

World Immune Regulation Meeting XVIII

13 - 16 March 2024 | Davos, Switzerland

Final Program

SIAP

WIR 

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Welcome to the

18th World Immune Regulation Meeting

Great to have you here!



#WIRM



Welcome Message from the Chairman & Co-Chairs

Dear WIRM Friends and Colleagues,

A full scientific program: On behalf of the Swiss Institute of Allergy and Asthma Research (SIAF), University of Zurich, it is a great pleasure to welcome you to the World Immune Regulation Meeting XVIII on „Immune Activation, Effector Functions and Immune Tolerance with a special focus on Allergy and Autoimmunity“. As it is becoming a tradition, the contribution of the participants to the development of the program by sending us their suggestions, has been essential to achieve our goal. This year we have 49 plenary talks. 71 abstracts will be presented in 12 workshops and 61

abstracts in 9 poster sessions. As every year, workshop presentations will be additionally displayed in the poster sessions to facilitate further discussions.

Meet the experts:

The traditional "Meet the Expert Session" enables open discussions with world's top scientific figures on scientific achievements and career development. Our expert to meet the participants this year is Prof. David Artis from Weill Cornell Medicine, USA. He is the Director of the Jill Roberts Institute for Research in Inflammatory Bowel Disease and the Friedman Center for Nutrition and Inflammation in New York.

The format is designed to facilitate informal discussions, allowing participants to present their questions and gain new insights. Another tradition of WIRMs, the "Special Lecture" of this year will be given by Dr. Adrian Glauser from the ETH Zürich, Department of Physics. He will talk about "The Cosmological Revolution with the James Webb Space Telescope".

Special thanks to the sponsors: If you have ever organized such meetings, you know very well that it is impossible to organize a successful meeting without the help of sponsors. Our sponsors are listed on page 5 of this program book. Please visit their booths from the first day on and use the opportunity to discuss new developments with the experts of the company sponsors during the long working hours of WIRM from 08:30 until 23:00. In addition, I would like to thank our main sponsor journals, Nature Reviews Immunology, US Nature Reviews Immunology, Immunity Cell Press, Science Translational Medicine AAAS, Allergy Journal and the Reviews, Swiss Young Immunologists Society for contributing to the program and providing best presentation awards. I also thank BioLegend for the generous support for the workshop prizes and the gala dinner. We are proud to give 25 travel grants this year. Thanks very much for the generous support of the European Federation of Immunological Societies and Swiss Society for Allergology and Immunology for the travel grants.

Social events and activities: As at other WIRMs, we will come together for dip & discuss poster sessions with dinner and drinks providing a relaxing and stimulatory atmosphere for scientific exchange for young researchers to meet senior scientists. Lunch breaks will allow to digest attended symposia, while enjoying winter sports and landscape.

The Gala Dinner will be on Saturday, on the 16 March 2024, in the Main Hall together with the band „The BPM“. Previous Gala Dinner participants know very well that we will have hours of dance with great professional musicians.

Davos is a winter sports paradise for snowboard and skiing enthusiasts from all over the world. The region provides 57 mountain transport facilities and around 300 km of well-prepared slopes. In addition, cross country skiing, ice sports, wonderful hiking routes through the beautiful countryside are all possibilities offered to you in Davos. For the participants, who are not skiing, we particularly suggest the hiking route „Hohe Promenade“ or a tour around the Davos lake. The east side of the walking path in the forest is amazing and full of squirrels. They will wake up with a little bit of sunshine and say hello to you. In addition, you can visit the Kirchner Museum, Medicine Museum, Wintersports Museum and Local History Museum. Being inspired by the Davos Spirit is an essential motto of WIRM, which is "work very hard together with harmony, openly discuss with transparency, come together socially and scientifically to improve the state of the World in your area. I would like to inform you that the inspiration of Davos has been confirmed about a century ago when Sir Arthur Conan Doyle wrote some Sherlock Holmes stories, Robert Louis Stevenson wrote „Treasure Island“, Thomas Mann wrote „Magic Mountain“ and later Erich von Däniken wrote „Chariots of the Gods“ in Davos. Davos is hosting of many worldwide front research institutions in their area, the AO Research Institute, Institute for Snow and Avalanche Research, Christine Kühne Center for Allergy Research and Education, Global Risk Forum, Physical Meteorological Observatory and our SIAF that have contributed several thousands of articles, several hundreds of inventions, several hundreds of PhD titles and habilitations, and more than 100'000 citations..

Teamwork for success and continuation: The organizing committee promises to present you a great scientific program, a surprising social program and a warm smile. I would like to acknowledge the enormous enthusiasm of SIAF group leaders Mübecel Akdis, Katja Baerenfaller, Milena Sokolowska, Claudio Rhyner and Willem van de Veen, congress organizers Anja Schultz and Regina Maier, abstract manager Laura Bürgi, WIRM IT managers Claudio Rhyner and Patrick Westermann, WIRM technology manager Costel Agache, all of the other SIAF co-workers and "Davos Congress", who have worked during the past year to ensure that our meeting has an exceptional impact on all who attend.

With best wishes for WIRM XVIII and many future WIRMs.

Cezmi A. Akdis
Chair WIRM

Milena Sokolowska
Co-Chair WIRM

Willem van de Veen
Co-Chair WIRM

Organizing Committee

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Regina Maier
Anita Dreher
Anja Heider
Manal Bel imam
Monika Wart
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Urszula Radzikowska
Carina Beha
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Paolo D'Avino
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Özge Ardicli
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Katja Baerenfaller
Claudio Rhyner
Milena Sokolowska
Willem van de Veen

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Costel Agache
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Patrick Westermann
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Nino Stocker
Damir Zhakparov
Minglin Yang
Stephen Skolnick
Lopamudra Chatterjee
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Roya Kianfar
Xindong Sun

Posters

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Milena Sokolowska
Hang Du
Dagmar Duijzer
Jenne Meinema
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Davos Congress

Larissa Rutz
Daniela Heldstab



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Platinum

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Gold

Akoya Biosciences, Autoimmun Diagnostica, Becton Dickinson, Bucher Biotec, Brunshwig, CTL Europe, European Federation of Immunological Societies (EFIS-EJI), InvivoGen, Lonza, Lunaphore, Mabtech, Merck, Olink, Proteintech, Revvity, RUWAG, Swiss Society for Allergology and Immunology (SSAI), Standard BioTools, Zeiss

Silver

Air Davos, Davos Congress, Eau-là-là, Kirchner Museum, Lufthansa Group, Microsynth, OMPharma, Swiss Young Immunologists Society (SYIS), Weber Bäckerei-Konditorei

Best Presentation Award

Allergy Journal, Immunity A Cell Press journal, Nature Reviews Immunology, Nature Immunology, Science Translational Medicine AAAS, Swiss Young Immunologists Society (SYIS)

Platinum Sponsors

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Poster Prize Sponsors & Media Partners



Meeting Information

Admission to Sessions

Admission to the sessions is reserved for meeting registrants and registered members of the press only. Guests and non-registered exhibitors will not be admitted to any scientific session.

Award Ceremonies

Thursday, 14 March 2024 17:00 (*Room: Davos 1*)
Friday, 15 March 2024 17:00 (*Room: Davos 1*)
Saturday, 16 March 2024 12:00 (*Room: Davos 1*)
Saturday, 16 March 2024 15:00 (*Workshop rooms*)

Best Workshop Presentation Award

BioLegend Best Presentation Awards will be distributed to the best presenter of each of the 12 workshops to be selected by the chair persons.



Children and Guests

We kindly ask delegates to refrain from taking children, spouses or guests to any educational session. Registered accompanying persons are welcome to visit the booth area and poster sessions. Children under the age of 18 are not allowed.

Social Events

The combination of idyllic alpine landscape, urban atmosphere and the wide range of service, infrastructure, fine food and activities is unique. Please visit us at the registration desk to get interesting information about possible activities in Davos.

Jobcenter www.wirm.ch

You will have ideal opportunities to apply for open positions or to find highly motivated fellows. The entire service is free of charge. If you would like to advertise your job offer, please submit your advertisement as PDF file to wirminfo@wirm.ch.

If you are looking for an open position, browse our job offers at www.wirm.ch/jobcenter.html.

If you would like to reserve a room for an interview, please ask our staff at the registration desk.

Lost and Found

Should you have lost something, please contact the registration desk.

Meeting Room Policy

No video and audio equipment, cameras or any other type of recording device will be allowed during all scientific sessions.

