

Building Bridges



*Celebrating the
Novo Nordisk Postdoctoral
Fellowship Programme at
Karolinska Institutet*

Diabetes and Metabolism Research at
Karolinska Institutet and Novo Nordisk

March 19-20, 2024 | Karolinska Institutet

Time: March 19, 10:00-17:30 | March 20, 10:30-12:30

Venue: Biomedicum, Solnavägen 9, Karolinska Institutet

Program March 19. Venue: Eva and Georg Klein hall

09:30 - 10:00 REGISTRATION AND COFFEE

SESSION 1 Forming the program: design, supervision, mentoring Chair: Juleen Zierath

10:00 - 10:20 “Forming the next generation. Overview of the 10-year program”
Juleen Zierath (MMK, KI) and **Peter Kurtzhals** (Novo Nordisk)

10:20 - 10:35 “Studies of human adipose tissue – an overview”
Mikael Rydén (MedH, KI)

10:35 - 10:50 “The dyslipidemic insult – lipoproteins and the immune system in multi-organ pathophysiology”
Stephen Malin (MedS, KI)

10:50 - 11:05 “Pathogenesis and prevention of type 1 diabetes”
Malin Flodström Tullberg (MedH, KI)

11:05 - 11:25 BREAK

11:25 - 11:40 “Mentoring KI Post docs: Bridging industry mindset and university innovation”
Thomas Åskov Pedersen (Novo Nordisk)

POSTER SESSION 1 Chair: Stefan Nobel

11:40 - 12:15 Poster pitching - introduction of fellows and posters

12:15 - 13:00 LUNCH + POSTERS in the foyer by the entrance to Biomedicum

KEYNOTE Research and Development at Novo Nordisk Chair: Peter Kurtzhals

13:00 - 13:40 "Insights from Clinical Development: A Deep Dive into the Translational Aspects of FGF21"
Birgitte Andersen (Novo Nordisk)

13:40 - 13:55 BREAK

SESSION 2 Research by current fellows Chair: Stefan Nobel

13:55 - 14:10 “Harnessing neural signals to resolve hepatic immuno-metabolic dysfunction”
Osman Ahmed (MedS, KI)

14:10 - 14:25 “The Role of Red Blood Cell-derived Extracellular Vesicles for Vascular Injury in Type 2 Diabetes”
Aida Collado Sánchez (MedS, KI)

14:25 - 14:40 “Identification and functional examination of insulin regulated genes in human adipocytes reveals novel regulators of de novo lipogenesis”
Scott Frendo-Cumbo (MedH, KI)

14:40 - 14:55 “An integrated analysis of the skeletal muscle transcriptome and methylome in response to exercise in females with type 2 diabetes and normal glucose tolerance”
Kirstin MacGregor (MMK, KI)

Program March 19. Venue: Eva and Georg Klein hall

14:55 - 15:10 "A long non-coding RNA regulating skeletal muscle protein metabolism"
Ilke Sen (FyFa, KI)

15:10 - 15:35 COFFEE BREAK

SESSION 3 Research and work by alumni fellows Chair: Håkan Karlsson

15:35 - 15:50 "Skeletal muscle-adipose tissue crosstalk during exercise: a role for immune cells"
Lucile Dollet (University of Copenhagen)

15:50 - 16:05 "From Postdoc to Precision Medicine Specialist - switching gears following a passion to improve patient care"
Katharina Herzog (Novo Nordisk)

16:05 - 16:20 "How long noncoding RNAs adapt the adipocyte for specialized lipid handling"
Alastair Kerr (MedH, KI)

16:20 - 16.30 Closing Remarks

POSTER SESSION 2

16:30 - 17:30 Drinks and light bites served in the foyer by the entrance

16:30 - 17:00 Posters with odd numbers will be presented

17:00 - 17.30 Posters with even numbers will be presented

Program March 19. Venue: Eva and Georg Klein hall

POSTERS

Posters will be on display in the foyer by the entrance to Biomedicum.

