

Congress Programme



18-21 April, 2023 Robinson College, University of Cambridge Cambridge, England

Chairpersons Professor Alan Warren and Dr Johanna Rommens



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Practical Information

Abstracts

To save on paper for environmental reasons, we are offering the abstracts online only. Please follow the QR code below to find a copy of all abstracts online.

Speakers

All speakers should ensure their presentation is loaded and checked during the break prior to their talk.

Poster Presenters

The poster sessions will take place on Tuesday at 17:00 and Wednesday at 12:45. You should display your poster on arrival at the venue and take it down after the last session on Thursday. Please note your poster number (pages 14-15) and display your poster on the correct board. Velcro is provided.

Punting and Gala Dinner - Wednesday 19 April

Punting is £10pp and will commence at 17:45 for those who reserved a space. The Gala Dinner will take place at Gonville & Caius College at 19:00 for those who booked a ticket. Find further details on the website at the QR code below. Come to the registration desk with any questions.

Dress code: Smart casual.

Wi-Fi

Wi-Fi is available throughout the venue. No password is needed.



Generous Sponsors



Award Winners



Alex Faille, UK

Clarissa Gervasoni, Italy

Vasileios Kargas, UK

Jane Koo, USA

Apichat Photi-A, Canada

Many thanks go to the Quinlan Kohn Scholarship for supporting the following researchers:

Helen Reed, USA

Nic Robertson, UK

Orna Steinberg-Shemer, Israel

Shengjiang Tan, UK

Dear friends and colleagues,

As chairpersons of the organising committees, it is our privilege to welcome you to the 10th International Congress on Shwachman Diamond Syndrome.

Much has happened since our last meeting in Houston in 2018, but we are grateful to be able to gather once more to continue the tradition of meeting to report outstanding new research and clinical developments from around the world relevant to those with an interest in SDS and related ribosomopathies.

SDS is a rare condition but it is the focus of research worldwide because of the impact it has on patients and their families, and the fascinating scientific problems associated with it. We are delighted to have assembled an outstanding array of speakers for the 2023 Congress, and the first Peter Durie Memorial Lecture, generously sponsored by SDS Canada. Johanna Rommens will give the lecture in memory of her much-missed friend and colleague.

We are proud to welcome you to the historic city of Cambridge for the 10th Congress, a city with a rich history of scientific discovery and progress. Boasting more Nobel laureates than any other University in the world, and with alumni like Isaac Newton, Charles Darwin, Philippa Fawcett, Rosalind Franklin, Stephen Hawking, and more, Cambridge is the perfect setting for a congress on scientific issues like SDS.

Scientific sessions will be held in the beautifully landscaped surroundings of 20th century Robinson College and its purpose-built conference centre, and we will gather for a gala dinner in the magnificent 16th century hall of Gonville & Caius College. A punting trip on the lovely river Cam and a chance to see some of Cambridge's outstanding sights are also on offer.

The Congress would not be possible without the involvement and sponsorship of the many outstanding organisations supporting people with SDS and their families. We would also like to thank all the invited speakers, chairs, and facilitators for lending their time and knowledge to help make the conference a success.

We welcome you to Cambridge for this fascinating and memorable event, and we hope you enjoy your stay.