No Smoking

Smoking is prohibited in the entire Congress Center and during all sessions and events.



Poster Presenter Information

Poster presenters are asked to mount their posters until 10:00 on the presenting day and to remove the posters until 23:00 the same evening. Adhesive stripes will be available at the registration desk. A poster overview, including poster presenter, poster number, session and room can be found on the last pages of this book.

Poster Walk Information

In order to increase scientific discussions, a poster walk will take place at the beginning of each poster session. Selected chair persons and poster presenters will meet in front of the first poster of their session at 20:00. Each poster should be explained within two minutes by the poster presenter, followed by one minute discussion. There won't be a poster walk for the workshop posters.

Best Presentation Awards

Best Presentation Awards (for Posters) will be sponsored by Allergy, Nature reviews immunology, Nature immunology, Swiss Young Immunologists Society, Immunity Cell Press and Science Translational Medicine AAAS. The prizes will be one year free subscription to one of the journals.

The winners will be selected by the chair persons according to the scientific quality and announced during the award ceremonies.

Thanks to the sponsors:



Registration Desk

If you have questions concerning WIRM, our registration team will be happy to help you at the registration desk:

Opening hours:

Tuesday, 12 March 2024	15:00 - 20:00
Wednesday, 13 March 2024	07:30 - 19:15
Thursday, 14 March 2024	08:00 - 19:15
Friday, 15 March 2024	08:00 - 19:15
Saturday, 16 March 2024	08:00 - 17:00

Speaker's Ready Room

The speaker's ready room (*Room: Dischma*) serves for the speakers to check their presentations and make final changes.

Speaker's Presentation Upload

All speakers are kindly asked to bring their presentation on a memory stick to the "Presentation Upload Desk" until 19:00h the evening before their talk or at the latest 30 minutes before their talk.

Opening hours: daily 08:00 – 19:00

Travel Grants

10 travel grants of CHF 300.- are sponsored by WIRM.



10 travel grants of EUR 500.- are sponsored by the European Federation of Immunological Societies (EFIS) and the European Journal of Immunology (EJI).



5 travel grants of CHF 750.- are sponsored by the Swiss Society of Allergology and Immunology (SSAI)



WIRM Gala Dinner

Dinner & Dance Gala Night with the band "thebpm".

Saturday, 16 March 2024

19:30 at the Plenary Hall "Davos 1" of the Davos Congress Center.

After the last talk of the scientific program on Saturday, 16 March 2024, the plenary hall will change into a ballroom for our Dinner & Dance Gala Night. A delicious menu will be served followed by live music. Another great opportunity to meet the experts, colleagues and to have fun.

Feel free to register for this entertaining evening at the registration desk until Friday, 15 March 2024, 12:00 noon.

This evening is sponsored by BioLegend.



WLAN

Free WLAN will be provided in the premises of the Congress Center.

Network: Davos Congress

Help the climate

Each time we take a flight, drive a car or heat our homes, CO₂ is added into the atmosphere. Take the opportunity to reduce CO₂, visit www.climatecare.org or websites of similar organizations. Reduce your personal CO₂ emission and pay your CO₂ offsets.



What to do in Davos

Premium Card

One card, many benefits

Anyone who spends at least one night in a commercially rented establishment such as a hotel, holiday apartment or group accommodation in Davos Klosters will receive the new Davos Klosters Premium Card. This guest card offers numerous advantages and discounts during your stay.



Outdoor Activities

Ski & Snowboard

Are you a peak performer? Then the days on the magical mountains of Davos Klosters will be over all too soon for you. Because you can choose between 2 snow sports resorts here: The Jakobshorn and the Parsenn/Got-schna resort.

Snow Sports Schools

Regardless of whether you are a beginner or an advanced skier, snowboarder or cross-country skier, the numerous snow sports training centres in Davos Klosters offer the best trained instructors, who will ensure that you are safe, successful and having fun in snow.

Cross-Country Skiing

The world elite among the cross-country skiers converges at the starting point every year to commemorate the Davos Nordic. Cross-country skiing at the FIS racing tracks in Flüelatal, where even Dario Cologna & Co competed for world cup points. Or you can leave your imprint along the romantic tributary valleys. You haven't had enough? Get to the night cross-country ski-run. And the best is: Cross-country skiing in Davos is free!

Ice Sports

Davos Klosters is an ice sports Eldorado – for active participants and spectators alike. This is guaranteed by Europe's largest natural ice rink in Davos, as well as further ice rinks across the entire region, which can be used for ice skating, speed skating, playing ice hockey, curling and Bavarian curling.

In addition to this, with the Vaillant Arena Davos also boasts one of the most stunning ice hockey stadia anywhere, with the Hockey Club Davos (HCD) one of the most popular ice hockey clubs in Switzerland, and with the Spengler Cup the most richly traditional ice hockey tournament in the world.

Winter Walks

Do you like to stand with both feet on firm ground? Then we recommend to you our winter footpaths in Davos (111km). You can take an easy stroll or a pacy walk along these snow-cleared footpaths through the snowy landscape.

Playing ice mini golf by Lake Davos

With hockey stick and puck, it's onto the ice. But not for a game of hockey, but for ice mini-golf. If you would like to try this family sport for yourself, there is an ice mini-golf course near Lake Davos throughout the winter.

Transportation

Rhaetian Railway

Unlimited travel in 2nd class on the line Klosters Dorf – Davos – Filisur with your guest card

Local bus Davos

Unlimited travel on the local bus lines (except buses to all side valleys (Dischma, Sertig, Clavadel, Monstein, Wiesen))

Reduced Ski Rental

Paarsenn Sports, which is located right next to the Parsenn Cable Car Station in Davos Dorf and at the train station Davos Platz, offer to all WIRM participants, speakers, exhibitor staff and registered accompanying persons a reduction for the renting and storage of wintersports equipment.



Paragliding

Fulfil the human dream of flying: As a passenger of a tandem pilot, you will safely float amidst the mountains of Davos Klosters.



Indoor Activities - Sport

Tennis, Squash, Badminton, Climbing

The Färbi sports hall in Davos offers:

- 4 indoor tennis courts (Reboundace surface)
- 5 outdoor tennis courts (sand courts)
- 2 squash courts
- 2 badminton courts
- Climbing wall
- Sports restaurant
- Tennis school (individual lessons, group courses and competition training dipl. trainer STV)
- Bar & club room with television room
- Sports shop & relaxation service
- Changing facilities & showers

Davos Fitness

The modern fitness center in the heart of Davos. It offers endurance training, strength training, group fitness and medical massages. Check it out: davosfitness.ch.



Wellness and Water Park Eau-Là-Là

Thanks to the "eau-là-là" fun pool, the Davos indoor swimming pool is a year-round oasis for big and small water sports-lovers, pleasure-seekers and the health conscious alike.

Indoor Activities - Entertainment

BierVision Monstein

In 2001, in Monstein, the highest brewery in Switzerland and the first demonstration brewery in the Canton Grisons, went into production. It is housed in the former village dairy, a building that was erected 100 years ago. BierVision Monstein AG uses crystal clear spring water, Swiss hops and aromatic malt to brew Monstein beer specialities in accordance with a richly traditional recipe. Monstein is a picturesque hamlet located 1625 metres above sea level. The typical Walser houses and stilts lend the village with its two churches and two guest houses an unforgettable charm.

Every Friday from 16-19 unguided tours and cosy get-togethers with the brewer, ideally suited for individual guests.

Bowling, Billiard, Darts

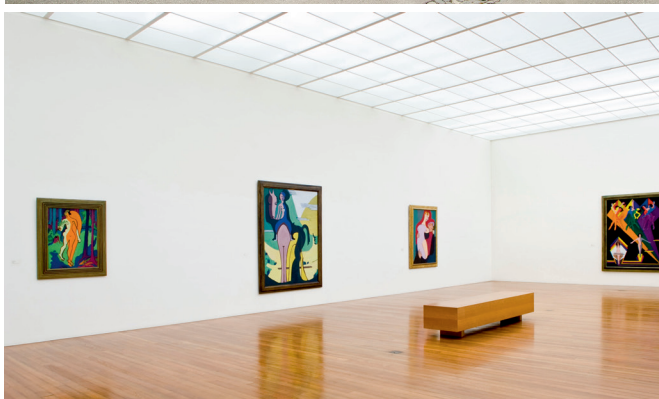
(Promenade 101, right opposite to the Congress Center, open daily 7:30-13:00)

4 bowling lanes, billiard tables, darts, table football and ping-pong will guarantee a lot of fun.