1. "Neural control of inflammation and metabolism in liver disease" **Osman Ahmed** (MedS, KI)
2. "The Role of Red Blood Cell-derived Extracellular Vesicles for Vascular Injury in Type 2 Diabetes" **Aida Collado Sánchez** (MedS, KI)
3. "Skeletal muscle-adipose tissue crosstalk during exercise: a role for immune cells" **Lucile Dollet** (University of Copenhagen)
4. "Identification and functional examination of insulin regulated genes in human adipocytes reveals novel regulators of de novo lipogenesis" **Scott Frendo-Cumbo** (MedH, KI)
5. "Scientific consulting at MedEngine: science meets business and creativity" **Sanna Hellberg** (MedEngine Oy)
6. "How long noncoding RNAs adapt the adipocyte for specialized lipid handling" **Alastair Kerr** (MedH, KI)
7. "Transitioning from academic research to real-world evidence generation in industry" **Kelvin Kwok** (Schain Research AB)
8. "An integrated analysis of the skeletal muscle transcriptome and methylome in response to exercise in females with type 2 diabetes and normal glucose tolerance" **Kirstin MacGregor** (MMK, KI)
9. "Decreased mitochondrial creatine kinase 2 impairs skeletal muscle mitochondrial function independently of insulin in type 2 diabetes" **David Rizo Roca** (FyFa, KI)
10. "Conserved glucokinase regulation in zebrafish confirms therapeutic utility for pharmacologic modulation in diabetes" **Nicole Schmitner** (University of Innsbruck)
11. "lncRNAs in the regulation of skeletal muscle metabolism" **Ilke Sen** (FyFa, KI / IMRB, Paris)
12. "Survival of activated hepatic stellate cells requires REST" **Vladimir Shavva** (MedS, KI)
13. "Analytics of Biosimilars" **Daniel Svensson** (XBrane Biopharma AB)
14. "3PBIOVIAN -end-to-end CDMO services" **Soile Tuomela** (3PBIOVIAN)

Program March 20. Venue: Ragnar Granit seminar room

SESSION 4 **Impact of program: career paths** Chair: Dorthe Lundsgaard, Stefan Nobel

10:30 - 11:00 Workshop on CV. **Lee Milligan** (Novo Nordisk)

11:00 - 11:45 Panel discussion on career paths with alumni fellows. Moderated by **Vladimir Pabón-Martínez** and **Ana Oliveira** from KI Career Service.

LIGHT LUNCH SERVED

11:45 - 12:30 Breakout sessions with informal discussions on academic and industrial careers. Moderated by Dorthe Lundsgaard, Ana Oliveira, Vladimir Pabón-Martínez and Stefan Nobel.

Speakers March 19



Juleen Zierath, Professor, Departments of Physiology and Pharmacology and Molecular Medicine and Surgery, Karolinska Institutet, Chairman Joint Steering Committee NN Postdoctoral Fellowship Programme at KI



Peter Kurtzhals, Professor, Chief Scientific Advisor, Novo Nordisk A/S, Joint Steering Committee member NN Postdoctoral Fellowship Programme at KI



Mikael Rydén, Professor/Senior Physician, Department of Medicine, Huddinge, Karolinska Institutet



Stephen Malin, Principal Investigator, Department of Medicine, Solna, Karolinska Institutet



Malin Flodström Tullberg, Professor, Department of Medicine, Huddinge, Karolinska Institutet



Thomas Åskov Pedersen, Principal Scientist, Novo Nordisk A/S



Birgitte Andersen, Scientific Vice President, Novo Nordisk A/S



Osman Ahmed, Postdoctoral researcher, Department of Medicine, Solna, Karolinska Institutet

Speakers March 19



Aida Collado Sánchez, Postdoctoral researcher, Department of Medicine, Solna, Karolinska Institutet



Scott Frendo-Cumbo, Postdoctoral researcher, Department of Medicine, Huddinge, Karolinska Institutet



Kirstin MacGregor, Postdoctoral researcher, Department of Molecular Medicine and Surgery, Karolinska Institutet



Ilke Sen, Assistant Professor, Department of Physiology and Pharmacology Karolinska Institutet/ Institut Mondor de Recherche Biomédicale, Paris



Lucile Dollet, Postdoctoral researcher, Novo Nordisk Foundation Center for Basic Metabolic Research, Copenhagen



Katarina Herzog, Precision Medicine Specialist, Novo Nordisk A/S



Alastair Kerr, Principal Investigator, Department of Medicine, Huddinge, Karolinska Institutet

Poster presenters March 19



Osman Ahmed, Postdoctoral researcher, Department of Medicine, Solna, Karolinska Institutet