Alan J Warren University of Cambridge, UK



Johanna Rommens
The Hospital for Sick Children, Toronto

Co-chairs of the Organising Committee



SDS Programme 2023

Tuesday 18 April*

11:00 Registration opens

12:00	Session 1: Joint Foundation Group/Science - Clinical & Research Advances for SDS		
12:00	Welcome & Introduction to Family Session	Alan Warren	
12:10	Welcome to Family Sessions	Julia Hawkins	
12:20	Introductions from Families	Supporting Foundation objectives and immediate clinical/ research priorities	
12:45	Introduction to SDS Research & Q&A	Alan Warren	
13:15	Introduction to SDS Research & Q&A	Akiko Shimamura	
13:45	Discussion	Working together, how to achieve goals	
14:00	Break and refreshments		
14:30	Session 2: Future, Ongoing, Present & Past Chair: Alan Warren		
14:30	Alan Warren University of Cambridge	Welcome & Introduction	
14:30 14:40		Welcome & Introduction Peter Durie Lecture SDS: Looking back, and on toward the future	
	University of Cambridge Johanna Rommens	Peter Durie Lecture	
14:40	University of Cambridge Johanna Rommens The Hospital for Sick Children Alex Faille	Peter Durie Lecture SDS: Looking back, and on toward the future	
14:40 15:15	University of Cambridge Johanna Rommens The Hospital for Sick Children Alex Faille University of Cambridge Peter Campbell	Peter Durie Lecture SDS: Looking back, and on toward the future	
14:40 15:15 15:40 16:20	University of Cambridge Johanna Rommens The Hospital for Sick Children Alex Faille University of Cambridge Peter Campbell Wellcome Sanger Institute Simone Cesaro Verona University Hospital	Peter Durie Lecture SDS: Looking back, and on toward the future	
14:40 15:15 15:40	University of Cambridge Johanna Rommens The Hospital for Sick Children Alex Faille University of Cambridge Peter Campbell Wellcome Sanger Institute Simone Cesaro Verona University Hospital	Peter Durie Lecture SDS: Looking back, and on toward the future SBDS: Under the microscope	
14:40 15:15 15:40 16:20	University of Cambridge Johanna Rommens The Hospital for Sick Children Alex Faille University of Cambridge Peter Campbell Wellcome Sanger Institute Simone Cesaro Verona University Hospital	Peter Durie Lecture SDS: Looking back, and on toward the future SBDS: Under the microscope ents, patient cohorts, and registries Chairs: Adrianna Vlachos & Yves Pastore	

Delegates can order food from Robinson College's Red Brick Cafe Bar (open til 23:00) or find suggestions of local dining on our guide found at the link below.

* Please note that this schedule may change from the time of printing. For updated schedules and resources for the congress, please follow the link from the QR code here:



Wednesday 19 April*

08:00 Tea & Coffee

08:30	Session 4: Ribosomes: Stru	icture & biogenesis	Chairs: Alan Warren & Victoria Cowling
08:30	Introduction to Session	Alan Warren & Victoria Cov	ling
08:35	Sebastian Klinge Rockefeller University	Principles of human pre-60	95 biogenesis
09:00	Vasileios Kargas University of Cambridge	Regulating GTP hydrolysis assembly	during late cytoplasmic ribosome
09:20	Vikram Panse University of Zurich	Resolving a nuclear-mitocl ribosome assembly	nondrial targeting conflict during
09:40	Ron Kopito Stanford University	Ribosome UFMylation prot the endoplasmic reticulum	motes 60S recycling and rescue from
10:00	Victoria Cowling Beatson Institute for Cancer Research, Glasgow	Ribosome production in T methyltransferase RNMT	cells is co-ordinated by the RNA cap
10:20	Break and refreshments		
10:50	Session 5: Ribosome failures: Cell & organ consequences Chairs: Alison Bertuch & Denis Lafontaine		
10:50	Introduction to Session		
10:55	Pierre-Emmanuel Gleizes Centre de Biologie Integrative, Toulouse	3' uridylation monitors exc ribosomal RNA in the cyto	nucleolytic maturation of the 18S plasm
11:10	Wei Tong Children's Hospital of Pennsylvania	Regulation of Ribosome As Hematopoietic Stem Cell R	ssembly and Protein Synthesis during egeneration
11:25	Denis Lafontaine Universite libre de Bruxelles		essome component C1orf131 s dysfunction leading to primary
11:40	Timothy Olson Children's Hospital of Pennsylvania	SBDS Deficiency in Bone M Engraftment after Myeloak	arrow Niches Impairs Donor Iative Transplantation
11:55	Marc Raaijmakers Erasmus University		
12:10	Kim de Keersmaecker ^{KU Leuven}	Translatome analysis of so	natic ribosomal protein mutations
12:25	Break		
12:45	Session 6: Lunch & Poster		ion and model systems Pierre-Emmanuel Gleizes & Ron Kopito
12:45	Lunch Buffet Poster session - see details o	n page 15	

