

STAFF-MALT MEETING 2024



VAESHARTELT CASTLE HOTEL
MAASTRICHT

11-14 SEPTEMBER

STAFF-MALT meetings organizing committee

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Anne Arundel Medical Center, Annapolis, United States

Pablo Laguna

Universidad de Zaragoza, Zaragoza, Spain

Olle Pahlm

Lund University, Lund, Sweden

Pyotr Platonov

Lund University, Lund, Sweden

Cees Swenne

Leiden University Medical Centre, Leiden, The Netherlands

Agnese Sbrollini

Università Politecnica delle Marche (UNIVPM), Ancona, Italy

Ksenia Sedova

Czech Technical University in Prague, Prague, Czech Republic

Local organizers (STALT24 Foundation)

Ton Gorgels, chairman

Cees Swenne, secretary

Mathee Swenne – van Ingen, treasurer

Janneke Gorgels – van Roosmalen, board member

The organizers would like to thank the following partners that supported the meeting

Medtronic

John & Eva Wang



Welcome to STAFF-MALT 2024

A warm welcome to all participants! We trust that Covid will stay well away from Maastricht also this year!

The Symposium will include participants from nine countries, and this will be the 20th meeting of both STAFF and MALT, which have now become combined in STAFF-MALT with the shared link being the interface of the electrocardiogram from a focus on ischemia (STAFF) and imaging (MALT).

Mentoring of young investigators and collaboration between researchers across international boundaries and between different disciplines have been guiding principles of both STAFF and MALT, fostered by keeping the Symposium invitational and limited in the number of participants.

After some years of a hybrid approach, with remote participation by the few who unavoidably could not participate in person, we have now again a meeting “in presence”! We are looking forward to an excellent program in an idyllic setting!

Enjoy....

Staff Warren, MD, FACC

Welcome to Vaeshartelt, Maastricht

It is a great pleasure to welcome you to the 20th edition of the Staff-Malt meetings, in the Vaeshartelt Castle in Maastricht. We are looking forward to a scientifically highly interesting meeting, with active discussions between young and senior investigators from various directions and countries, within the spirit of the late Galen Wagner, a true “University without Walls.”

The idyllic Vaeshartelt Castle is located near Maastricht. The history of this castle goes back several centuries. Once only a place to stay for royalty and nobility, nowadays we can all enjoy this castle hotel. The social event will bring us by solar train to the Maas River, where we will embark on a tour of historical Maastricht sites and visit the caves in the Sint Pietersberg.

We are grateful to all the participants who enabled us to establish this appealing scientific program and the sponsors who made this Symposium financially possible.

Ton Gorgels, chairman of the local organizing committee

SCIENTIFIC PROGRAM STAFF-MALT MEETING #20

MAASTRICHT, SEPTEMBER 11-14, 2024

WEDNESDAY, SEPTEMBER 11, 2024

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| 17:00 | 22:00 | <i>Welcome, Reception and Diner</i> |
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THURSDAY, SEPTEMBER 12, 2024

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| 7:30 | 8:00 | <i>Breakfast</i> |
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| 8:15 | 8:30 | <i>Opening: Staff Warren (Annapolis, MD) & Ton Gorgels (Maastricht, NL)</i> |
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SESSION 1: Simulation & modeling (moving equivalent dipole; basics & CineECG). Chairs: Cees Swenne (Leiden, NL) & Paul Volders (Maastricht, NL)

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| 1 | 8:30 | 9:00 | Lukas Zelieska, Bratislava, SK (YI, supervisor: Ksenia Sedova): Comparison of a patient-specific ventricular bidomain reaction-diffusion model and a cellular automaton-based model for PVC simulation |
| 2 | 9:00 | 9:30 | Vito Starc, Ljubljana, SL: My spatial ECG method and its similarities and differences from CineECG, emphasizing depolarization and repolarization variability in equivalent moving dipole trajectories |
| 3 | 9:30 | 10:00 | Iris van der Schaaf, Utrecht, NL (YI, supervisor: Peter van Dam): CineECG demonstrates abnormal electrical activity in asymptomatic plakophilin-2-pathogenic variant carriers with a normal 12-lead ECG |
| 4 | 10:00 | 10:30 | Brian Swinnen, Maastricht, NL (YI, supervisor: Ton Gorgels): Value of the Cine ECG to assess cardiac surgery-induced myocardial damage: the PRIMARY study |

