XIIIth International Symposium on Amyloidosis

From Misfolded Proteins to Well-Designed Treatment



ISA INTERNATIONAL SOCIETY OF AMYLOIDOSIS



May 6 - 10, 2012

Groningen, The Netherlands

University Medical Center Groningen

Program

Sunday, May 6	
12.00	Registration opens in UMCG ('Fonteinpatio')
15.30-16.00	Coffee
16.00-16.30	Opening ceremony ('Blauwe Zaal')
16.00-16.10	Welcome address - Van Rijswijk
16.10-16.20	Introduction to the symposium - Hazenberg
16.20-16.30	A patient's experience and perspective - Magalhaes
16.30-17.00	Opening Lecture: History of Amyloidosis - Kyle
17.00-17.30	Keynote Lecture: Amyloid in semen boosts HIV-1 transmission - Münch
18.00-18.30	Walk to the University Building
18.30-20.30	Welcome party; offered to you by the University of Groningen, the Municipality of Groningen
	and the Province of Groningen (University Building)
18.30-18.45	Welcome address - Poppema
18.45-20.30	Refreshments, party
20.00-21.30	ISA Board Meeting ('Engelse Zaal' in University Building)
Monday, May 7	
7.30-8.00	Coffee ('Fonteinpatio')
8.00-8.30	Enno Mandema Memorial Lecture ('Blauwe Zaal'):
	Amyloidosis: 1979-2012 Sir Mark Pepys
8.30-10.20	Plenary session 1: Fibril and Amyloid Formation. Chairmen: Seldin and Limburg
8.35	State of the art - Fändrich
8.50	OP 01 Aggregates of the Alzheimer's Disease Amyloid Peptide Aβ40 Studied by
	Solid State NMR. Lopez del Amo (München, Germany)
9.02	OP 02 Structural modulation of Aβ□ fibrils by glycosaminoglycans. Madine (liverpool, UK)
9.14	OP 03 Structure and pathogenicity of mature fibrils and their structural precursors. Fändrich (Halle, Germany)
9.26	OP 04 Towards a cure for Parkinson's Disease: inhibitors of α-synuclein aggregation.
	Lorenzen (Aarhus, Denmark)
9.38	OP 05 In vivo and in vitro anti-Amyloid functions of the systemic amyloid precursor
	Transthyretin (TTR). Buxbaum (San Diego, USA)
9.50	OP 06 Two types of fibril compositions in ATTR amyloidosis and their correlation to clinical
	phenotype. Ihse (Upsala, Sweden)
10.02	Perspectives - Bellotti
10.20-10.45	Coffee break ('Fonteinpatio')
10.45-12.30	Plenary session 2: Cell and tissue targeting and toxicity ('Blauwe Zaal')
	Chairmen: Grateau and Luiten
10.45	State of the art - Kisilevsky
11.00	OP 07 Biochemical properties of highly virulent prion strains. Sigurdson (San Diego, USA)
11.12	OP 08 Detection of endogenous amyloid fibrils in human semen. Usmani (Ulm, Germany)