Aida Collado Sánchez, Postdoctoral researcher, Department of Medicine, Solna, Karolinska Institutet



Lucile Dollet, Postdoctoral researcher, Novo Nordisk Foundation Center for Basic Metabolic Research, Copenhagen



Scott Frendo-Cumbo, Postdoctoral researcher, Department of Medicine, Huddinge, Karolinska Institutet



Sanna Hellberg, Scientific Consultant, MedEngine Oy, Helsinki, Finland



Alastair Kerr, Principal Investigator, Department of Medicine, Huddinge, Karolinska Institutet



Kelvin Kwok, Senior Scientist, Schain Research AB, Stockholm



Kirstin MacGregor, Postdoctoral researcher, Department of Molecular Medicine and Surgery, Karolinska Institutet



David Rizo Roca, Assistant Professor, Department of Physiology and Pharmacology, Karolinska Institutet



Nicole Schmitner, Postdoctoral researcher, Institute of Molecular Biology, University of Innsbruck

Poster presenters March 19



Ilke Sen, Assistant Professor, Department of Physiology and Pharmacology Karolinska Institutet/ Institut Mondor de Recherche Biomédicale, Paris



Vladimir Shavva, Assistant Professor, Department of Medicine Solna, Karolinska Institutet



Daniel Svensson, Senior Analytical Specialist, Xbrane Biopharma, Solna



Soile Tuomela, Project Manager, 3PBiovian, Turku, Finland

Speakers March 20



Lee Milligan, Director, Head of Global Early Talent, Novo Nordisk A/S



Ana Osório Oliveira, Coordinator, Karolinska Institutet Career Service



Vladimir Pabón-Martínez, Coordinator, Karolinska Institutet Career Service

Chairs



Juleen Zierath, Chairman Joint Steering Committee NN Postdoctoral Fellowship Programme at KI



Peter Kurtzhals, Joint Steering Committee member NN Postdoctoral Fellowship Programme at KI



Stefan Nobel, Program Manager NN Postdoctoral Fellowship Program at KI



Håkan Karlsson, Coordinator Central Administration KI, former Program Manager NN Postdoctoral Fellowship Program at KI



Dorthe Lundsgaard, Program Manager NN Postdoctoral Fellowship Program at KI, Senior Alliance Director, Innovation Outreach, Novo Nordisk A/S

Recruited fellows 2015-2024

Fellow	Years in the program	Department	Supervisor(s)
Ester Bachar-Wikström	2016-2019	CMB	Olov Andersson
Soile Tuomela	2016-2019	MedH	Malin Flodström Tullberg
Lars Ketscher	2016-2019	FYFA	Jorge Ruas
Montserrat Visa	2016-2019	MMK	Per-Olof Berggren
Lucile Dollet	2016-2019	FYFA/MMK	Anna Krook, Juleen Zierath
Isabel Cordero Herrera	2016-2019	FYFA	Mattias Carlström
Nicole Schmitner	2016-2019	CMB	Olov Andersson
Pauline Vercruyse	2016-2019	MMK	Christina Bark
Alastair Kerr	2016-2019	MedH	Ingrid Dahlman
Sanna Hellberg	2017-2020	MedS	Stephen Malin, Göran K Hansson
Kelvin Kwok	2017-2021	BioNut/MedH	Carsten Daub, Mikael Rydén, Peter Arner
Noah Moruzzi	2017-2020	MMK	Ingo Leibiger
Daniel Svensson	2018-2021	KBH	Hjalmar Brismar, Anita Aperia
Vladimir Shavva	2018-2021	MedS	Peder Olofsson
Lars Paeger	2019-2020	Neuro	Christian Broberger
Thomas Ebert	2019-2021	CLINTEC	Peter Stenvinkel, Annika Wernerson
David Rizo Roca	2019-2022	MMK/FYFA	Juleen Zierath, Anna Krook
Katharina Herzog	2019-2022	IMM	Sofia Carlsson
Osman Ahmed	2019-2023	MedS	Peder Olofsson, Stephen Malin
Alison Ludzki	2020-2023	MedH	Mikael Rydén, Peter Arner
Ilke Sen	2020-2023	FYFA	Anna Krook, Juleen Zierath
Aida Collado Sánchez	2020-2024	MedS	John Pernow, Per Eriksson and Zhichao Zhou