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| | 10:30 | 10:45 | <i>Break</i> |
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SESSION 2: Left bundle branch block: ECG expressions and pacing. Chairs: Vito Starc (Ljubljana, SL) & Peter van Dam (Utrecht, NL)

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| 5 | 10:45 | 11:15 | Lennart Bergfeldt, Gothenburg, SE: Electrocardiographic analysis of abnormal QRS-T angles in general, and more specifically, LBBB |
| 6 | 11:15 | 11:45 | Smits, Karin, Maastricht, NL (YI, supervisor: Uyen Nguyen): Time-dependent activation and repolarization changes following left bundle branch area pacing versus conventional biventricular pacing in patients with dyssynchronous heart failure |
| 7 | 11:45 | 12:15 | Tadej Žlahtič, Ljubljana, SL (YI, supervisor: Vito Starc): Temporal evolution of repolarization parameters after cardiac resynchronization therapy: left bundle branch area pacing versus biventricular pacing |
| 8 | 12:15 | 12:45 | Anja Zupan Mežnar, Ljubljana, SL (YI, supervisor: Vito Starc): Identifying proximal left bundle branch block amenable to correction with conduction system pacing by equivalent dipole trajectories |

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| | 13:00 | 22:00 | <i>Lunch, Social Program & Diner</i> |
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FRIDAY, SEPTEMBER 13, 2024

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| 7:30 | 8:15 | Breakfast |
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SESSION 3: Ventricular tachycardia / ventricular fibrillation. Chairs: Alba Martin (Zaragoza, ES) & Uyen Nguyen (Maastricht, NL)

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| 9 | 8:30 | 9:00 | Paul Volders, Maastricht, NL: Arrhythmia susceptibility in patients with idiopathic ventricular fibrillation |
| 10 | 9:00 | 9:30 | Yesim Kaya, Maastricht, NL (YI, supervisor: Rachel ter Bekke): 3D precision targeting in radiotherapy for recurrent ventricular tachycardia: integration of multi-modality imaging |
| 11 | 9:30 | 10:00 | Inés Noguero Soler, Zaragoza, ES (YI, supervisor: Pablo Laguna): Risk assessment in hypertrophic cardiomyopathy based on ECG morphological descriptors and autonomic markers |

SESSION 4: Atrial fibrillation. Chairs: Agnese Sbröllini (Ancona, IT) & Staff Warren (Annapolis, MD)

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| 12 | 10:00 | 10:30 | Jean-Phillipe Couderc, Rochester, NY: Video-based detection of AFib using mobile devices |
| | 10:30 | 10:45 | Break |
| 13 | 10:45 | 11:15 | Marina Demidova, Lund, SE: Occlusion of atrial coronary branches during STEMI and its association with new-onset atrial fibrillation |
| 14 | 11:15 | 11:45 | Alba Martín Yebra, Zaragoza, ES: QT/RR adaptation time in paroxysmal atrial fibrillation patients |

SESSION 5: Congenital. Chair: Daniel Cortez (Sacramento, CA)

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| 15 | 11:45 | 12:15 | Frances Celine Melendres, Berkeley, CA (YI, supervisor: Daniel Cortez): Mahaim pathways in the pediatric population, including EKG/VCG findings |
| 16 | 12:15 | 12:45 | Alba Roquero-Isabel, Barcelona, ES (YI, supervisor: Pedro Gomis): Measurements and changes in the ECG of patients suffering from Brugada syndrome: a longitudinal study |

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| | 12:45 | 13:45 | Lunch |
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SESSION 6: Repolarization.

Chairs: Ksenia Sedova (Prague, CZ) & Rachel ter Bekke (Maastricht, NL)

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| 17 | 13:45 | 14:15 | Sofia Romagnoli, Zaragoza, ES: QT memory in athletes during physical exercise |
| 18 | 14:15 | 14:45 | Peter Deissler, Maastricht, NL (YI, supervisor: Paul Volders): The electromechanical window for arrhythmia-risk assessment |
| 19 | 14:45 | 15:15 | Neurys Gomez Fontseca, Zaragoza, ES (YI, supervisor: Pablo Laguna): Repolarization dynamics of T-peak-to-T-end time warping in an open-chest porcine model and its relation to arrhythmic events |
| 20 | 15:15 | 15:45 | Steffi Masilamani, Rochester, MN (YI, supervisor: Daniel Cortez): T-wave memory and VCG in predicting WPW recurrence |

