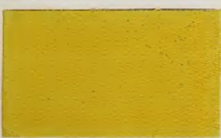


DYE-a-LOG

A Global Reinterpretation of Synthetic Dye History in Non-European Textiles



PATTERN SHEET No. 2 COTTON.		PATTERN SHEET No. 3—COTTON.	
No. 7. Dianthine, with $\frac{1}{2}$ of its weight of caustic soda. (2 lbs. of lime and 7 lbs. of salt per 100 gallons).  (424)	No. 8. Erika B. 10 per cent. phosphate of soda. 3 per cent. soap.  (422)	No. 13. Primuline. 20 per cent. common salt.  (431)	No. 14. Shade No. 13, diazotised and developed with an alkaline solution of beta-naphthol.  (431)
No. 9. Mikado orange G. 20 per cent. common salt.  (426)	No. 10. Toluyene orange G. 10 per cent. phosphate of soda. 3 per cent. soap.  (425)	No. 15. Brilliant sulphonazurin G. 10 per cent. phosphate of soda. 3 per cent. soap.  (440)	No. 16. Diamine sky blue. 20 per cent. common salt.  (444)
No. 11. Chrysamin G. 10 per cent. phosphate of soda. 3 per cent. soap.  (426)	No. 12. Cresotiu yellow G. 10 per cent. phosphate of soda. 3 per cent. soap.  (427)	No. 17. Diamine violet N. 10 per cent. phosphate of soda. 3 per cent. soap.  (440)	No. 18. Benzo grey. 20 per cent. common salt.  (444)
The figures in parentheses, under each pattern, refer to pages in the text where the colouring-matters used are described.		The figures in parentheses, under each pattern, refer to pages in the text where the colouring-matters used are described.	



ERC Consolidator Grant 2025

Dr Diego Tamburini, Scientist: Polymers and Modern Organic Materials
Department of Scientific Research, The British Museum



University of Pisa

PhD in Chemistry and Materials Science (November 2015)