Recruited fellows 2015-2024

Prasad Kamble	2021-2022	MMK	Juleen Zierath
Kirstin MacGregor	2022-2024	MMK	Juleen Zierath
Scott Frendo-Cumbo	2021-2024	MedH	Mikael Rydén, Niklas Mejhert

List of participants

Last Name, First Name	Email
Ahmed, Osman	osman.ahmed@ki.se
Alaeddine, Lynn	lynn.alaeddine@ki.se
Andersen, Birgitte	btta@novonordisk.com
Andersson, Daniel	Daniel.c.andersson@ki.se
Andersson, Olov	olov.andersson@ki.se
Arvidsson, Ingela	ingela.arvidsson@ki.se
Bäckdahl, Jesper	jbackdahl@hotmail.com
Barthem, Clarissa	clarissa.barthem@su.se
Björnholm, Marie	marie.bjornholm@ki.se
Brice, Madara	madara.brice@ki.se
Brismar, Kerstin	kerstin.brismar@ki.se
Buttò, Lorenzo	lorenzo.butto@ki.se
Caballero Cebrian, Fernando	fercaballeroc@gmail.com
Cai, Min	min.cai@ki.se
Cannon, Barbara	barbara.cannon@su.se
Carlsson, Sofia	sofia.carlsson@ki.se
Cecchini, Valeria	valeria.cecchini@stud.ki.se
Chang, Christine	christine.chang@ki.se
Chen, Qiao Sen	Chen.qiaosen@ki.se
Chibalin, Alexander	alexander.chibalin@ki.se
Chronopoulou, Eleni	eleni.chronopoulou@ki.se
Collado, Aida	aida.collado.sanchez@ki.se
Colquhoun, Daniel	daniel.colquhoun@ki.se
Cowburn, Richard	Richard.Cowburn@ki.se
Dahlman, Ingrid	ingrid.dahlman@regionstockholm.se
Dai, Wanmin	wanmin.dai@ki.se
Dallner, Gustav	gustav.dallner@gmail.com
Dekanski, Anja	anja.dekanski@ki.se

List of participants

del Valle, Andrea	andrea.del.valle@ki.se
Deng, Qiaolin	qiaolin.deng@ki.se
Diamanti, Apostolia-Ioli	apostoliaioli.diamanti@stud.ki.se
Dollet, Lucile	lucile.dollet@sund.ku.dk
Dong, Xinran	xinran.dong@ki.se
Dorotea, Debra	debra.dorotea@ki.se
Dumont, Kyle	Kyle.dumont@ki.se
Eriksson, Per	per.eriksson@ki.se
Fan, Rongrong	rongrong.fan@ki.se
Flodström Tullberg, Malin	malin.flodstrom-tullberg@ki.se
Frendo-Cumbo, Scott	scott.frendocumbo@ki.se
Gorsek, Tina	tina.gorsek@ki.se
Grothen, Julius	jyqg@novonordisk.com
Hadjab, Saida	Saida.Hadjab@ki.se
Hagberg, Carolina	Carolina.Hagberg@ki.se
Härdfeldt, Jennifer	jennifer.hardfeldt@ki.se
He, Wenteng	wenteng.he@ki.se
Hellberg, Sanna	sanna.e.hellberg@gmail.com
Herzog, Katharina	Khhz@novonordisk.com
Idowu, Tade	tade.idowu@ki.se
Inci, Gözde	gozde.inci@ki.se
Iwamura, Yuma	yuma.iwamura@ki.se
Jiang, Hong	hong.jiang@ki.se
Jollet, Maxence	maxence.jollet@ki.se
Kallenberg, Christine	christine@atrog.com
Kants, Arja	arja.kants@ki.se
Karampatsi, Dimitra	dimitra.karampatsi@ki.se
Karlsson, Håkan	hakan.karlsson.1@ki.se
Karouta, Niki	nikhkarouta@gmail.com