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| | 15:45 | 16:00 | Break |
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SESSION 7: Ischemia. Chairs: Jan Azarov (Syktyvkar, RU) & Ton Gorgels (Maastricht, NL)

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| 21 | 16:00 | 16:30 | Manon Kloosterman, Utrecht, NL (YI, supervisor: Peter van Dam): Electrocardiographic imaging to improve our understanding of cardiac repolarization |
| 22 | 16:30 | 17:00 | Jafar Mortada, Ancona, IT (YI, supervisor: Agnese Sbröllini): On the electrocardiographic identification of myocardial bridge |
| 23 | 17:00 | 17:30 | Jan Azarov, Syktyvkar, RU: Different fashions of the ECG expression of depolarization and repolarization heterogeneities in the ischemic myocardium |

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| | 17:30 | 18:00 | Wrap up: Staff Warren (Annapolis, MD) |
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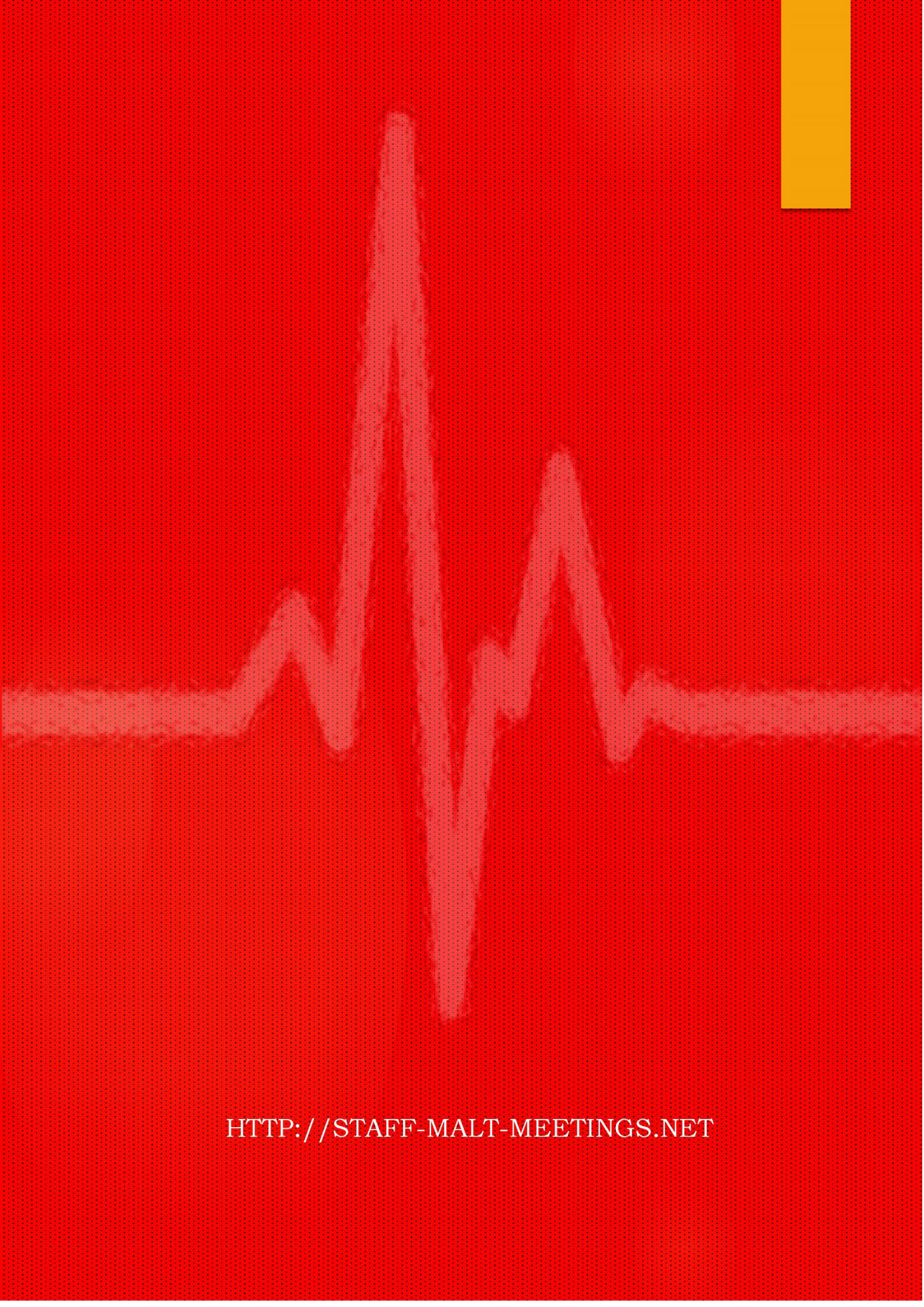
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| | 19:30 | 22:00 | Closing dinner; Master of Ceremonies: Olle Pahlm, Lund (SE) |
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SATURDAY, SEPTEMBER 14, 2024