Adventure Room - do you manage to get out?

(Promenade 106, 7270 Davos Platz)

Fascinating real life game in Davos! Imprisoned in mysterious rooms! Will you be able to escape, before the countdown runs out? Experience a unique adventure! The group of players will be locked up: the adventure room is completely their own, uncovering hiding places and secret doors and find the meaning behind mysterious objects, devices, to get the clues to escape, before the countdown runs out!



Indoor Activities – Art & Culture



Kirchner Museum

(Ernst Ludwig Kirchner Platz, 7270 Davos Platz, Tue–Sun 11-18, CHF 8.- instead of CHF 12.- with reduction voucher)

Ernst Ludwig Kirchner lived in Davos from 1918 until his death. His comprehensive work was pioneering for German Expressionism. The Kirchner Museum Davos opened in 1992 and boasts the largest collection of his works in the world.

Current exhibition:

Masters of printing technology.

Guided tours: Sunday & Tuesday, at 16:00, in German, Audio guides in E, F, I and G, CHF 5.- plus entry fee per person.

Museum of local history

(Museumstrasse 1, 7260 Davos Dorf, Sun-Wed 15-17, CHF 10.-, 20% reduction with Premium Card)

The museum of local history in Davos endeavours to convey a living image of history, early everyday life, traditions and crafts from Davos. The rich collection of objects and documents is presented in the large Jenatschhaus. As an old patrician house and historic building, it also tells many stories itself.

Wintersport Museum

(Promenade 43, 7270 Davos Platz, Tue&Thu 16:30-18:30, free admission, donations are welcome)

The museum is perfectly suited for exhibiting the rich collection of valuable winter sports equipment and documents from the foundation of the family of Jürg Kaufmann, Davos due to its central location. In the winter sports museum, visitors can view impressive exhibits (sledges, bob sleighs, skis, skates, curling equipment, etc.) from the beginning of winter sports right through to the present day.

Museum of medicine

(Promenade 43, 7270 Davos Platz, Tue&Thu 17-19h, free admission)

The foundation for the documentation of medical scientific development in Davos has set itself the objective of collecting and recording devices, x-ray images and files that document the activities of the physicians and researchers in Davos. The collection at the museum of medicine in Davos is an expansion and addition to the documentation library. It is accessible to all persons interested in historical, social, scientific and medicinal information for study purposes.

Where to eat & drink in Davos

These are just a few recommended restaurants/bars, which are located in a walking distance from the Congress Centre.

Gastronomy



Café Weber

(opposite of Parsenn valley station at Promenade 148 daily from 6:00-20:00)
Bakery, snacks, lunch menus, dinner, coffee and cakes.

Restaurant Stau

(15 minutes walk from Congress Centre at Promenade 45, daily 9:30-22:00)
Authentic kitchen, lunch menus, fresh patisserie, baguettes.

da Elio

(opposite of Congress Centre at Promenade 95, daily 10-14:00 & 17:00-22:00)
Good tasting italian food, Pizza, seasonal specialities.

Extrablatt

(right next to Congress Centre at Promenade 90, Tue-Sat 11:30-14:00, 18:00-22:00)
Fresh-market experience rotisserie, house-made pasta and light daily menus.

Kaffeeklatsch

(15 minutes walk from Congress Centre at Promenade 38, daily 07:30-19:00)
A definite must for coffeelovers. Homemade hot and cold food specialties created from fresh regional products.

Lokal

(5 minutes walk from Congress Centre at Promenade 100, Wed-Sun 12:00-23:00)
Local and homemade dishes and drinks, vegetarian and vegan options.

Pulsa Restaurant @ Hotel Grischa

(20 minutes walk from Congress Centre, opposite of train station Davos Platz, daily lunch 11:30-14:00h and dinner 18-22:00h)
A relaxed bistro. The concept is simple and the atmosphere easy and cozy. Modern, creative, seasonal and an uncomplicated personal service. Sushi specialities are served from Fri-Tue.

Sessions @ Hard Rock Hotel Davos

(10 minutes walk from Congress Centre at Tobelmuehlestrasse 2, daily 12:00-14:00 and 18:00-22:00) - Snacks, burgers, soups & salads, vegetarian & vegan food

Nightlife - Bars & Clubs

Chämi Bar

(5 minutes walk from Congress Centre at Promenade 83, Tue-Sun 18:00-late)
Wide range of drinks, small menu, special choice of whisky.

Ex Bar

(10 minutes walk from Congress Centre at Promenade 63, Mon-Sat from 17:00-late)
The (in)famous place to be in the heart of Davos. Try the chicken wings at 4 in the morning after a hard party night.

Ochsen 2 Bar

(10 minutes walk from Congress Centre at Talstrasse 12, Mon-Sat 17:00-open end)
How about a cold beer, a glass of wine or a fruity drink? Whether for an aperitif or a nightcap - stop by.

Parsenn Gada

(15 minutes walk from Congress Centre at Promenade 154, opposite of the Parsenn valley station, Wed- Sun 15:00-22:00)
The bar directly opposite of the Parsenn cable car station. Warm food, snacks and drinks.

Piano Bar Tonic @ Hotel Europe

(10 minutes walk from Congress Centre, in the Hotel Europe at Promenade 63, Tue-Sat from 21:00-3:00)
Timeless and elegant. Daily Piano live music.

Pulsa Bar & Lounge @ Hotel Grischa

(20 minutes walk from Congress Centre, opposite of train station Davos Platz, daily 15:00-22:00)
Cozy lounge with fireplace. Modern bar for a coffee in the morning or to enjoy the evening.