List of participants

Katayama, Mutsumi	mutsumi.katayama@ki.se
Keipert, Susanne	susanne.keipert@su.se
Keller, Martin	martin.keller@ki.se
Kerr, Alastair	alastair.kerr@ki.se
Kodakkattil Nakulan, Jiji	jjikn1987@gmail.com
Kontidou, Eftychia	eftychia.kontidou@ki.se
Krook, Anna	anna.krook@ki.se
Kurtzhals, Peter	pkur@novonordisk.com
Kwok, Kelvin	kelvinkwokhm@gmail.com
Li, Congru	congru.li@ki.se
Liu, Ka-Cheuk	ka-cheuk.liu@ki.se
Lu, Haojiang	haojiang.lu@ki.se
Lundsgaard, Dorte	dolu@novonordisk.com
MacGregor, Kirstin	kirstin.macgregor@ki.se
Maestri, Alice	alice.maestri@ki.se
Malin, Stephen	stephen.malin@ki.se
Mamounis, Kyle	kyle.mamounis@ki.se
Mejhert, Niklas	niklas.mejhert@ki.se
Motso, Aikaterini	aikaterini.motso@su.se
Nedergaard, Jan	jan.nedergaard@su.se
Nivins, Samson	samson.nivins@ki.se
Nobel, Stefan	stefan.nobel@ki.se
Olofsson, Peder	Peder.Olofsson@ki.se
Osório Oliveira, Ana	ana.oliveira@ki.se
Ozora, Aurelia Maria	aozora@windowlive.com
Pabón-Martínez, Vladimir	vladimir.pabonmartinez@ki.se
Paget, Daan	Daan.paget@ki.se
Paulsson, Johan	jfpl@novonordisk.com
Pedersen, Thomas Åskov	tqpe@novonordisk.com

List of participants

Pereira Batista Sousa Filho, Celso	celso.sousa-filho@su.se
Pernow, John	john.pernow@ki.se
Petrus, Paul	paul.petrus@ki.se
Pfister, Dominik	DRPF@novonordisk.com
Qin, Zihan	zihan.qin@ki.se
Rajamand Ekberg, Neda	neda.ekberg@ki.se
Ren, Lipeng	lipeng.ren@ki.se
Rizo-Roca, David	david.rizo.roca@ki.se
Rydén, Mikael	mikael.ryden@ki.se
Sabatino, Alice	alice.sabatino@ki.se
Saliba Gustafsson, Peter	peter.gustafsson.1@ki.se
Salmón, Laura	laurasalmongomez@gmail.com
Samakovli, Christina Glykeria	christina.glykeria.samakovli.2@ki.se
Sánchez Ceinos, Julia	julia.sanchez.ceinos@ki.se
Sánchez Fernández, David	david.sanchezf@estudiante.uam.es
Savva, Christina	christina.savva@ki.se
Schipper, Ruby	schipper.ruby@gmail.com
Schmitner, Nicole	nicole.schmitner@uibk.ac.at
Schormair, Katharina	katharina.schormair@ki.se
Sen, Ilke	ilke.sen@ki.se
Shabalina, Irina	irina.shabalina@su.se
Shavva, Vladimir	vladimir.shavva@ki.se
Spalding, Kirsty	kirsty.spalding@ki.se
Stener-Victorin, Elisabet	elisabet.stener-victorin@ki.se
Svensson, Daniel	danielysvensson@gmail.com
Swaich, Jasmin	Jasmins@kth.se
Teixeira, Ana	ana.teixeira@ki.se
Thelin, Christopher	cthel@kth.se
Thukha, Thadoe	thadoe.thukha@stud.uni-goettingen.de

List of participants

Torstensson, Sara	sara.torstensson@ki.se
Tuomela, Soile	soile.tuomela@biovia.com
Vankova, Ana	ana.vankova@ki.se
Vlavcheski, Filip	filip.vlavcheski@ki.se
Wallin, Marita	Marita.wallin@ki.se
Witasp, Britt-Marie	brittmari.witasp@gmail.com
Xu, Zheng	zhengxu@link.cuhk.edu.hk
Yang, Jiangning	jiangning.yang@ki.se
Youhanna, Sonia	sonia.youhanna@ki.se
Yu, Xue	xue.yu@ki.se
Yu, Yinda	yinda.yu@ki.se
Zareifi, Danai Stella	danai.zareifi@ki.se
Zheng, Xiaowei	xiaowei.zheng@ki.se
Zhou, Zhichao	zhichao.zhou@ki.se
Zierath, Juleen	Juleen.Zierath@ki.se
Zingerle, Valentina	valentina.clio.zingerle@stud.ki.se



<https://ki.se/en/srp-diabetes/novo-nordisk-fellowships>