

QUALITY ASSURANCE IN LABORATORY TESTING FOR IEM

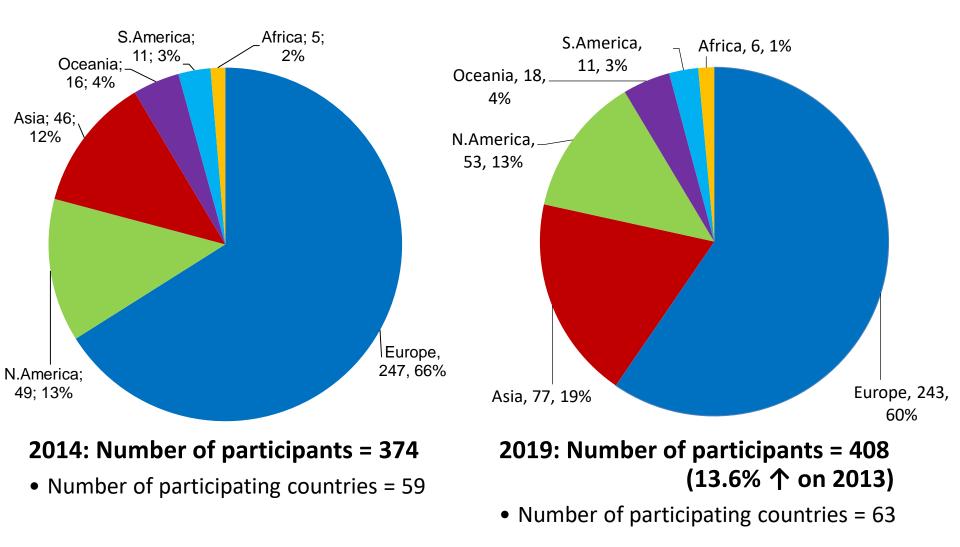
Exec Chair's Update

George Ruijter Rotterdam September 3rd, 2019

ERNDIM: Participants



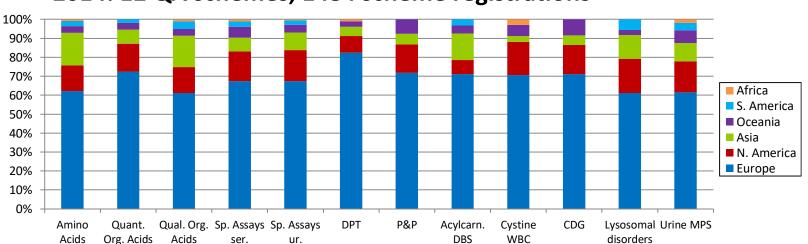
QUALITY ASSURANCE IN LABORATORY TESTING FOR IEM



ERNDIM: EQA Schemes

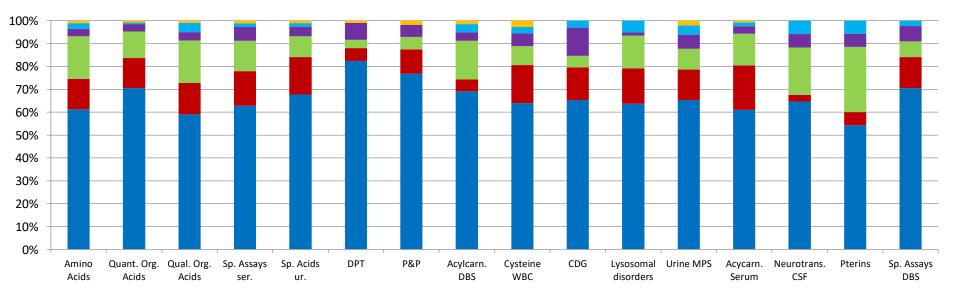


QUALITY ASSURANCE IN LABORATORY TESTING FOR IEM



2014: 12 QA schemes, 1484 scheme registrations

2019: 16 QA schemes, 1953 scheme registrations, (32% 个 on 2014)