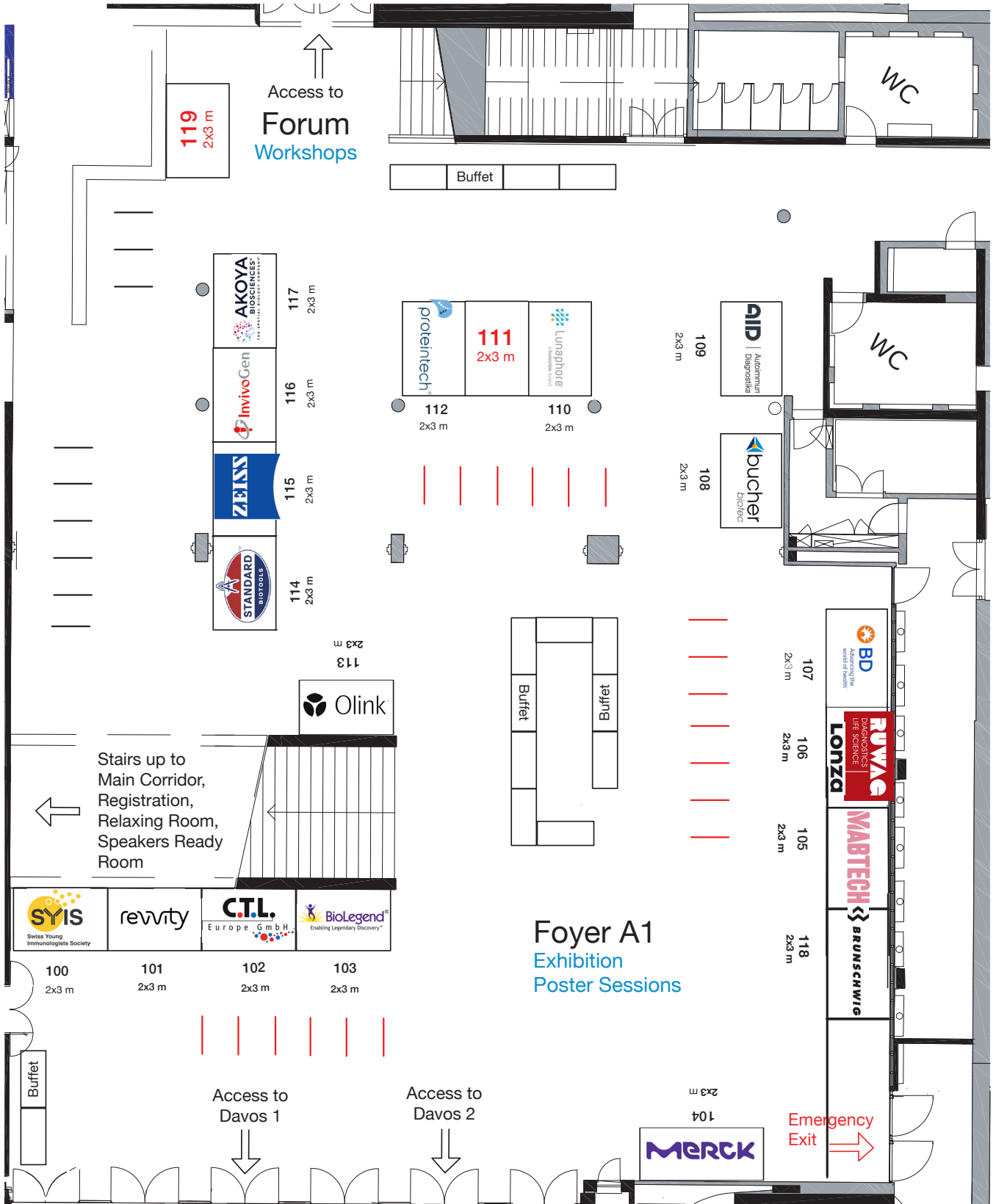
Map

Davos Platz & Davos Dorf



Map

Level: Foyer A1



Davos 1
 Plenary Sessions
 Workshops
 Award Ceremonies
 Dinner & Dance

Davos 2
 Workshops



Main Program 1. Day - Wednesday, 13 March 2024 - Room: Davos 1

Session 1		Innate lymphoid cells: development, differentiation, dynamics
<i>Chairs: Cezmi A. Akdis, Onur Boyman</i>		
08:30 - 09:00	S01	James P. Di Santo Innate lymphoid cells: development, differentiation, dynamics
09:00 - 09:30	S02	Nicole Joller The co-inhibitory receptor TIGIT promotes tissue protective function
09:30 - 09:45	S03	Philippe Krebs Molecular regulation of innate lymphoid cell type 2 in inflammatory lung disease
09:45 - 10:00	S04	Clara Heider Engineering human antigen-presenting cells for tolerogenic gene therapy in humanised mice
09:45 - 10:00	S05	Ujjwal Neogi Plasma microenvironment and monocyte dysfunction in immunometabolically impaired treated HIV infection
10:00 - 10:30	<i>Coffee break and time to visit the booths of our exhibitors</i>	
Session 2		T and B cell memory
<i>Chairs: Willem van de Veen, Cevdet Özdemir</i>		
10:30 - 11:00	S06	Onur Boyman Beneficial and harmful effects of human immunological memory to acute infection
11:00 - 11:30	S07	Bruno Silva-Santos Role of microRNAs in CD4 T cell subset differentiation upon inflammation
11:30 - 11:45	S08	Michelle Linterman Rejuvenation of the germinal center reaction and affinity maturation following depletion of T follicular helper cells
11:45 - 12:00	S09	Jens Geginat Regulatory T-cells in multiple sclerosis are activated by Epstein-Barr Virus and produce IL-10 in the central nervous system
11:45 - 12:00	S10	Anna Vallduriola Martin Stable neonatal natural Bregs contribute to immune regulation in adulthood
12:30 - 13:30	StandardBio Tools Lunch Symposium (Room: Schwarzhorn, Lunch provided to participants) Melissa Klug Advancing spatial biology assays with rapid, high-plex whole slide imaging	
13:30 - 14:30	<i>Lunch break</i>	
14:30 - 15:30	Workshops 1 - 3 (please see workshop program)	
15:30 - 16:00	<i>Coffee break and time to visit the booths of our exhibitors</i>	
16:00 - 17:00	Meet the expert David Artis Lessons learned: exploring the immune system and beyond	
17:00 - 17:15	Cezmi A. Akdis Opening Address	
Session 3		Infection and immunity
<i>Chairs: Kari Nadeau, Jürgen Schwarze</i>		
17:15 - 17:45	S11	Hedda Wardemann Mechanisms of generating protective immunity to Plasmodium falciparum
17:45 - 18:15	S12	Oliver Bannard Selection events shaping serum antibody responses to infection
18:15 - 18:30	S13	Melanie Prout Visceral fat expansion and Glucose tolerance in aging male mice are differentially regulated by type 2 cytokines and eosinophils induced by Helminth infection
18:30 - 18:45	S14	Urszula Radzikowska Metabolic regulation of epithelial RIG-I signaling in viral exacerbations of asthma
18:45 - 19:00	Landammann Philipp Wilhelm Welcome Address by the City Major of Davos	
19:00 - 22:00	<i>Dip & Discuss Dinner Buffet</i>	
20:00	Poster Sessions 1 - 3 , Room: Foyer A1 (please see poster program) Poster presentations of workshops 1 - 3 , Room: Main Corridor	

Main Program 2. Day - Thursday, 14 March 2024 - Room: Davos 1

Session 4		The new nomenclature for allergy and hypersensitivity reactions
<i>Chairs: Ruby Pawankar, Thomas Eiwegger</i>		
08:30 - 09:00	S15	Marek Jutel New nomenclature of allergic diseases and hypersensitivity reactions
09:00 - 09:30	S16	Ioana Agache The new nomenclature proposal for allergy and autoimmunity
09:30 - 10:00	S17	Cezmi A. Akdis Epithelial Barrier Theory: Novel evidence on mechanisms of development of allergic and autoimmune diseases
10:00 - 10:30	<i>Coffee break and time to visit the booths of our exhibitors</i>	
Session 5		Climate change, immune and inflammatory response
<i>Chairs: Maria Jose Torres, Marek Jutel</i>		
10:30 - 11:00	S18	Kari Nadeau Climate change and environment crisis
11:00 - 11:30	S19	Ruby Pawankar Climate change, planetary health and One health- the interconnectedness and need for action
11:30 - 11:45	S20	Yasutaka Mitamura Unveiling the Impact of Climate Change: Elevated CO2 influences skin epithelial barriers and the development of atopic dermatitis
11:45 - 12:00	S21	Katja Baerenfaller Wastewater: from removal of nanoparticles to epidemiological monitoring
12:00 - 13:00	Akoya Biosciences Lunch Symposium (Room: Schwarzhorn, Lunch bags provided) Alessio Colombo Accelerate Your Breakthroughs: Unleashing the Power of Single-Cell, Whole-Slide Spatial Phenotyping	
13:00 - 14:30	<i>Lunch break</i>	
14:30 - 15:30	Workshops 4 - 6 (please see workshop program)	
15:30 - 16:00	<i>Coffee break and time to visit the booths of our exhibitors</i>	
16:00 - 17:00	Special Lecture Adrian Glauser The Cosmological Revolution with the James Webb Space Telescope	
17:00 - 17:10	Award Ceremony for poster & workshop prizes of day 1	
Session 6		Microbiome interaction with the immune system and tissue cells
<i>Chairs: Mohamed Shamji, Johan Garssen</i>		
17:15 - 17:45	S22	Mahesh S. Desai Microbiome, immune system and epithelial barriers
17:45 - 18:15	S23	David Sancho Microbial metabolites in progression of atherosclerosis
18:15 - 18:30	S24	Ignacio Gonzalez Perez Neonatal eosinophils shape the intestinal microbial composition to promote immune homeostasis and commensalism
18:30 - 18:45	S25	Monika Brunner-Weinzierl Bifidobacterium infantis – more than a placeholder in the neonatal gut?
18:45 - 22:00	<i>Dip & Discuss Dinner Buffet</i>	
20:00	Poster Sessions 4 - 6 , Room: Foyer A1 (please see poster program) Poster presentations of workshops 4 - 6 , Room: Main Corridor	