11.24	OP 09	A proteomic approach to unravel the cytotoxic responses to different aggregation-
		prone proteins. Picotti (Zürich, Switzerland)
11.36	OP 10	Investigating vulnerability to proteasome inhibition in primary light chain amyloidosis
		Oliva (Milano, Italy)
11.48	OP 11	Unique features that characterize urinary exosomes in light chain amyloidosis (AL).
		Ramirez-Alvarado (Rochester, USA)
12.00	OP 12	Fighting familial amyloidosis using an impaired ER-stress response yeast strain.
		Rodrigues (Lisboa, Portugal)
12.12	Perspe	ctives - Buxbaum
12.30-14.00	Lunch	(Sponsor Spectral Imaging) in the 'Fonteinpatio'
13.00-14.00	Poster	viewing individually ('Blauwe Patio')
14.00-16.00	Plenar	y session 3: Animal models and cell culture systems ('Blauwe Zaal')
	Chairpe	ersons: Gruys and G. Westermark
14.00	State o	f the art - Saraiva
14.15	OP 13	Heparin/Chitosan nanoparticle delivery system for in vivo evaluation of
		glycosaminoglycans influence on transthyretin deposition. Gonçalves (Porto, Portugal)
14.27	OP 14	Multi-system disease-specific induced pluripotent stem cell modeling of familial
		amyloidosis. Leung (Boston, USA)
14.39	OP 15	Anti-amyloid drug development using Drosophila as a model. Segal (Tel Aviv, Israel)
14.51	OP 16	$\emph{C. elegans}$ expressing human $\beta 2\text{-m}$ recapitulates the molecular mechanisms
		underlying dialysis-related amyloidosis. Soria (Pavia, Italy)
15.03	OP 17	Doxycycline Interaction with Amyloidogenic Proteins and Activity in Mouse Models.
		Ward (Boston, USA)
15.15	OP 18	An all human cell culture model of AA amyloid formation: human serum amyloid A
		(SAA) and human peripheral blood monouclear cells (PBMC). Ishii (Indianapolis, USA)
15.27	OP 19	Macrophage-mediated natural clearance of Amyloid A is not impaired in the absence of
		immunoglobulins or central complement factors. Sponarova (Zürich, Switzerland)
15.40	Perspe	ctives - Kluve-Beckerman
16.00-16.30	Tea bro	eak ('Fonteinpatio')
16.30-17.30	Poster	viewing (PA 1-65) in 5 groups ('Blauwe Patio')
17.30-18.00	Selecte	ed poster presentations PA 15, PA 22, PA 51, PA 53, and PA 54 ('Blauwe Zaal')
	Chairm	en: Limburg and Gruys
17.00-18.00	Meeting	gs: Nomenclature Committee; other working groups and committees ('Lokaal 10, 15')
18.00-19.30	Buffet	in UMCG ('Fonteinpatio')
19.30-22.00	Plenar	y session 4: Looking for consensus ('Blauwe Zaal')
19.30	Early d	etection of amyloid; reporting - Picken, P. Westermark, Hazenberg
20.20	Organ i	involvement and response criteria in AL - Gertz, Wechalekar, Palladini
21.10	Organ i	involvement and response criteria in non-AL - Suhr, Obici, Lachmann, Merkies
22.00	Closing	I

Tuesday, May 8

7.30-8.00	Coffee ('Fonteinpatio')
8.00-10.05	Plenary session 5: Diagnosis and typing: Histochemistry and proteomics ('Blauwe Zaal')
	Chairmen: Linke and Kluin

8.00	State of the art - Röcken
8.15	OP 20 Amyloid fibrils possess characteristic electronegative fingerprints that can be
	distinguished by poly-basic peptides. Wall (Knoxville, USA)
8.27	OP 21 Luminescent conjugated oligothiophenes: two new dyes for amyloid screening
	diagnostics. Sjölander (Linköping, Sweden)
8.39	OP 22 Accuracy of routine amyloid typing using immunohistochemistry on a large number of
	consecutive patients: preconditions for its success and validation. Linke (Martinsried,
	Germany)
8.51	OP 23 An indirect ELISA for transthyretin quantification in fat tissue of patients with ATTR
	Amyloidosis. Hazenberg (Groningen, The Netherlands)
9.03	OP 24 A native human monclonal IgG with pan-amyloid binding specificity. Dessain
	(Wynnewood, USA)
9.15	OP 25 Diagnosis of Amyloidosis Subtype by Laser-Capture Microdissection (LCM) and
	Tandem Mass Spectrometry (MS) Proteomic Analysis. Mollee (Brisbane, Australia)
9.27	OP 26 Mass spectrometry based proteomics for classification of amyloidosis: Mayo Clinic
	Experience. Dogan (Rochester, USA)
9.39	OP 27 A comparison of immunohistochemistry and mass spectrometry for determining the
	amyloid fibril protein from formalin fixed biopsy tissue. Gilbertson (London, UK)
9.51	Perspectives - Dogan
10.05-10.30	Coffee break ('Fonteinpatio')
10.30-12.30	Plenary session 6: Imaging in amyloidosis ('Blauwe Zaal')
	Chairmen: Van Rijswijk and Glaudemans
10.30	State of the art - Hawkins
10.45	OP 28 Patterns of late gadolinium enhancement and survival in cardiac amyloidosis: a
	systematic review of 95 patients with AL or ATTR type. Dungu (London, UK)
10.57	OP 29 ^{99m} Tc-3,3-Diphosphono-1,2-Propanodicarboxylic Acid (^{99m} Tc DPD) scintigraphy in 171
	patients with suspected systemic amyloidosis. Hutt (London, UK)
11.09	OP 30 Accuracy of 99mTc-HMPD myocardial scintigraphy for the diagnosis of cardiac
	involvement in patients with familial amyloid polyneuropathie. Algalarrondo (Clamart,
	France)
11.21	OP 31 lodine-123 metaiodobenzylguanidine for the evaluation of cardiac sympathetic
	denervation in early stage amyloidosis. Noordzij (Groningen, The Netherlands)
11.33	OP 32 The added value of SPECT(-CT) compared with planar ¹²³ I-SAP scintigraphy in
	patients with systemic amyloidosis. Van Rheenen (Groningen, The Netherlands)
11.45	OP 33 AL amyloid imaging and therapy with an amyloid specific monoclonal antibody. Wall
	(Knoxville, USA)
11.57	OP 34 Radioimmunoimaging of Patients with AL Amyloidosis. Wells (Knoxville, USA)
12.10	Perspectives - Wall
12.30-14.00	Lunch (Sponsor Alnylam) in the 'Fonteinpatio'
13.00-14.00	Poster viewing individually ('Blauwe Patio')
14.00-16.30	Plenary session 7: Biology, clinics and prognosis in AL amyloidosis ('Blauwe Zaal')
	Chairpersons: Comenzo and Croockewit
14.00	State of the art - Merlini