ERNDIM: EQA Schemes



Pilot schemes running in 2019

1. Cognitive Amino Acids, lead organiser is Prof Brian Fowler (Basel/Zurich, Switzerland)

Please let us know your ideas for new EQA schemes

Workshops

- To discuss results & format
- Lysosomal enzymes in Fib: September 3, 2019
- Other scheme(s) in 2020 etc

ERNDIM: EQA Schemes



Hybrid schemes vs. Quantitative/Interpretative schemes

Lysosomal enzymes in Fib

• Quantitation (enzyme activity) + interpretation (diagnosis) scored

Neurotransmitters in CSF & Pterins in Urine

- Interpretation introduced in 2018
- Pilot scoring interpretation of 2019 schemes

Cystine in WBC

• Interpretation introduced and pilot scoring 2020

ERNDIM: Changes to EQA calendar



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- In the past annual reports and certificates of participation have been published very late (July/August)
- Requests, made by you, to spread submission deadlines more evenly over the year

			COUCHE VEAD 4		SCHEME YEA	AR											SCHEME Y	YEAR +1	
SCHEME YEAR -1	Resp Offic SA	Earlier registrati	ion	lecember	r january	february	march	april	il may	june	july	ily august	september	october	november	december	january	february	march
	SA	Prepare samples																	
	SA	Ship samples to CSCQ/MCA by courier, deadline dec 15																	
	SA	Send sample information to CSCQ by email (use template), deadline dec 15																	
	CSCQ/MCA	Prepare sample aliquots	Earl	ier sa	ampl	e shi	ipm	ner	nt										
SCHEME YEAR	CSCQ/MCA	Ship 1 set of samples to SA for testing, deadline jan 15																	
	SA	Prepare letter that will be dispatched with samples and send to CSCQ by email																	
	SA	Test samples																	
	Office	Send lists of participants to SA and CSCQ, deadline jan 31																	
	CSCQ/MCA	Ship samples with dispatch letter to each participant, 1st week of feb		Earlier result submission deadlines															
	SA/CSCQ	2/3 surveys, dates to be decided for: website availability, scoring, interim reports																	
	SA	2nd evaluation DPT schemes																	
	SA	PP &CE discussion (meeting)																	
	SAB	SAB meeting to decide final scores and critical errors, last week of nov																	
	SA	Prepare and distribute annual reports, deadline dec31												Ea	rlie	· cor	nple	etior	ו EQ
SCHEME YEAR +1	SA/office	Send performance support/non submission letters, deadline feb 28															Iem		
	Office/MCA	Prepare and distribute certificates, deadline march 31																	

ERNDIM: Changes to EQA calendar



QUALITY ASSURANCE IN LABORATORY TESTING FOR IEM

ACCOMPLISHED

2018 schemes

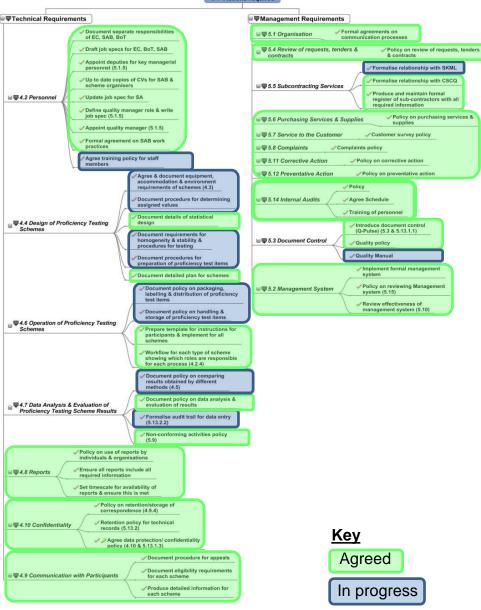
- Earlier sample dispatch and submission dates
- Most 2018 annual reports finished February 2019
- Scheme year 2018 finished (issue of certificates) in April 2019

PLANS

2019 & 2020 schemes

- Finish scheme year in March of following year 2021 schemes
- Distribute submission dates of quantitative schemes more equally over the year: January-June, September, October (currently March-October)