Main Program 3. Day - Friday, 15 March 2024 - Room: Davos 1

Session 7		Innate lymphoid cells
<i>Chairs Dan Littman, Benjamin Hurrell</i>		
08:30 - 09:00	S26	David Artis Regulation of barrier immunity
09:00 - 09:30	S27	Mohamed Shamji Innate lymphoid cells in allergy and immunotherapy
09:30 - 09:45	S28	Dominic Caspar Multi-omics analysis of the immune system reveals circadian signature
09:45 - 10:00	S29	Evelyn Hyde Innate IL-13 in skin is necessary for the differentiation of Th2 effector cells that mediate allergic inflammation
10:00 - 10:30	<i>Coffee break and time to visit the booths of our exhibitors</i>	
Session 8		Metabolism and immunity
<i>Chairs: Milena Sokolowska, Fatima Ferreira-Briza</i>		
10:30 - 11:00	S30	Pedro Romero Steering T cell differentiation via metabolic modulation
11:00 - 11:30	S31	Claudia Mauri Metabolic regulation of B cell subsets and plasma cell differentiation
11:30 - 12:00	S32	Sarah Teichmann Human immunity one cell at a time
12:00 - 12:15	S33	Markus Kleinewietfeld Hypoxia-Induced immunometabolic reprogramming promotes dysfunctional Tregs
12:15 - 15:30	<i>Lunch break</i>	
15:30 - 16:30	Workshops 7 - 9 (please see workshop program)	
16:30 - 17:00	<i>Coffee break and time to visit the booths of our exhibitors</i>	
17:00 - 17:10	Award Ceremony for poster & workshop prizes of day 2	
Session 9		Epithelial barriers
<i>Chairs: Christoph Messner, Yasutaka Mitamura</i>		
17:15 - 17:45	S34	Arthur Kaser The unfolded protein response in intestinal homeostasis and inflammation
17:45 - 18:15	S35	Dan Littman Towards a logic for microbiota-directed immune system programming
18:15 - 18:30	S36	Claire Meehan Intestinal permeability – a new target for autoimmune diseases prevention and therapy
18:30 - 18:45	S37	Yasmin Thanavala Alternative Tobacco Products: Are issues of proposed benefits all just smoke and mirrors?
18:45 - 22:00	<i>Dip & Discuss Dinner Buffet</i>	
20:00	Poster Sessions 7 - 9 , Room: Foyer A1 (please see poster program) Poster presentations of workshops 7 - 12 , Room: Main Corridor	

Main Program 4. Day - Saturday, 16 March 2024 - Room: Davos 1

Session 10		Allergic inflammation
		<i>Chairs Claudio Rhyner, Yoon-Seok Chang</i>
08:30 - 09:00	S38	Nicolas Gaudenzio Harnessing skin neuroimmune interactions in mice and humans: from fetal imprinting to allergic inflammation
09:00 - 09:30	S39	Benjamin Hurrell The role of iron on the development of type 2 airway inflammation
09:30 - 09:45	S40	Pei-Chi Chen Exploring the therapeutic potential of probiotic-derived glyceraldehyde-3-phosphate dehydrogenase (GAPDH) protein as an anti-allergy agent
09:45 - 10:00	S41	Guilherme Dragunas Farm dust reprograms immune cells to prevent against allergic asthma development
10:00 - 10:30		<i>Coffee break and time to visit the booths of our exhibitors</i>
Session 11		Tissue responses to inflammation and tumor immunology
		<i>Chairs: Ioana Agache, Ganesh Pandian Namasivayam</i>
10:30 - 11:00	S42	Burkhard Ludewig Cardiac fibroblastic niches in homeostasis and inflammation
11:00 - 11:30	S43	Thomas Marichal Regulation of monocyte-to-macrophage trajectories in the healthy and diseased lung
11:30 - 11:45	S44	Natalia Pikor Perivascular fibroblasts support immune surveillance during post-acute, coronavirus-induced neuroinflammation
11:45 - 12:00	S45	David Ashley Brain immunology and immunotherapy in brain tumors
12:00 - 12:10		Award Ceremony for poster & workshop prizes of day 3
12:15 - 14:00		<i>Lunch break</i>
14:00 - 15:00 subsequently		Workshops 10 - 12 (please see workshop program) Award Ceremony for workshop prizes of day 4 (will be given directly in the workshop rooms by the chairpersons)
15:00 - 15:30		<i>Coffee break and time to visit the booths of our exhibitors</i>
Session 12		Autoimmunity
		<i>Chairs: Katja Baerenfaller, Burkhard Ludewig</i>
15:30 - 16:00	S46	Christian Muenz Viral infection as a prerequisite for the development of CNS autoimmunity
16:00 - 16:15	S47	Joshua Malapit Insights into the pathogenic role of tumor-derived autoreactive antibodies in yo-associated paraneoplastic cerebellar degeneration
16:15 - 16:30	S48	Ganesh Pandian Namasivayam Targeted transcription therapy for autoimmune and inflammatory disorders: Progress and prospects
16:30 - 16:45	S49	Johan Garsen Human milk oligosaccharides and immunoregulation: potential for the management of allergy and autoimmunity?
16:45 - 17:00		Cezmi A. Akdis , Closing Address
19:30		Dinner & Dance Gala Night (Ticket are available at the registration desk until Friday, 15 March 2024 at 12:00 lunch time)

Workshop Program 1. Day - Wednesday, 13 March 2024

Workshop 1	Allergy and Asthma I: Identification of allergens and proteins influencing the immune response
<i>Room: Davos 1</i>	<i>Chairs: Pierre-Yves Mantel, Ozlem Goksel</i>
14:30 - 14:40	WS01 Fenja von der Höden Specific antibody response is induced by feeding transgenic barley mixture to horses, a possible oral immunotherapy for insect bite hypersensitivity
14:40 - 14:50	WS02 Elena Barletta Mass spectrometry-based identification of allergen proteins involved in seafood related allergic reactions
14:50 - 15:00	WS03 Rania Boussad Aspergillus fumigatus extract induces severe lung inflammation and the formation of multinucleated giant cells
15:00 - 15:10	WS04 Janice Layhadi - absent Modulation of T and B cell responses by Ara h 2-expressing virus-like particles (VLP): A novel therapeutic vaccine candidate for peanut allergy
15:10 - 15:20	WS05 Pascal Krenger Probing novel epitopes on the Plasmodium falciparum circumsporozoite protein for vaccine development
15:20 - 15:30	WS06 Alessandro Pardini Versatile and scalable nanoparticle vaccine as a scaffold against newly emerging influenza viruses
Workshop 2	B cell subsets and immune regulation
<i>Room: Davos 2</i>	<i>Chairs: Claudia Mauri, Martin Bachmann</i>
14:30 - 14:40	WS07 Stephan Schneider Investigation of B-cells in allergy concordant and discordant twins
14:40 - 14:50	WS08 Christopher Piper SIGLEC-5 – a novel immune checkpoint in B-T cell interactions
14:50 - 15:00	WS09 Juan Felipe Lopez Understanding the contribution of IgD to immune tolerance: Insights into the association of IgD expression with tolerance B cell related markers
15:00 - 15:10	WS10 Isabella Withnell Single-cell B cell panorama reveals insights into colon and lung B cell cancer immunity
15:10 - 15:20	WS11 Margot Starrenburg Dupilumab treatment decreases Type 2 MBCs, correlating with reduced IgE in pediatric AD
15:20 - 15:30	WS12 Duane Wesemann Origins and diversity of human bone marrow plasma cells in food allergy
Workshop 3	Epithelial barrier regulation
<i>Room: Forum</i>	<i>Chairs: Manesh Desai, Hedda Wardemann</i>
14:30 - 14:40	WS13 Ozlem Yesil Celiktas Development of a biomimetic human airway epithelial barrier-on-a-chip and ex vivo human airway model: Tools for evaluating silica PM 2.5 particle exposures
14:40 - 14:50	WS14 Duygu Yazici Epithelial barrier disruption and pro-inflammatory activation in gut epithelial cells induced by food emulsifiers: Unveiling Epithelitis
14:50 - 15:00	WS15 Mario Pérez-Diego Cannabinoid agonist WIN55,212-2 improves bronchial epithelial barrier alterations induced by rhinoviral infections and type 2 cytokines
15:00 - 15:10	WS16 Sena Ardici Unraveling the impact of Beta-Casomorphin-7 on gut epithelial cells: A comprehensive investigation
15:10 - 15:20	WS17 Marit Zuurveld Allergenic shrimp tropomyosin distinguishes from a non-allergenic chicken homolog by pronounced intestinal barrier disruption and downstream Th2 responses in epithelial and dendritic cell (co)culture
15:20 - 15:30	WS18 Anders Funch Mechanisms behind long-term survival of allergen-specific epidermal-resident CD8+ TRM cells
20:00	Poster presentations of workshops 1 - 3, Room: Main Corridor

