, Mentor*
Poor serum urate control is a driver of excess cardiovascular risk in patients with gout.
6. **Medeea Badii** Cluj-Napoca, Romania; *Leo Joosten, Mentor*
Comparison of IL1 receptor antagonist and interferon inducible gene signatures of urate-treated PBMCs and primary cells from patients with hyperuricemia and gout.
7. **Tome Niessink** Enschede, The Netherlands; *Tim Jansen, Mentor*
Integrating Raman spectroscopy with polarized light microscopy leads to a higher certainty of diagnosis in crystallopathies.
8. **Giovanni Pacini, MD** Florence, Italy; *Georgios Filippou, Mentor*
Sonoanatomy of CPPD: correlation of ultrasonographic and anatomical findings in CPP Deposition. A study of the EULAR "anatomy for imaging" study group.
9. **Kaifeng Guo, PHD** Shanghai, China; *Haibing Chen, Mentor*
Serum metabolomics study of patients with asymptomatic hyperuricemia and gout using liquid chromatography–mass spectrometry.
10. **Dorsa Maher** Adelaide, Australia; *Michael Wiese, Mentor*
Urate-lowering therapy induced gout flares: a systematic review and network meta-analysis.
11. **Lesley Jackson, MD** Birmingham, US; *Maria Danila, Mentor*
Outpatient follow-up after an emergency department visit for acute gout flare

12. **Rachael Flood** Dublin, Ireland; *Ronan Mullen, Mentor*

Pulmonary vascular dysfunction occurs in association with hyperuricaemia: Assessment by a novel non-invasive measurement of pulmonary pulse wave transit time.

14:15-14:30 **Break**

14:30-15:30 **G-CAN Lifetime Achievement Award Lecture**

Moderators: Robert Terkeltaub, Nicola Dalbeth, Tony Merriman

10-minute talks with 5-minute question period

Honorees:

- Geraldine McCarthy, *Dublin, Ireland*
- Alexander So, *Lausanne, Switzerland*
- Thomas Bardin, *Paris, France and Ho Chi Minh City, Vietnam*
- Ann Rosenthal, *Milwaukee, USA*

15:30-15:50 **G-CAN 2022 Ralph H. Schumacher Memorial Early Career Investigator Award Lecture**

Moderators: Tuhina Neogi, Nicola Dalbeth

10-minute talk with 5-minute question period

Introduction by Tuhina Neogi (5 minutes)

AWARDEE:

Concepcion Sanchez San Diego, US; *David Gonzalez, Robert Terkeltaub, Mentors*

Sustained xanthine oxidase inhibitor (XOI) treat to target (T2T) urate lowering therapy (ULT) requires a tight inflammation protein interactome detected by quantitative multiplex serum proteomics.

15:50-17:00 **Breakout Sessions**

Focus Group Network Sessions: *Three separate, sessions live and via Zoom led by G-CAN members. All times are USA Eastern Time.*

1. **CPPD and BCP Crystal Arthropathies:** *Discussion Leaders: Ann Rosenthal (Chair), Geraldine McCarthy, Abhishek Abhishek, Sara Tedeschi, Jessica Bertrand*
2. **Genetics of Crystal Arthropathy:** *Discussion Leaders: Tony Merriman (Chair), Owen Woodward, Hirotaka Matsuo, Yongyong Shi*
3. **Imaging of Crystal Arthropathies:** *Discussion Leaders: Nicola Dalbeth (Chair), Savvas Nicolaou, Fabio Becce, Tristan Pascart, Georgios Filippou, Hyon Choi*

17:00-18:30 **Reception with wine and hors d'oeuvres for all general meeting attendees**

18:30 **Dinner on your own, for general meeting attendees**

19:00 *Board Dinner for 14 invitees, to honor award recipients, offsite
All other attendees, dinner on your own*

Saturday, October 22, 2022: All times are Eastern Time Zone USA

7:00-8:00 **Continental Breakfast and Breakfast Mentoring Network Breakout Session:**
Mentor Leaders: Tuhina Neogi, Jas Singh, Robert Terkeltaub, Tony Merriman, Hyon Choi
Mentee Discussion Leaders: Youssef Roman and Chio Yokose

General Session 2

8:00-8:50 **CPP and BCP Crystal Arthropathy Mini-symposium**
Moderators: Ann Rosenthal, Geraldine McCarthy
Lightning talks, 10 minutes each maximum, 10 minutes for questions in this session

- New mechanisms implicated in pathologic cartilage calcification – *Sonia Nasi, Lausanne, Switzerland*
- G-CAN nomenclature of CPPD project – *Georgios Filippou, Florence, Italy*
- ACR/EULAR classification update – *Abhishek Abhishek, Nottingham, UK*
- Outcome measures in CPPD – *Sara Tedeschi, Boston, USA*

8:50-9:10 **Featured Lecture**
15-minute talk, 5 minutes for questions

New model of arthritis due to BCP crystals – *Leo Joosten, Nijmegen, Netherlands*

9:10-9:35 **G-CAN Gold Medal Investigator Award Lecture**
Moderators: Robert Terkeltaub, Tuhina Neogi, Tony Merriman
20-minute talk with 5-minute question period

Honoree: Hyon Choi, MGH, Harvard Medical School, Boston, USA

9:35-10:00 **Break**

10:00-11:25 **G-CAN Early Career Investigator SPARK* Session**
Seven Oral Presentations 10 minutes each, with 2 minutes for questions
Moderators: Fred Lioté, Nicola Dalbeth

SPARK PRESENTERS

1. **Sandy ElSayed, PhD** Irvine, US; *Khaled Elsaid Mentor*
Protein Phosphatase-2A regulates xanthine oxidase activity in macrophages and influx of inflammatory monocytes in a murine gout model.
2. **Isidoro Cobo, PhD** San Diego, US; *Christopher Glass, Mentor*
Epigenetic activation of the lysosomal biogenesis program by collaborative binding with TFEB is required for appropriate response of macrophages to monosodium urate crystals.