**The British Museum
Department of Scientific Research
Postdoctoral Fellowship (May 2016 – Jan 2020)**

**National Museum of Asian Art, Smithsonian Institution
Postdoctoral Fellowship (Jan 2020 – Dec 2020)**

**Northwestern University
Postdoctoral Fellowship (Jan 2021 – June 2021)**

**The British Museum
Scientist: Polymers and Modern Organic Materials
(June 2021 to present)**



The “DYE-a-LOG” idea was born some time in 2022

Dyes and Pigments 218 (2023) 111472



Contents lists available at ScienceDirect

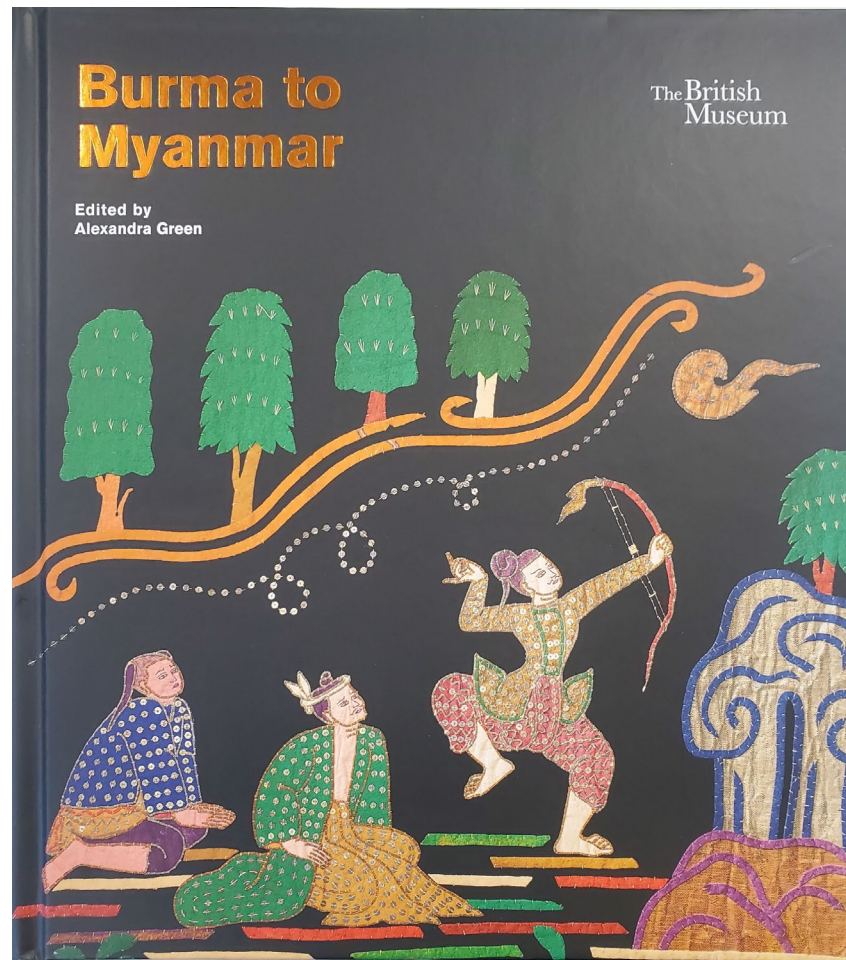
Dyes and Pigments

journal homepage: www.elsevier.com/locate/dyepig

First evidence and characterisation of rare chrome-based colourants used on 19th-century textiles from Myanmar

Diego Tamburini^{*}, Joanne Dyer, Caroline Cartwright

Department of Scientific Research, The British Museum, Great Russell Street, London, WC1B 3DG, UK



Tamburini et al. *Heritage Science* (2023) 11:150
<https://doi.org/10.1186/s40494-023-00978-5>

Heritage Science

RESEARCH

Open Access



Changes in the production materials of Burmese textiles in the nineteenth century—dyes, mordants and fibres of Karen garments from the British Museum’s collection

Diego Tamburini^{1*}, Joanne Dyer¹, Caroline Cartwright¹ and Alexandra Green²





RESEARCH ARTICLE

Open Access



Exploring the transition from natural to synthetic dyes in the production of 19th-century Central Asian *ikat* textiles

Diego Tamburini^{1*}, Eric Breitung^{1,2}, Chika Mori^{1,3}, Tomoko Kotajima^{1,4}, Matthew L. Clarke¹ and Blythe McCarthy¹

Journal of Cultural Heritage 66 (2024) 343–355



Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Journal of Cultural Heritage

journal homepage: www.elsevier.com/locate/culher



VSI: In honour of Prof. Colombini

New insights into the dyes of Central Asian *ikat* textiles [☆]

Diego Tamburini^{a,*}, Zeina Klink-Hoppe^b, Blythe McCarthy^c



**2023-2024: Application to Future Leaders Fellowship
Round 8 (rejected after interview)**



**UK Research
and Innovation**

**2024-2025: Application to ERC Consolidator Grant 2025
(successful)**



European Research Council
Established by the European Commission

Host Institution: The British Museum

The British
Museum

Primary ERC Review Panel: SH6 - The Study of the Human Past

Secondary ERC Review Panel: PE4 - Physical and Analytical Chemical Sciences

€ 2,877,282.50 (including Additional cost for major equipment)

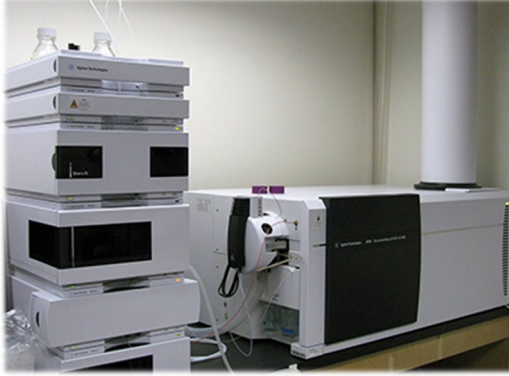
1. DYE-a-LOG motivation: evidence for **complex introduction** of synthetic dyes and need to go **beyond case studies**



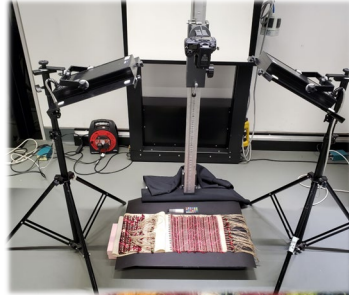
2. DYE-a-LOG methodology: innovative combination of state-of-the-art scientific and humanities research methods.