Workshop Program 2. Day - Thursday, 6 July 2023

Workshop 4	Allergy and Asthma II: Clinical applications
<i>Room: Davos 1</i>	<i>Chairs: Marie Charlotte Brügger, Isabelle Arnold</i>
14:30 - 14:40	WS19 Jens Richter Experiences from a pilot model of a joint interdisciplinary "United Airways Clinic" at Lund University Hospital, Sweden
14:40 - 14:50	WS20 Dhanapal Govindaraj Effects of probiotic and omega-3 fatty acid supplementation on allergen and TLR ligand induced cytokine production during pregnancy
14:50 - 15:00	WS21 Rudi Hendriks Dynamics of type-2 cytokine production by circulating CD4+ and CD8+ T cells in asthma patients in relation to disease severity, season and exacerbations
15:00 - 15:10	WS22 Magdalena Zemelka-Wiacek Assessing the impact of nanoplastics on mitochondrial function and glycolytic activity in human bronchial smooth muscles and epithelial cells
15:10 - 15:20	WS23 Magdalena Zemelka-Wiacek Evaluating allergen immunotherapy efficacy in rhinoconjunctivitis patients sensitive to house dust mite: A study using allergen exposure chamber and nasal allergen challenge
15:20 - 15:30	WS24 Laurent Mascarell LILRA5 and CCL25 as candidate predictive biomarkers of AIT efficacy
Workshop 5	Regulatory and effector T cells - Swiss Young Immunologists Society Workshop
<i>Room: Davos 2</i>	<i>Chairs: Elena Barletta, Wang Jiu-Yao, Paola Marzinez Murillo</i>
14:30 - 14:40	WS25 Miro Emanuel Raeber Interleukin-2 immunotherapy reveals human regulatory T cell subsets with distinct functional and gatekeeper features
14:40 - 14:50	WS26 Laura Gamez-Diaz LRBA balances antigen presentation and T-cell responses via autophagy
14:40 - 14:50	WS27 Sven Sokolovic Dysfunctional Tregs in autoimmunity
15:00 - 15:10	WS28 Nariaki Asada The integrated stress response/eIF2 alpha pathway controls cytokine production in tissue-resident memory CD4 T cells
15:10 - 15:20	WS29 Sarah Adamo Distinct phenotypical and epigenetic trajectories shape CD8 T cell memory
15:20 - 15:30	WS30 Jens Geginat AD-HIES patients with impaired STAT3 signalling contain pre-Th17-cells that are activated by opportunistic pathogens to produce IL-10
Workshop 6	Immune metabolism
<i>Room: Forum</i>	<i>Chairs: Urszula Radzikowska, Oscar Palomares</i>
14:30 - 14:40	WS31 Elias Toubi Chemokine expression is increased in the skin of patients with chronic spontaneous urticaria
14:40 - 14:50	WS32 Panagiota Goutakoli CTLA4-Ig induces tolerogenic properties of dendritic cells by altering cellular metabolism
14:50 - 15:00	WS33 Ines Jardon Parages Immunometabolic reprogramming of bronchial epithelium in asthma
15:00 - 15:10	WS34 Zahava Vadasz The metabolic effects of Semaphorin3A on human T cells during homeostasis and immune-mediated diseases
15:10 - 15:20	WS35 Fabian Luther AhR agonism by tapinarof regulates TH2 and TH17 cell function in human skin
15:20 - 15:30	WS36 Jana Koch Protein Prenylation in Th1 cell activation
17:00 - 17:15	Award Ceremony for workshop prizes of workshops 1 - 3, Room: Davos 1
20:00	Poster presentations of workshops 4 - 6, Room: Main Corridor

Workshop Program 3. Day - Friday, 15 March 2024

Workshop 7 Epithelial barrier and microbiome

Room: Davos 1 Chairs: David Sancho, Ignacio Gonzalez Perez

- 15:30 - 15:40 WS37 **Michele Roth**
Characterization of skin and gut microbiome in children under the age of two years with IgE-mediated food allergy: Collinsella – a possible biomarker for allergy persistence
- 15:40 - 15:50 WS38 **Yagiz Pat**
The influence of microbiome metabolites on gut and skin epithelial barrier
- 15:50 - 16:00 WS39 **Ying Li**
15(S)-HETE inhibits TGF-beta1 expression by activating PPAR-gamma in eosinophilic chronic rhinosinusitis with nasal polyps
- 16:00 - 16:10 WS40 **Maciej Chalubinski**
Rhinoviral infection of the human lung vascular endothelium may protect from the re-infection with the rhinovirus HRV16 and coronavirus HCoV229E

Workshop 8 Neuroinflammation

Room: Davos 2 Chairs: Nicolas Gaudenzio, Markus Kleinewietfeld

- 15:30 - 15:40 WS41 **Jiwon Kim**
Mechanism of cytotoxic T cell to Treg cell conversion by Poly-YE in neuroinflammation after Ischemic stroke
- 15:40 - 15:50 WS42 **Adekunle Adeniran**
EBV and Memory B-cells in patients with Multiple Sclerosis
- 15:50 - 16:00 WS43 **Margaux Verdon**
Perivascular fibroblasts support immune surveillance of the CNS during post-acute neurotropic coronavirus infection
- 16:00 - 16:10 WS44 **Andrea Mauracher**
Elevated CD38 expression and alterations in NAD+ Levels in STAT1 GOF patients as a potential targetable driver of CD8+ T cell dysfunction
- 16:10 - 16:20 WS45 **Selene Sodini**
Lineage tracing demonstrates a shared developmental window for IL-10 potent B cells early in life

Workshop 9 Immunoregulation and tumors

Room: Forum Chairs: Daniel Speiser, Pedro Romero

- 15:30 - 15:40 WS46 **Deeksha Raju**
Eosinophils demonstrate dynamic shifts in subset dominance throughout progressive stages of colorectal cancer
- 15:40 - 15:50 WS47 **Céline Godfroid**
Novel radioimmunotherapy for lung cancer: A tumor targeting approach
- 15:50 - 16:00 WS48 **Robert Maka**
Influencing anti-tumor immunity by receptor-selective interleukin-2 antibody complexes
- 16:00 - 16:10 WS49 **Mirjam Schenk**
TREM-1 activation as a novel immunotherapeutic approach in pancreatic ductal adenocarcinoma
- 16:10 - 16:20 WS50 **Annika Karlsson**
The function of antiviral cellular and humoral immunity in cancer patients are maintained at the end of life
- 16:20 - 16:30 WS51 **Mette-Triin Purde**
Propagating viral-vector-based vaccine platform as potent therapeutic strategy for solid tumor elimination
- 17:00 - 17:10 **Award Ceremony for workshop prizes of workshops 4 - 6, Room: Davos 1**
- 20:00 **Poster presentations of workshops 8 - 12, Room: Main Corridor**

Workshop Program 4. Day - Saturday, 16 March 2024

Workshop 10	Infections, pathogenesis and immune responses
<i>Room: Davos 1</i>	<i>Chairs: Philippe Krebs, Willem van de Veen</i>
14:00 - 14:10	WS52 Guillem Montamat SARS-CoV-2 mRNA vaccination reveals novel antibody class switch recombination kinetics and B cell memory response dynamics in antigen-unexposed individuals
14:10 - 14:20	WS53 Rashmi Kaul Estrogen receptors are involved in mediating urinary tract immunity
14:20 - 14:30	WS54 Yasmin Shaalan Delineating the innate immunological capacity of CD4+ and CD8+ T-cells in the distal lung
14:30 - 14:40	WS55 Anna Olofsson The function of antiviral T cell immunity in children living with human immunodeficiency virus (HIV)
14:40 - 14:50	WS56 Nicholas Dopkins Endogenous retroelement expression in the gut microenvironment of people living with HIV-1
14:50 - 15:00	WS57 Ismail Ögülür Inflammatory biomarkers in circulation: Exploring their role in COVID-19 pathogenesis
Workshop 11	Inflammation, cell mediated immune responses
<i>Room: Davos 2</i>	<i>Chairs: Christian Muenz, Mirjam Schenk</i>
14:00 - 14:10	WS58 Sina Bohnacker A helminth enzyme subverts macrophage-mediated immunity by epigenetic targeting of prostaglandin synthesis
14:10 - 14:20	WS59 Alessandra Gurtner Eosinophil heterogeneity at single-cell resolution in allergic airway inflammation
14:20 - 14:30	WS60 Jiu-Yao Wang Early-life EV-A71 infection augments allergen-induced airway inflammation in asthma through trained immunity of macrophages
14:30 - 14:40	WS61 Elena Barletta Immune-inflammatory proteomic fingerprint of elite athletes, amateur athletes and non-sportive controls
14:40 - 14:50	WS62 Lucas Onder Fibroblastic reticular cells generate protective intratumoral T cell environments in lung cancer
14:50 - 15:00	WS63 Chrysa Papadopoulou Ectopic lymph nodes support local control of tumor growth
15:00 - 15:10	WS64 Paola Andrea Martinez Murillo Impact of opposing signals IL4-Ra and IFN-g on neutrophils effector functions
Workshop 12	Omics methods in immune regulation
<i>Room: Forum</i>	<i>Chairs: Laurent Mascarell, Dominic Caspar</i>
14:00 - 14:10	WS65 Pia Fehrenbach Increased number of monocytes is associated with infected non-union in patients with long bone fracture
14:10 - 14:20	WS66 Angel Maldonado Cannabinoids-induced epigenetic rewiring in tolerogenic DCs enhances extracellular vesicle synthesis able to polarize Tregs
14:20 - 14:30	WS67 Mel Diedro The atopic dermatitis cellular communication atlas: investigating the host-microbiome extracellular vesicles functional interactome
14:30 - 14:40	WS68 Fabricia Heloisa Cavicchioli Sugiyama Metabolism and epigenetic rewriting of training immunity are independently modulated in monocytes from people living with HIV
14:40 - 14:50	WS69 Abhijeet Kulkarni Metabolic regulation of Th2 cell activity and phenotype by Phenylalanine
14:50 - 15:00	WS70 Damir Zhakparov Elucidating the pathogenesis of Atopic Dermatitis in African children through multimodal data integration and machine learning
12:00 - 12:15	Award Ceremony for workshop prizes of workshops 7 - 9 Room: Davos 1 Award Ceremony for workshop prizes of workshops 10 - 12 (will be given directly after the workshops by the chairpersons)