14.15	OP 35 Diagnostic performance of the novel monoclonal assay for the measurement of circulating free light chain (FLC) in 220 consecutive newly-diagnosed patients with AL amyloidosis. Palladini (Pavia, Italy)
14.27	OP 36 A Revised Prognostic Staging System for Light Chain Amyloidosis (AL) Incorporating Cardiac Biomarkers and Serum Free Light Chain Measurements. Kumar (Rochester, USA)
14.39	OP 37 Coronary Microvascular Function in Cardiac Amyloidosis. Dorbala (Boston, USA)
14.51	OP 38 Depressed midwall fractional shortening is a powerful prognostic determinant in cardiac AL amylodosis. Perlini (Pavia, Italy)
15.03	OP 39 ALchemy - A Large Prospective 'Real World' Study of Chemotherapy in AL Amyloidosis. Gillmore (London, UK)
15.15	OP 40 Prognostic significance of cytogenetic aberrations in light chain amyloidosis patients treated with melphalan / dexamethasone as first-line therapy. Schönland (Heidelberg, Germany)
15.27	OP 41 A Framework for Clinical Research in Systemic Light-chain (AL) Amyloidosis:
	Consensus Report of the First Amyloidosis Foundation Roundtable. Comenzo (Boston, USA)
15.39	OP 42 An Italian single center prospective study on outcomes in AL amyloidosis. Palladini (Pavia, Italy)
15.51	OP 43 Outcomes and Treatment of Relapsed Systemic Amyloidosis. Warsame (Rochester, USA)
16.03	OP 44 Solid organ transplantation in AL amyloidosis and monoclonal immunoglobulin deposition disease: the French experience. Desport (Poitiers, France)
16.15	Perspectives - Gertz
14.00	Welcome and Aim of the Workshop - Hammarström
14.30	The use of LCP probes for classification of amyloid deposits - Nilsson
15.30	Hyperspectral-imaging for direct analysis of LCP-coupled amyloid deposits - Sluszny
16.30-17.00	Tea break ('Fonteinpatio')
	Chair: Hazenberg
17.00	Welcome - Hazenberg
17.05	Unravelling the TTR misfolding hypothesis - Kelly
17.30	New approaches to the management of TTR-FAP – Coelho
17.55	Conclusions - Hazenberg
18.00-19.30 18.00-19.00	Drinks and snacks (Sponsor Proteotech) in the 'Fonteinpatio'
19.00-19.00	Poster viewing (PB 1-66) in 5 groups ('Blauwe Patio') Selected poster presentations BB 12 BB 41 BB 45 BB 47 and BB 66 ('Blauwe Zaal')
13.00-13.30	Selected poster presentations PB 12, PB 41, PB 45, PB 47, and PB 66 <i>('Blauwe Zaal')</i> Chairpersons: Croockewit and Van Rijswijk
18.30-19.30	Committee Meetings ('Lokaal 15 and W2270')
19.30-20.00	Walk to the restaurant
20.00-22.30	Dinner in Ni Hao wok restaurant
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Wednesday, May 9

