

2025

10/11 January

EUROPEAN PROTEOMICS AMYLOID NETWORK

4th MEETING

Aula Volta
University of Pavia
Corso Strada Nuova, 65 – PAVIA

SCIENTIFIC COMMITTEE

Prof **Vittorio BELLOTTI**
Research Area, Fondazione IRCCS Policlinico San Matteo, Pavia
Department of Molecular Medicine, University of Pavia

Dr **Diana CANETTI**
Centre for Amyloidosis, Division of Medicine
University College London, UK

Prof **Sofia GIORGETTI**
Department of Molecular Medicine, University of Pavia
Research Area, Fondazione IRCCS Policlinico San Matteo, Pavia
National Institute of Biostructures and Biosystems

Prof **P. Patrizia MANGIONE**
Department of Molecular Medicine, University of Pavia
Research Area, Fondazione IRCCS Policlinico San Matteo, Pavia

Dr **Francesca LAVATELLI**
Department of Molecular Medicine, University of Pavia
Research Area, Fondazione IRCCS Policlinico San Matteo, Pavia

Prof **Christoph RÖCKEN**
Department of Pathology
University Medical Center, Schleswig-Holstein, Kiel, Germany

Dr **Graham W. TAYLOR**
Centre for Amyloidosis, Division of Medicine
University College London, UK

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Sistema Socio Sanitario



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THURSDAY, JANUARY 9

20:00 **ARRIVALS AND GET TOGETHER**
Vita Restaurant – Corso Giuseppe Mazzini, 10 – Pavia

FRIDAY, JANUARY 10

09:00 - 09:15 Introduction and Greetings
Vittorio BELLOTTI
Scientific Director Fondazione IRCCS Policlinico San Matteo, Pavia, Italy
Vincenzo PETRONELLA
General Director Fondazione IRCCS Policlinico San Matteo, Pavia, Italy
Antonella FORLINO
Pro-Rector for Internationalization, University of Pavia, Italy

09:15 - 10:00 TOPIC 1: Amyloid extraction and analysis: techniques

Chairperson: **Francesca LAVATELLI**

Raizel Fernandes – Inadequate samples: can we improve recovery and specificity?

Amelie Dendooven – Mass spectrometry analysis of amyloidosis in the context of BE.Amycon (a Belgian VIB-Grand Challenge project)

Paolo Milani - Amyloid typing by LC-MS of unfractionated unfixed abdominal fat aspirates. The Pavia Amyloidosis Center experience



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FRIDAY, JANUARY 10

10:00 - 10:45 TOPIC 2: Novel trends in instrumentation and workflows

Chairperson: **Diana CANETTI**

Andrew Smith - Toward the detection and typing of renal amyloidosis with a molecular and computational-guided Mass Spectrometry Imaging workflow

Francesco Greco - Protein deposit typing in cardiac amyloidosis by S-Trap-based microproteomics workflow"

Julie Courraud - Proteomics in amyloidosis typing - practical aspects and open questions concerning method validation

10:45- 11:15 *Coffee break*

11:15 - 12:00 **Mass Spec COMPANIES presentations**

12:00 - 12:30 TOPIC 3: Bioinformatics and AI, dealing with complexity

Chairperson: **Hans Christian BECK**

Alessandro Lascialfari - Artificial Intelligence in Medical Imaging analysis: current issues

Alessandra Corazza - Artificial intelligence for proteomics: challenging knowledge in systemic amyloidosis.

12:30 - 14:00 *Lunch / Poster presentation*



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14:15 - 15:00 TOPIC 4: Databases and data sharing

Chairperson: **Graham W. TAYLOR**

Vincenzo L'Imperio – Amyloidosis detection with combined computational/proteomics approach: the nephropathologist perspective

Gareth Morgan (online) - AL-Base: An updated resource for studying amyloidogenic light chain proteins

Ellen McPhail (online) – Optical spectroscopic detection and typing of Cardiac Amyloidosis

15:00 - 16:00 TOPIC 5: Beyond typing: proteomics for disease understanding

Chairpersons: **Christoph RÖCKEN** and **Vittorio BELLOTTI**

Masaya Ikegawa - Spatial multi-omics study delineates significant link between amyloid pathology and sphingolipids in Alzheimer's Disease brain

Benedetta Fongaro - Native-mass spectrometry as a suitable tool to select new scaffold for the inhibition of protein aggregation