Poster Program 1. Day - Wednesday, 13 March 2024

Poster Session 1		B cell subsets and immune regulation
20:00, Room: Foyer A1		Chairs: <i>Elias Toubi, Sena Ardicli</i>
P01	Ozge Ardicli	Optimizing Flow Cytometric Analyses of B-Cell Receptor Immunoglobulin Heavy Chain Isotypes: A Comprehensive Evaluation of Fc Receptor Blocking Strategies and Their Impact on Detection Accuracy
P02	Hannah Bradford	Thioredoxin: a metabolic rheostat controlling regulatory B cells
P03	Juan Felipe Lopez	Evaluation of PLA-2-specific B cell immune response in beekeepers
P04	Zara Baig	Immunoregulatory double negative B cells suppress cytotoxic T cell function in renal cell carcinoma
P05	Minglin Yang	The role of differential expression of HR1 and HR2 on B cell subsets
P06	Matthias Schaefer	Mining immunological memory from previous generations
P07	Lili Shi - absent	The effect of tryptophan metabolite on the Breg differentiation and IL-10 production in vitro
Poster Session 2		Epithelial barrier and microbiome
20:00, Room: Foyer A1		Chairs: <i>Duygu Yazici, Yagiz Pat</i>
P08	Paolo D'Avino	Decoding skin responses: Unraveling the impact of type 2 and IL-22 Cytokines on the human skin
P09	Ibrahim Hamad	Gut Microbiota Boosts Antitumor Immunity Through Modulation of Myeloid-Derived Suppressor Cells
P10	Manru Li	Investigation of the detailed mechanisms of skin barrier dysfunction caused by household dishwasher detergents
P11	Marit Zuurveld	Butyrate interacts with the effects of 2'FL and 3FL to modulate in vitro ovalbumin-induced immune activation, and 2'FL lowers mucosal mast cell activation in a preclinical model for hen's egg allergy
P12	Huseyn Babayev	Deciphering the dynamics of blood microbiome: Influence of physiological conditions and correlations with mucosal microbiota
Poster Session 3		Allergy and Asthma: Anaphylaxis and inflammation
20:00, Room: Foyer A1		Chairs: <i>Anders Funch, Steve Pascolo</i>
P13	Marilina Antonelou	Therapeutic myeloperoxidase inhibition attenuates neutrophil activation, ANCA-mediated endothelial damage and crescentic glomerulonephritis
P14	Andrea Teufelberger	Mast cells change their secreted cytokine profile from pro-inflammatory to pro-tolerant upon IL-33 exposure
P15	Miao-Hsi Hsieh	Exosomal let-7-mediated Regulation of Lipid Metabolism in Foamy Macrophage of Chronic Obstructive Pulmonary Disease (COPD)
P16	Maryam Jafari	Shedding of CD62L is delayed in blood neutrophils from patients with CRSwNP
P17	Jasper Kamphuis	Impact of ageing on the severity of IgE-, Mrgprb2-, and histamine-mediated anaphylaxis in mice
P18	Manal Bel imam	B cells in eosinophilic esophagitis
P19	Adriana Ariza	Prospective study to analyze the synergistic effect of amoxicillin and lipopolysaccharide in basophil activation to improve the diagnosis of IgE-mediated hypersensitivity reactions to amoxicillin
P20	Rabia Ülkü Korkmaz	Unraveling the immunomodulatory potential of cow shed dust extracts: Insights into asthma protection
P21	Ruben Fernandez-Santamaria	Novel design and evaluation of amoxicillin-decorated nanoparticles in basophils from allergic patients and healthy donors
20:00	Poster presentations of workshops 1 - 3, Room: Main Corridor	

Poster Program 2. Day - Thursday, 14 March 2024

Poster Session 4		Immunotherapy
20:00, Room: Foyer A1		Chairs: Jens Geginat, Anna Olewicz
P22	Edouard Baulier	The bacterial lysate OM-85 engages Toll-like receptors 2 and 4 triggering an immunomodulatory gene signature in human myeloid cells
P23	Olivier Donzé	Long Acting and Highly Active Monomeric and Heterodimeric Interleukins Fused to Fc (KIH-Technology). Case Study: IL-2 (human) (monomeric):Fc (human)-KIH & IL-27 (mouse):Fc (human)-KIH
P24	Sigridur Jonsdottir	Allergen specific immunotherapy (AIT) with Culicoides recombinant allergens resulted in decreased in vitro sulfidoleukotriene release in basophil activation test
P25	Johanna Geisler	Equine insect bite hypersensitivity: study of the molecular response after preventive allergen immunotherapy followed by natural allergen exposure
P26	Pascal Gasser	Antibodies against peanut allergens can act synergistically with allergen immunotherapy
Poster Session 5		Immune regulation, tissue repair and tumors
20:00, Room: Foyer A1		Chairs: Paola Martinez Murillo, Juan Felipe Lopez
P27	Camilla Tondello	The XCL1/XCR1 chemokine axis is upregulated in human type 1 diabetes and its disruption tips the T cell balance and ablates the β -cell damage in a mouse model
P28	Wen Peng	Endothelial Tgf beta1 instructs lung interstitial macrophage differentiation and identity via Tgf beta receptor-dependent pathways
P29	Glenn De Lange	Eosinophils have a distinct transcriptional signature in colorectal cancer patients
P30	Ignacio Heras	Immunotherapy with natural conventional TYPE-1 dendritic cells excels at immune memory induction to eradicate cancer relapse
P31	Nicholas Dopkins	Endogenous Retroelement Expression in Modeled Airway Epithelial Repair
P32	Melissa Klug	High-Plex Co-Detection of RNA and Protein to Explore Tumor-Immune Interactions Utilizing RNAScope With Imaging Mass Cytometry
Poster Session 6		Infections, pathogenesis and immune responses
20:00, Room: Foyer A1		Chairs: Sarah Adamo, Miro Emanuel Raeber
P33	Greg Kirchenbaum	Next-generation B cell ImmunoSpot® assays permit in-depth assessment of the B cell response elicited by SARS-CoV-2 infection and/or COVID-19 mRNA vaccination
P34	Laura Ceglarek	Longitudinal characterization of IL-2 and IL-7 receptors in humans shows protracted changes after acute viral infection
P35	Mario Noti	Early life synbiotic intervention with Bifidobacterium infantis and HMOs promote protection from viral airway infection
P36	Ozlem Goksel	Practical in vitro and ex vivo models for investigation of Nafamostat Mesylate administration on Influenza Type A infection
P37	Theresa Pankhurst	Establishing a pre-clinical vaccine testing pipeline to improve vaccine efficacy in older individuals
P38	Sara Kraker	The nasal-associated lymphoid tissue is the first secondary lymphoid organ supporting antiviral immunity against coronaviruses
P39	Rosemarie Preyer	Solutions for quantifying cytopathic effects after viral infection in vitro
P40	Rosemarie Preyer	Stepping up in immunomonitoring - EliSpot five colour cytokine release Assay