ERNDIM: Path to accreditation





QUALITY ASSURANCE IN LABORATORY TESTING FOR IEM

- ISO/IEC 17043 specifies the standards to be met for all aspects of a proficiency testing scheme and the management of the proficiency testing provider
- Management requirements were prioritised but now working on the Technical Requirements
- Aiming to submit initial application in early 2020

ERNDIM: Path to accreditation

Progress so far:

- Document control system
- Management system
- Policies and procedures in progress
- Formal Internal audit calendar
- Formal agreements with sub-contractors in progress
- All qualitative schemes: centralised sample dispatch and online results submission

	DPT	Urine MPS	CDG	Qualitative Organic Acids	Acylcarnitines
Centralised sample dispatch	~	\checkmark	✓	\checkmark	✓
Online results submission	~	\checkmark	~	~	~



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ERNDIM: Administration Office



- Staff: Sara Gardner (Executive Administrator, full time) Jenny Barrett (Scientific Administrator, full time) Kate Straznikiewicz (Administration Assistant, 0.5 x full time) – joined ERNDIM February 2019
- Responsible for administration EQA schemes & SSIEM Academy
- Central to the day to day running of ERNDIM
- Preparation of **ISO accreditation**
- In 2017, SSIEM agreed to fund a full time Scientific Administrator (deputy to Sara) for 3.5 years. Jenny Barrett was recruited in August 2017 and has made a significant impact on the activities of the Office
 - Long term aims is for ERNDIM to sustainably fund this post for the future
- SSIEM also agreed to support the software development costs which have allowed all schemes to move to on-line results submission

Thank you SSIEM!

ERNDIM: impact of BREXIT



Risks Associated with Brexit

- Increased costs, impact of exchange rates e.g. on shipping/cost of schemes for UK labs.
- Changes to customs/permits for UK labs
- Changes to VAT regulations so that VAT must be added to invoices for EU labs

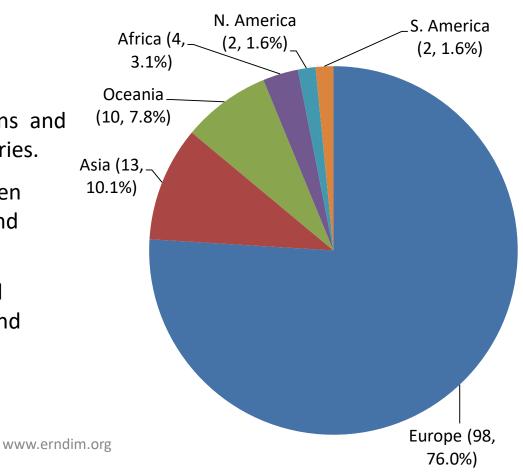
ERNDIM: SSIEM Academy



April 2019, Winterthur (near Zurich), Switzerland

- Course heavily oversubscribed
 (82 lab & 47 clinical applications from 45 countries)
- Accepted applications from 44 clinicians and 36 laboratory scientists from 32 countries.
- Topics: mitochondrial diseases, glycogen storage diseases, neurotransmitters and congenital disorders of glycosylation.
- The programme was a mix of joint and separate clinical/laboratory lectures and workshops.





ERNDIM: SSIEM Academy

SSIEM Academy 2020

 21st & 22nd April 2020, Amsterdam, The Netherlands



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• Topics:

Aminoacidopathies, Hyperammonaemia and Urea Cycle Defects

- Event information can be found on the ERNDIM and SSIEM Events pages: <u>https://erndim.org/home/news.asp</u> and <u>http://www.ssiem.org/events/events.asp</u>
- Course applications will open later in September 2019 & will close on in late October 2019!

ERNDIM: other activities



QUALITY ASSURANCE IN LABORATORY TESTING FOR IEM

Materials for internal QC

• New batches of AA, OA, PuPy, AC, SA produced separate from EQA materials

Reference standard

• Organic acids (supplied by dr Herman ten Brink)

Educational panels

Oligosaccharide kit (supplied by MCA laboratory)

Work in progress

- Support sample exchange between labs in case EQA is not available (guidelines, sample preparation?)
- Biochemical Test directory: MetabERN-Orphanet-ERNDIM





QUALITY ASSURANCE IN LABORATORY TESTING FOR IEM

Thank You!