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7.30-8.00	Coffee ('Fonteinpatio')
8.00-9.50	Plenary session 8: Biology, clinics and prognosis in ATTR amyloidosis ('Blauwe Zaal')
	Chairmen: Suhr and Van den Berg
8.00	State of the art - Ikeda
8.15	OP 45 First online registry of mutations in hereditary amyloidosis: amyloidosismutations.com. Rowczenio (London, UK)
8.27	OP 46 The Prevalence of Holter Abnormalities in ATTR Cardiac Amyloidosis. Maurer (New York, USA)
8.39	OP 47 Circadian rhythm of blood pressure reflects the severity of cardiac impairment in Familial Amyloid Polyneuropathy. Algalarrondo (Clamart, France)
8.51	OP 48 Senile Systemic Amyloidosis: a large cohort study detailing clinical features, laboratory results, and survival. Connors (Boston, USA)
9.03	OP 49 Systematic review of 1142 admissions with acute heart failure reveals high frequency of transthyretin V122I cardiac amyloidosis in Afro-Caribbean patients. Dungu (London, UK)
9.15	OP 50 Comparison of V122I and Senile Cardiac Amyloidosis: Differences in Clinical Features and Outcomes. Maurer (New York, USA)
9.30	Perspectives - Berk
9.50-11.05	Plenary session 9: Biology, clinics and prognosis in AA (and other types of) amyloidosis
	Chairpersons: Lachmann and Van Gameren
9.50	State of the art - Livneh
10.05	OP 51 A single centre 20 year case series of AA amyloidosis – changing epidemiology. Lachmann (London, UK)
10.17	OP 52 Long term effectiveness of surgery in localized laryngeal amyloidosis. Hazenberg (Groningen, The Netherlands)
10.29	OP 53 First liver and kidney transplant for leukocyte chemotactic factor 2-amyloidosis presenting with acute liver failure. Fix (San Francisco, USA)
10.41	OP 54 The role of liver transplantation in the hereditary amyloidoses; the U.K experience. Stangou (Birmingham, UK)
10.53	Perspectives - Skinner
11.05-11.30	Coffee break (Sponsor GSK) in the 'Fonteinpatio'
11.30-13.00	Plenary session 10: Therapy of ATTR amyloidosis ('Blauwe Zaal')
	Chairpersons: Haagsma and Kuks
11.30	State of the art - Ando
11.45	OP 55 Familial Dynamics, Attachment and Psychopathology in FAP Patients. Lopes (Porto, Portugal)
11.57	OP 56 Tolerability of diflunisal therapy in patients with transthyretin amyloidosis. Whelan (London, UK)
12.09	OP 57 Can development of post liver transplant cardiomyopathy be predicted from amyloid fibril composition? Suhr (Umea, Sweden)
12.21	OP 58 Long term Effect of Liver transplantation on FAP on the neuropathy: Risk factors for progression of the walking disability. The 18 years French experience: a monocentric study in 200 patients. Adams (Paris, France)

12.33	OP 59 Treatment of Advanced Heart Failure in Cardiac Amyloidosis with Left Ventricular
12.00	Assist Device Therapy. Swiecicki (Rochester, USA)
12.45	Perspectives - Zeldenrust
13.00-14.30	Lunch ('Fonteinpatio')
13.30-14.30	Poster viewing individually ('Blauwe Patio')
13.00-14.30	Business meeting of the ISA ('Lokaal 16')
14.30-16.15	Plenary session 11: Chemotherapy in AL amyloidosis ('Blauwe Zaal')
	Chairmen: Palladini and Vellenga
14.30	State of the art - Dispenzieri
14.45	OP 60 Evaluation of an early switch to second line chemotherapy in AL amyloidosis among
	patients who fail to achieve a very good partial response to frontline treatment.
	Wechalekar (London, UK)
14.57	OP 61 A phase I / II study of Lenalidomide with low dose oral cyclophosphamide and low dose
	dexamethasone (RdC) in AL amyloidosis. Kastritis (Athens, Greece)
15.09	OP 62 Efficacy of Bortezomib/Cyclophosphamide/Dexamethasone (VCD) Chemotherapy In
	Naive Patients with High Risk Cardiac Light Chain Amyloidosis (Mayo Clinic stage III).
	Jaccard (Limoges, France)
15.21	OP 63 Salvage therapy with bendamustine and prednisone (BeP) in AL amyloidosis: a pilot
	study. Milani (Pavia, Italy)
15.33	OP 64 The Activity of Pomalidomide in Patients with Immunoglobulin Light Chain Amyloidosis.
	Dispenzieri (Rochester, USA)
15.45	OP 65 Phase I study of MLN9708, a novel, investigational oral proteasome inhibitor, in
	patients with relapsed or refractory light-chain amyloidosis (AL). Sanchorawala
	(Boston, USA)
16.00	Perspectives - Schönland
16.15-16.30	ISA information: AMYLOID Journal – P. Westermark
16.30-17.00	Tea break (Sponsor GSK) in the 'Fonteinpatio'
16.30-17.15	Poster viewing (PC 1-66) in 5 groups ('Blauwe Patio')
17.15-17.45	Selected Poster presentations PC 08, PC 28, PC 45, PC 50, and PC 61 ('Blauwe Zaal')
	Chairpersons: Minnema and Kuks
17.45-18.00	Walk to the Groninger Museum
18.00-20.00	Visit Groninger Museum
20.00-20.30	Walk to the Der Aa Church
20.30-23.30	Congress Dinner and awards presentation ('Der Aa Church')
Thursday, May	v 10
7.30-8.00	Coffee ('Fonteinpatio')
8.00-10.30	Plenary session 12: Design of targeted molecules and innovative drugs ('Blauwe Zaal')