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| | 7:30 | 10:00 | Closing breakfast |
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Participants

- ❖ Jan Azarov (j δ o t azarov α τ gmail δ o t com)
- ❖ Lennart Bergfeldt (lennart δ o t bergfeldt α τ gu δ o t se)
- ❖ Daniel Cortez (dr δ o t danielcortez α τ gmail δ o t com)
- ❖ Jean-Phillipe Couderc (jean-philippe δ o t couderc α τ heart δ o t rochester δ o t edu)
- ❖ Mirko De Melis (Mirko δ o t de δ o t melis α τ medtronic δ o t com)
- ❖ Peter Deissler, YI (peter δ o t deissler α τ maastrichtuniversity δ o t nl)
- ❖ Marina Demidova (marina δ o t m δ o t demidova α τ gmail δ o t com)
- ❖ Robert Den Engelsman (robert α τ physiologic δ o t nl)
- ❖ Neurys Gomez Fontseca, YI (ngomez α τ unizar δ o t es)
- ❖ Pedro Gomis (pedro δ o t gomis α τ gmail δ o t com)
- ❖ Ton Gorgels (tongorgels α τ gmail δ o t com)
- ❖ Yesim Kaya, YI (yesim δ o t kaya α τ mumc δ o t nl)
- ❖ Manon Kloosterman, YI (M δ o t Kloosterman-4 α τ umcutrecht δ o t nl)
- ❖ Lilian Kornet (Lilian δ o t kornet α τ medtronic δ o t com)
- ❖ Alba Martín Yebra (albamartinyebra α τ gmail δ o t com)
- ❖ Steffi Masilamani, YI (Masilamani δ o t MatsSteffiJen α τ mayo δ o t edu)
- ❖ Frances Celine Melendres, YI (fcdmelendres α τ berkeley δ o t edu)
- ❖ Jafar Mortada, YI (m δ o t j δ o t mortada α τ pm δ o t univpm δ o t it)
- ❖ Uyen Nguyen (u δ o t nguyen α τ maastrichtuniversity δ o t nl)
- ❖ Inés Noguero Soler, YI (inoguero α τ unizar δ o t es)
- ❖ Olle Pahlm (olle δ o t pahlm α τ med δ o t lu δ o t se)
- ❖ Sofia Romagnoli (sromagnoli α τ unizar δ o t es)
- ❖ Alba Roquero-Isabel, YI (albai δ o t roquero α τ gmail δ o t com)
- ❖ Agnese Sbrollini (a δ o t sbrollini α τ staff δ o t univpm δ o t it)
- ❖ Ksenia Sedova (sedova δ o t ks α τ gmail δ o t com)
- ❖ Karin Smits, YI (karin δ o t smits α τ maastrichtuniversity δ o t nl)
- ❖ Vito Starc (vito δ o t starc α τ mf δ o t uni-lj δ o t si)
- ❖ Kees Swenne (c δ o t a δ o t swenne α τ lumc δ o t nl)
- ❖ Brian Swinnen, YI (brian δ o t swinnen α τ mumc δ o t nl)
- ❖ Rachel Ter Bekke (rachel δ o t ter δ o t bekke α τ mumc δ o t nl)
- ❖ Peter Van Dam (peter δ o t van δ o t dam α τ peacs δ o t nl)
- ❖ Iris Van der Schaaf, YI (I δ o t vanderSchaaf-5 α τ umcutrecht δ o t nl)
- ❖ Paul Volders (p δ o t volders α τ mumc δ o t nl)
- ❖ Staff Warren (staffwarren α τ yahoo δ o t com)
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- ❖ Anja Zupan Mežnar, YI (anja δ o t zupanmeznar α τ gmail δ o t com)



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