20:00 **Poster presentations of workshops 4 - 6, Room: Main Corridor**

Poster Program 3. Day - Friday, 15 March 2024

Poster Session 7 Omics methods in immune regulation

20:00, Room: Foyer A1

Chairs: Maria Jenmalm, Ganesh Phad

P41	Melissa Klug	A Comparison of 37+ Immune Populations in Whole Blood by CyTOF Flow Cytometry Collected With 4 Different Preservation Reagents
P42	Nicolo Marchi	A new platform for the generation of engineered extracellular vesicles as drug-delivery system to target the immune response
P43	Xiao-Jun Ma	Immune Profiling of Autoimmune Diseases with NULISAseq™ 250-Plex Inflammation Panel
P44	Selket Delafontaine	Heterozygous mutations in the C-terminal domain of COPA underlie a complex autoinflammatory syndrome
P45	Bibin Yesodha Subramanian	Extracellular vesicles in the regulation of neutrophil dysfunction during malaria
P46	Ahmed Al-Kaabawi	Isolation and characterization of breast milk extracellular vesicles
P47	Laetitia Clauss	Investigation of anaphylaxis in mastocytosis mouse models

Poster Session 8 Epithelial barrier regulation

20:00, Room: Foyer A1

Chairs: Maciej Chalubinski, Ruben Fernandez-Santamaria

P48	Yagiz Pat	Transcriptomic analysis of epithelitis caused by Aspartame
P49	Yagiz Pat	Synergistic effect of air pollution and type 2 inflammation on nasal epithelial cells
P50	Anna Olewicz	Serum levels of Meteorin-like/Metrnl in patients with morphea
P51	Maria Asuncion Garcia-Sanchez	Understanding How Non-Nutritive Sweeteners Affect the Gut Barrier
P52	Duygu Yazici	Disruption of Intestinal Epithelial Barrier Integrity by Food Emulsifiers: Carrageenans' Impact

Poster Session 9 T cell subsets, immune regulation and tissue responses

20:00, Room: Foyer A1

Chairs: Ozlem Yesil Celiktas, Urs Christen

P53	Clarissa Prazeres da Costa	Lipid mediators as novel regulators of Treg cell development with distinct features to maintain immune tolerance
P54	Monika Brunner-Weinzierl	SLAMF7 on CD8+ T cells adjusts cytotoxic effector populations in responses to low antigenic activation
P55	Nariaki Asada	Type I interferon induces distinct transcriptome and drives cytotoxicity in both CD4 and CD8 T cells in immune mediated diseases
P56	Sena Ardicli	The influence of novel bone materials on immune /inflammatory pathways
P57	Ezgi Irem Bektas	Investigating the role of neutrophils in biomaterials-driven immunomodulation and MSCs Osteogenesis in vitro
P58	James King	Bcl-2 supports survival and metabolic fitness of quiescent tissue-resident ILC3
P59	Lisa Kurz	Common progenitor of fibroblastic reticular cells and vascular smooth muscle cells in murine lymph nodes
P60	Elina Bugar	Gremlin 1 and 2 regulate the differentiation of fibroblastic reticular cells in lymph nodes
P61	Charlotte Viant	Targeted PD1 agonism in the immune synapse leads to durable immune modulation

20:00 Poster presentations of workshops 8 - 12, Room: Main Corridor



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Meister der Drucktechnik

10.12.23 – 28.04.24



Poster Presenters Overview

Family Name	First Name	Poster No.	Day	Room	Session-Title
Adamo	Sarah	WS29	Day 2	Main Corridor	W5 - Regulatory and effector T cells
Adeniran	Adekunle	WS42	Day 3	Main Corridor	W8 - Neuroinflammation
Al-Kaabawi	Ahmed	PS46	Day 3	Foyer A1	P7 - Omics methods in immune regulation
Antonelou	Marilina	PS13	Day 1	Foyer A1	P3 - Allergy and Asthma: Anaphylaxis and inflammation
Ardicli	Ozge	PS01	Day 1	Foyer A1	P1 - B cell subsets and immune regulation
Ardicli	Sena	PS56	Day 3	Foyer A1	P9 - T cell subsets, immune regulation and tissue responses
Ardicli	Sena	WS16	Day 1	Main Corridor	W3 - Epithelial barrier regulation
Ariza	Adriana	PS19	Day 1	Foyer A1	P3 - Allergy and Asthma: Anaphylaxis and inflammation
Asada	Nariaki	PS55	Day 3	Foyer A1	P9 - T cell subsets, immune regulation and tissue re-
Asada	Nariaki	WS28	Day 2	Main Corridor	W5 - Regulatory and effector T cells
Babayev	Huseyn	PS12	Day 1	Foyer A1	P2 - Epithelial barrier and microbiome
Baig	Zara	PS04	Day 1	Foyer A1	P1 - B cell subsets and immune regulation
Barletta	Elena	WS02	Day 1	Main Corridor	W1 - Allergy and Asthma I: Identification of allergens and proteins influencing the immune response
Barletta	Elena	WS61	Day 4	Main Corridor	W11 - Inflammation, cell mediated immune responses
Baulier	Edouard	PS22	Day 2	Foyer A1	P4 - Immunotherapy
Bektas	Ezgi Irem	PS57	Day 3	Foyer A1	P9 - T cell subsets, immune regulation and tissue re-
Bektas	Ezgi Irem	PS57	Day 3	Foyer A1	P9 - T cell subsets, immune regulation and tissue re-
Bel imam	Manal	PS18	Day 1	Foyer A1	P3 - Allergy and Asthma: Anaphylaxis and inflammation
Bohnacker	Sina	WS58	Day 4	Main Corridor	W11 - Inflammation, cell mediated immune responses
Boussad	Rania	WS03	Day 1	Main Corridor	W1 - Allergy and Asthma I: Identification of allergens and proteins influencing the immune response
Bradford	Hannah	PS02	Day 1	Foyer A1	P1 - B cell subsets and immune regulation
Brunner-Weinzierl	Monika	PS54	Day 3	Foyer A1	P9 - T cell subsets, immune regulation and tissue responses
Bugar	Elina	PS60	Day 3	Foyer A1	P9 - T cell subsets, immune regulation and tissue responses
Caviccholi Sugiyama	Fabricia	WS68	Day 4	Main Corridor	W12 - Omics methods in immune regulation
Ceglarek	Laura	PS34	Day 2	Foyer A1	P6 - Infections, pathogenesis and immune responses
Chalubinski	Maciej	WS40	Day 3	Main Corridor	W7 - Epithelial barrier and microbiome
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Lopez	Juan Felipe	WS09	Day 1	Main Corridor	W2 - B cell subsets and immune regulation
Luther	Fabian	WS35	Day 2	Main Corridor	W6 - Immune metabolism
Ma	Xiao-Jun	PS43	Day 3	Foyer A1	P7 - Omics methods in immune regulation
Maka	Robert	WS48	Day 3	Main Corridor	W9 - Immunoregulation and tumors
Maldonado	Angel	WS66	Day 4	Main Corridor	W12 - Omics methods in immune regulation
Marchi	Nicolo	PS42	Day 3	Foyer A1	P7 - Omics methods in immune regulation
Martinez Murillo	Paola				
	Andrea	WS64	Day 4	Main Corridor	W11 - Inflammation, cell mediated immune responses
Mascarell	Laurent	WS24	Day 2	Main Corridor	W4 - Allergy and Asthma II: Clinical applications
Mauracher	Andrea	WS44	Day 3	Main Corridor	W8 - Neuroinflammation
Montamat	Guillem	WS52	Day 4	Main Corridor	W10 - Infections, pathogenesis and immune responses
Noti	Mario	PS35	Day 2	Foyer A1	P6 - Infections, pathogenesis and immune responses
Ögülür	Ismail	WS57	Day 4	Main Corridor	W10 - Infections, pathogenesis and immune responses
Olewicz	Anna	PS50	Day 3	Foyer A1	P8 - Epithelial barrier regulation
Olofsson	Anna	WS55	Day 4	Main Corridor	W10 - Infections, pathogenesis and immune responses
Onder	Lucas	WS62	Day 4	Main Corridor	W11 - Inflammation, cell mediated immune responses
Pankhurst	Theresa	PS37	Day 2	Foyer A1	P6 - Infections, pathogenesis and immune responses
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Preyer	Rosemarie	PS40	Day 2	Foyer A1	P6 - Infections, pathogenesis and immune responses
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