14:45	Session 7: SDS Phenotypes & natural history Chairs: Johanna Rommens & Elizabeth Kerr	
14:45	Introduction to Session	Johanna Rommens & Alan Warren
14:50	Elizabeth Kerr The Hospital for Sick Children	SDS: A Neurodevelopmental Disorder
15:10	Jane Koo Cincinnati Children's Hospital Medical Center, Dana Farber/Boston Children's Hospital	Neurocognitive outcomes in patients with Shwachman- Diamond Syndrome: a report from the Shwachman- Diamond Syndrome Registry and Study
15:20	Kezia Kite Great Ormond Street Hospital	Growth and supplementation in children with Shwachman- Diamond Syndrome
15:40	Lucy Fox Peter MacCallum Cancer Centre	
16:00	Yang Wan Institute of Haematology, Tianjin	Clinical characteristics of Shwachman–Diamond syndrome in China — result from Childhood Bone Marrow Failure Diseases Register of China Alliance for Blood Diseases(cBMFR-CABD)
16:15	Selected Abstract Orna Steinberg-Shemer	Genetic background and Clinical Characteristics of Congenital Neutropenias in Israel
16:25	Selected Abstract Petr Birke	The first Case of Acute Lymphoblastic Leukemia in a 7-year- old boy with Shwachman-Diamond Syndrome
16:35	Selected Abstract Helen Reed	Lymphoid Malignancy in Shwachman-Diamond Syndrome: A Case Series from the North American Shwachman- Diamond Syndrome Registry
16:45	Selected Abstract Clarissa Gervasoni	Study of angiogenic potential and metabolism in mesenchymal stromal cells derived from Shwachman- Diamond Syndrome patients and new therapeutic strategies
16:55	Selected Abstract Apichat Photi-A	Cellular and molecular mechanisms of the hematopoietic failure in Shwachman-Diamond syndrome
17:05	Session end	
17:45	Evening Social	17:45 - Punting Group departs Robinson College with Guide 18:00 - Punting on the River Cam 18:45 - All delegates wishing to go to Gala Dinner make their way to Gonville & Caius College

19:00 Drinks Reception & Gala Dinner at Gonville & Caius College

22:00 Day 2 concludes

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Thursday 20 April*

08:00 Tea & Coffee

08:30	Session 8: Genes, genotypes & phenotypes Chairs: Akiko Shimamura & Pierre-Emmanuel Gleizes	
08:30	Yves Pastore University Hospital Center Sainte Justine, Montreal	DNAJC21 mutations and bone marrow failure 3 overlaps SDBS
08:45	Jean Donadieu Hopital Armand Trousseau	EFL1 and SRP54
09:00	Alison Bertuch Baylor College of Medicine	
09:15	Nic Robertson University of Edinburgh	Mutations associated with Cartilage-Hair Hypoplasia impair ribosome synthesis
09:30	Lionel Blanc The Feinstein Institute for Medical Research	Revisiting the Hematopoietic Defects in Rps19 and Rpl5 Haploinsufficiency at the Developmental Level
09:45	Jutta Köglmeier Great Ormond Street Hospital	
10:00	Break and refreshments	
10:30	Session 9: Clonal haemato	ppoiesis in inherited marrow failure syndromes Chairs: Jeffrey Lipton & Marc Raaijmakers
10:30	Akiko Shimamura Boston Children's Hospital/ Dana-Farber Cancer Institute	Biology and outcomes of clonal evolution in SDS: implications for surveillance
10:50	Alan Warren University of Cambridge	Convergent somatic evolution from early life in a Shwachman- Diamond syndrome
11:10	George Vassiliou University of Cambridge	Causes and consequences of clonal haematopoiesis
11:30		
	Jean Soulier Hopital St Louis	Clonal hematopoiesis and leukemia in Fanconi anemia
11:50		Clonal hematopoiesis and leukemia in Fanconi anemia Dynamics of clonal hematopoiesis
11:50 12:10	Hopital St Louis	

12:40 Lunch buffet and additional poster viewings

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Delegates can order food from Robinson College's Red Brick Cafe Bar (open til 23:00) or find suggestions of local dining on our guide found at the link below.