Francesca Lavatelli - Proteomic insights on proteolytic remodeling of amyloid proteins in tissue deposits

Juliane Gottwald - The proteomic landscape of cardiac amyloidosis

16:00 - 16:30 *Coffee break*



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16:30 - 17:00 TOPIC 6: How do you know you are right? "Here is my problem" space: ask EPAN for a second opinion

Chairpersons: **Bouke HAZENBERG and Frank BRIDOUX**

Melinda Raki – Light chains: which thresholds to use for accepting hits?
Yukako Shintani-Domoto - Research collaboration in Japanese Proteomics Amyloid Network (JAPAN): Developing new diagnostic antibodies and overcoming difficulties in verifying LMD-LC-MS/MS data

20:00

Dinner

Pizzeria Ristorante Bella Napoli, Piazza Vittoria 10, Pavia

SATURDAY, JANUARY 11

09:00 - 10:30 Results and discussion of the survey which has been conducted among all the participants on various topics including heterogeneity in recognition of amyloid typing systems in Europe; European database and data sharing; privacy issues; accreditation and reimbursement; greatest unmet scientific and administrative needs

Chairpersons: **Hironobu NAIKI, Julian GILLMORE and Diana CANETTI**

10:30 - 12:30 OPEN DISCUSSION

Chairpersons: **Christoph RÖCKEN, Per WESTERMARK and Laura OBICI**



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Vittorio BELLOTTI

Fondazione IRCCS Policlinico San Matteo and University of Pavia, Italy

Hans Christian BECK

Odense University Hospital and University of Southern Denmark, Odense, Denmark

Frank BRIDOUX

Centre Hospitalier Universitaire de Poitiers, France

Diana CANETTI

Centre for Amyloidosis, University College London (UK)

Alessandra CORAZZA

University of Udine, Udine, Italy

Julie COURRAUD

University of Athens, Greece

Amelia DENDOOVEN

Ghent University Hospital, Ghent, Belgium

Raizel FERNANDES

National Amyloidosis Centre, Royal Free Hospital, London, UK

Benedetta FONGARO

University of Padova, Italy

Julian D. GILLMORE

National Amyloidosis Centre, University College London
and Royal Free Hospital, London, UK



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Juliane GOTTWALD

University Medical Center Schleswig-Holstein, Kiel, Germany

Francesco GRECO

Fondazione Toscana Gabriele Monasterio, Pisa, Italy

Bouke HAZENBERG

University of Groningen, Netherlands

Masaya IKEGAWA

Doshisha University, Kyoto, Japan

Alessandro LASCIALFARI

University of Pavia, Pavia, Italy

Vincenzo L'IMPERIO

University of Milano Bicocca, Milano, Italy

Francesca LAVATELLI

University of Pavia and Fondazione IRCCS Policlinico San Matteo, Pavia, Italy

Ellen McPHAIL

Mayo Clinic, Rochester, USA

Paolo MILANI

University of Pavia and Fondazione IRCCS Policlinico San Matteo, Pavia, Italy

Gareth MORGAN

Amyloidosis Center, Boston University, USA



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Hironobu NAIKI

University of Fukui, Fukui, Japan

Laura OBICI

Fondazione IRCCS Policlinico San Matteo, Pavia (Italy)

Melinda RAKI

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Christoph RÖCKEN

University Medical Center Schleswig-Holstein, Kiel, Germany

Yukako SHINTANI-DOMOTO

University of Tokyo, Japan

Andrew SMITH

University of Milano Bicocca, Milano, Italy

Graham W. TAYLOR

Centre for Amyloidosis, University College London, UK

Per WESTERMARK

Uppsala University, Uppsala, Sweden



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SCIENTIFIC RATIONALE

EPAN was inaugurated in London in December 2017 as an informal discussion group for those using proteomics for amyloidosis research and/or clinical diagnosis. The aim of the consortium is to share best practice, encourage discussion and act as a central forum to facilitate inter-laboratory data and sample sharing.

Groups from France, Greece, Germany, Italy, Netherlands, Spain, Poland, Sweden and the UK are involved with EPAN, with contributions from Argentina, Australia, Japan and USA.

(<https://www.ucl.ac.uk/amyloidosis/national-amyloidosis-centre/uk-amyloid-proteomics-facility/ukampro-research/european-proteomics>).

Target of the 4th European Proteomics Amyloid Network meeting (EPAN):

Clinicians and researchers using proteomics for clinical diagnosis and/or research in amyloidosis.

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