3. **Edoardo Ciopollotta, MD** Nottingham, UK; *Abhishek Abhishek, Mentor*
Risk of venous thromboembolism after gout flares.
4. **Orsolya Gaal, PhD** Cluj-Napoca, Romania; *Leo Joosten, Mentor*
Gout-associated SNP at the IL1RN-IL1F10 region is functionally linked to altered cytokine production in PBMCs of patients with gout and controls.
5. **Panagiota Drivelegka, MD, PhD** Gothenburg, Sweden: *Lennart Jacobsson, Mentor*
Allopurinol use and risk of acute coronary syndrome in patients with incident gout: a population-based study in Sweden.
6. **Liew, Jean, MD** Boston, US; *Tuhina Neogi, Mentor*
The association of intra-articular mineralization on CT and radiographic chondrocalcinosis with location-specific cartilage loss on MRI in knee OA: The Multicenter Osteoarthritis Study.
7. **Leanne Chen, MD** Auckland, NZ; *Nicola Dalbeth, Mentor*
Changes in tophus composition during urate-lowering therapy: A dual energy CT study.

11:25-11:45 Lunch (*pick up box lunch and return to meeting room by 11:45 for program*)

11:45-12:30 Listen (with box lunch) to “The Great Debate”

Moderators: David Mount, Hyon Choi

Fifteen minutes for each presenter, followed by 5 minutes for each rebuttal and 5 minutes for audience vote.

Proposition: “Urate biology is a productive therapy target to preserve renal function”

- **Yes:** Claudio Borghi
- **No:** Tuhina Neogi
- Rebuttals
- Final audience vote

12:30-14:00 Gout and Hyperuricemia Mini-symposium, Part 1:

Moderators: Lisa Stamp, Pascal Richette

Lightning talks, 10 minutes each maximum, 3 minutes for questions after each talk

- Gene-environmental interaction in gout – *Natalie McCormick, Boston, USA*
- Gouty inflammation Topic TBD – *Tania Crişan, Cluj-Napoca, Romania*
- Gout Mega-GWAS results – *Megan Leask, Birmingham, USA*
- Does target-to-treat serum urate approach provide cardiovascular benefits in gout patients? – *Kazuki Yoshida, Boston, USA*
- Personalized Medicine in Gout Care – *Chio Yokose, Boston, USA*
- Racial disparity in gout disease burden and care – *Mika Thompson, Honolulu, USA*
- Gout in people diagnosed with COVID-19 – *Kanon Jatuworapruk, Bangkok, Thailand*

14:00-14:15 Break

14:15--14:55 Hyperuricemia and Gout Genomics, and Hyperuricemia-Independent Gout Phenotypes

Moderators: Nicola Dalbeth, Tuhina Neogi

Two 15-minute talks followed by 10-minute question and answer period in this session

- Identification of new genes involved in gout –*Tony Merriman*
- Erosive gouty arthritis without hyperuricemia: An experiment of nature informs a new approach to studying incident gout and disease phenotypes – *Robert Terkeltaub, La Jolla, USA*

14:55-16:25 Gout and Hyperuricemia Mini-symposium, Part 2:

Moderators: Nicola Dalbeth, Tuhina Neogi

Lightning talks: 10 minutes each maximum, 5 minutes questions after each talk in this session

- Adiposity Genes and Gout – *Hanieh Yaghootkar, Exeter, UK*
- Gout and ULT Topic – *Nicola Dalbeth, Auckland, New Zealand*
- Gout and Metabolism – *Huiyong Yin, Shanghai, China*
- Natural IgM antibodies and gout – *Konstantin Neumann, Hannover, Germany*
- Insulin signaling and urate transport – *David Mount, Boston, USA*
- Comorbidities in gout: causality or epiphenomena – *Nick Sumpter, Birmingham, USA*

16:25 Concluding Comments and Adjourn Meeting

Tony Merriman, Tuhina Neogi, Robert Terkeltaub

18:00-20:45 Group Dinner for All Meeting Attendees*

[Landini Brothers](#), 115 King St, Alexandria, VA

21:00 Post-Meeting Karaoke Party

at Landini Brothers

***Requires advance reservation and fee of \$75, sign up when registering for conference**

**SPARK – Select Presentations of Abstracts Keynotes, formerly called Emerging Career Investigator Oral presenters*

Sunday Oct 23: Checkout/Departures

Thank you to G-CAN's 2021 industry supporters!

Roundtable Sponsor and Sponsor of Young Investigator Session



Round Table Sponsor



Affiliate Sponsor