Friday 21 April*

08:30 Tea & Coffee

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08:50	Session 13: Emerging & th	nerapeutic approaches & strategies Chairs: Valentino Bezzerri & Johanna Rommens
08:50	Intro & administration	
09:00	Susana Navarro CIEMAT, Madrid	Lentiviral-mediated gene therapy for Diamond-Blackfan anemia: one step closer to the clinic
09:20	Selected Abstract Sabine Mellor-Heineke	G-CSF-Therapy in European Patients with Shwachman-Diamond Syndrome
09:30	Valentino Bezzerri Integrated University Hospital, Verona	Development of novel therapeutic approaches for SDS
09:50	Selected Abstract Shengjiang Tan	Fruit fly avatars for personalised medicine in Shwachman- Diamond syndrome
10:00	Maxim Rossmann University of Cambridge	
10:20	Break and refreshments	
10:40	Session 14: International	collaboration, new research questions, summation & farewell Chairs: Alan Warren & Julia Hawkins
10:40	Report on registries, recommendations & suggestions	
11:00	New research questions & international collaboration	
11:20	Julia Hawkins sds uк	UK Registry & Tissue Bank
11:50	Alan Warren University of Cambridge	Summary, last words & farewell

Lunch

12:15

Food will be provided as takeaway option; delegates are welcome to stay at Robinson College or take their lunch elsewhere.

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Poster Sessions 2023

Poster Session Tuesday 18 April, 17:00

Patients, patient cohorts, and registries

1	Clarissa Gervasoni * Tettamanti Center, Fondazione IRCCS San Gerardo Dei Tintori	Study of angiogenic potential and metabolism in mesenchymal stromal cells derived from Shwachman-Diamond Syndrome patients and new therapeutic strategies
2	Nicholas Gloude Rady Children's Hospital San Diego, UCSD	Immunological Function in Children with Shwachman-Diamond Syndrome
3	Jane Koo* Cincinnati Children's Hospital Medical Center, Dana Farber/ Boston Children's Hospital	Neurocognitive outcomes in patients with Shwachman-Diamond Syndrome: a report from the Shwachman-Diamond Syndrome Registry and Study
4	Sabine Mellor-Heineke* University Hospital Tuebingen, Germany	G-CSF-Therapy in European Patients with Shwachman-Diamond Syndrome
5	Petr Birke* Palacky University Olomouc, Czech Republic	Cellular and molecular mechanisms of the hematopoietic failure in Shwachman-Diamond syndrome
6	Helen Reed* aDana-Farber Cancer Institute/ Boston Children's Hospital	Lymphoid Malignancy in Shwachman-Diamond Syndrome: A Case Series from the North American Shwachman-Diamond Syndrome Registry
7	Orna Steinberg-Shemer* Felsenstein Medical Research Center, Petach Tikva, Israel	Genetic background and Clinical Characteristics of Congenital Neutropenias in Israel
8	Shengjiang Tan* University of Cambridge	Fruit fly avatars for personalised medicine in Shwachman-Diamond syndrome
9	Daniel Turudic University Hospital Centre Zagreb	A child with hemophilia A and Shwachman-Diamond syndrome
10	Cornelia Zeidler* Medical School Hannover	Frequency of Somatic Mutations in SDS Patients