7.30-8.00	Coffee ('Fonteinpatio')
8.00-10.30	Plenary session 12: Design of targeted molecules and innovative drugs ('Blauwe Zaal')
	Chairmen: Ando and Hazenberg
8.00	State of the art - Seldin
8.15	OP 66 Intrinsic Apoptosis Can Occur Promptly After Silencing Lambda Light Chain Genes in
	Human Clonal Plasma Cells. Zhou (Boston, USA)

8.27	OP 67 Marked Removal and Clearance of AA Amyloid Deposits in Target Organs (Kidney, Liver and Spleen) by the Small Molecule Systebryl TM Following Oral Administration: A Potential Break-through Drug for the Treatment of Systemic AA Amyloidosis. Snow (Kirkland, USA)
8.39	OP 68 A clinical Phase 3 confirmatory trial of eprodisate in the treatment of AA amyloidosis patients. Garceau (Laval, Canada)
8.51	OP 69 The Diflunisal Trial: Demographics, baseline neurologic staging, and adverse events. Berk (Boston, USA)
9.03	OP 70 Curcumin as a novel natural compound acting as TTR amyloidosis inhibitor <i>in vivo</i> . Ferreira (Porto, Portugal)
9.15	OP 71 Safety and efficacy of doxycycline plus tauroursodeoxycholic acid in transthyretin amyloidosis. Obici (Pavia, Italy)
9.27	OP 72 Antibody therapy against amyloid forms of transthyretin for familial amyloidotic polyneuropathy. Su (Kumamoto, Japan)
9.39	OP 73 Clinical Development of an Antisense Therapy for the Treatment of Hereditary Transthyretin Amyloidosis. Ackermann (Carlsbad, USA)
9.51	OP 74 Final Phase I safety, pharmacokinetic and pharmacodynamic results for ALN-TTR01, a novel RNAi therapeutic for the treatment of transthyretin amyloidosis. Coelho (Porto, Portugal)
10.03	OP 75 RNAi therapy using cholesterol-conjugated siRNA for TTR-related ocular amyloidosis. Tasaki (Kumamoto, Japan)
10.15	Perspectives - Benson
10.30-11.00	Coffee break ('Fonteinpatio')
11.00-12.00	Closing session: Conclusions and prospects ('Blauwe Zaal')
	Chair: Van Rijswijk
11.00	Monday: Basic research - P. Westermark
11.15	Tuesday/Wednesday: Clinical challenges - Skinner
11.30	Wednesday/Thursday: Therapeutic prospects - Merlini
11.45	Closing remarks - Hazenberg
12.00-13.00	Lunch ('Fonteinpatio')
12.00-13.00	Certificates of attendance ('Fonteinpatio')
14.00-18.00	PATIENTS' AFTERNOON: LIVING WITH AMYLOID
13.30-14.00	Registration and coffee ('Fonteinpatio')
14.00-15.20	Plenary session 1: Information about Amyloidosis, the disease ('Blauwe Zaal')
	Chair: Hazenberg
14.00	Welcome, introduction - Hazenberg
14.05	Amyloid, typing, disease manifestations - Hazenberg
14.20	Neuropathy as example of ATTR amyloidosis; treatment principles - Vrancken
14.35	Cardiomyopathy and nephropathy as examples of AL: treatment principles - Minnema
14.50	New developments in diagnosis; an overview - Skinner
15.05	New developments in treatment; an overview - Merlini

Program

15.20-15.40	Tea break, collection of questions ('Fonteinpatio')
15.40-17.00	Plenary session 2: Do we need a patients' organization? ('Blauwe Zaal')
15.40	Amyloidosis in Australia - Neely
15.50	Participation of patients and their organizations in research, cure and care - Oosterwijk
16.05	My experiences in establishing a patient's organization for a rare disease - Smit
16.20	Panel discussion
16.50	Summary of the afternoon; prospects and plans; closing part - Hazenberg
17.00-17.45	Refreshing drinks and informal discussion ('Fonteinpatio')