*Also presenting an oral presentation

Poster Session Wednesday 19 April 12:45

Ribosomes, function and model systems

11	Marije Bartels University Medical Centre Utrecht	Cytokine receptor-like factor 3 regulates platelet production via the Hippo pathway and tubulin modification, offering a new therapeutic target for myeloproliferative disease
12	Alexis Bertrand Imagine Institute/Inserm	Functional analysis of somatic genetic rescue in Shwachman Diamond syndrome
13	Christian Boni Azienda Ospedaliera Universitaria Integrata di Verona, Italy	Preclinical evaluation of ataluren as therapeutic option for patients with Shwachman-Diamond syndrome
14	Seth Corey Cleveland Clinic	SBDS-EFL1-EIF6 constitute a critical pathway that cannot be rescued by TP53 loss in Shwachman-Diamond syndrome vertebrate models
15	Christine Hilcenko University of Cambridge	Impact of acquired somatic mutations on eIF6 protein structure
16	Alejandra Lagos Monzon The Hospital for Sick Children	Aberrant early hematopoietic progenitor formation marks the onset of hematopoietic defect in SDS
17	Angela Mercuri Dept of Mother & Child, Azienda Ospedaliera Uni- versitataria Integrata	Prospective study of notch contribution on defective haematopoiesis of patients affected by Shwachman-Diamond Syndrome
18	Apichat Photi-A* The Hospital for Sick Children	Cellular and molecular mechanisms of the hematopoietic failure in Shwachman-Diamond syndrome
19	Giuseppe Sabbioni University of Ferrara	Shwachman-Diamond Syndrome: phosphoprotein pathway implication for discovering potential therapeutic targets
20	Nuria Sánchez Puig Universidad Nacional Autonoma de Mexico	Deviant conformational changes on an EFL1 disease mutant
21	Dritan Siliqi Institute of Crystallography - National Council of Research	Molecular mechanism of SDS: a combined molecular dynamics/ small angle X-ray scattering study of selected point mutations in the Shwachman–Bodian–Diamond Syndrome Protein (SBDS) and Elongation Factor-Like 1 (EFL1)
22	Roberto Valli University of Unsubria	An engineered plasmid system bearing the mutation c.258+2T>C of SBDS gene mimics the effects of the isochromosome i(7)(q10) in HeLa cells
23	Kenichiro Watanabe The Hospital for Sick Children	The aplastic anemia and leukemia-related protein SBDS interacts with the DNA repair protein KU80



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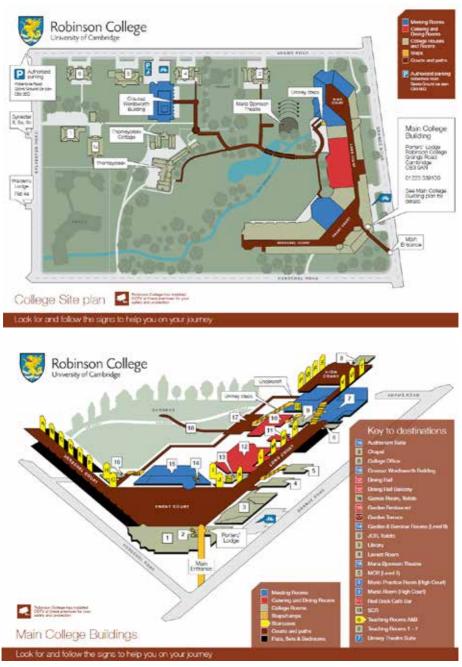
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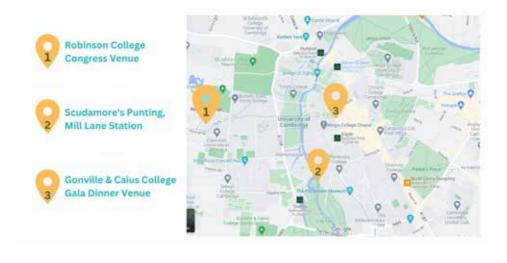
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Robinson College



Cambridge



We hope you enjoy your time in Cambridge.

For details on transportation, dining and pub suggestions, and things to do, please follow the QR code to find the document with all the information you'll need during your stay!





10th International Congress on Shwachman-Diamond Syndrome

Thank you for joining.