HPLC-DAD-MS/MS



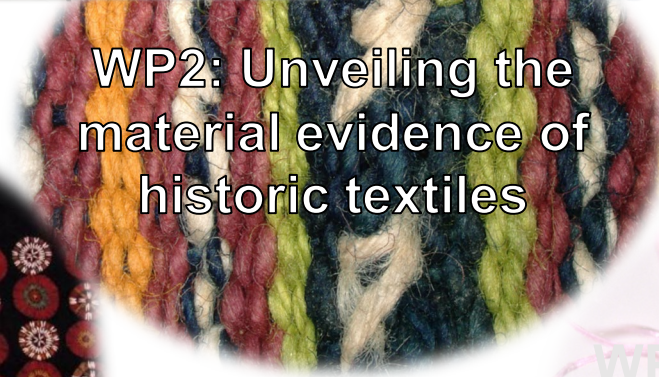
MSI



FORS



WP2: Unveiling the material evidence of historic textiles



WP1: Selecting relevant textile collections



WP3: The SCARlet-MS database



DYE-a-LOG

WP5: a critical synthesis towards a new dye history



WP4: the trade of synthetic dyes - Britain and the colonial world



SCARlet-MS: Synthetic Colourant open-Access Repository – a Mass Spectral database

WP2: Unveiling the material evidence of historic textiles

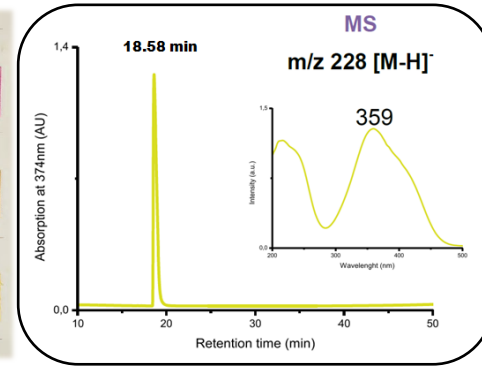
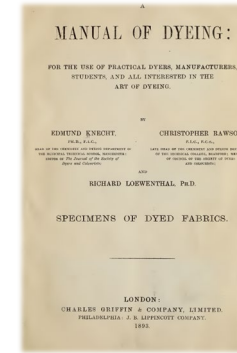
WP1: Selecting relevant textile collections

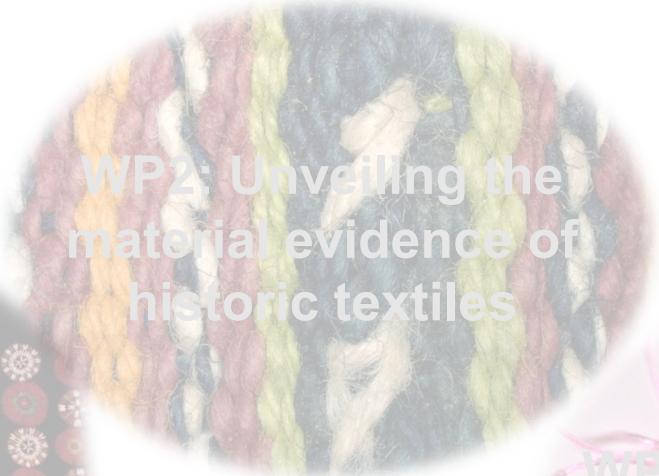
WP3: The SCARlet-MS database

DYE-a-LOG

WP5: a critical synthesis towards a new dye history

WP4: the trade of synthetic dyes - Britain and the colonial world





WP2: Unveiling the
material evidence of
historic textiles



WP1: Selecting
relevant textile
collections

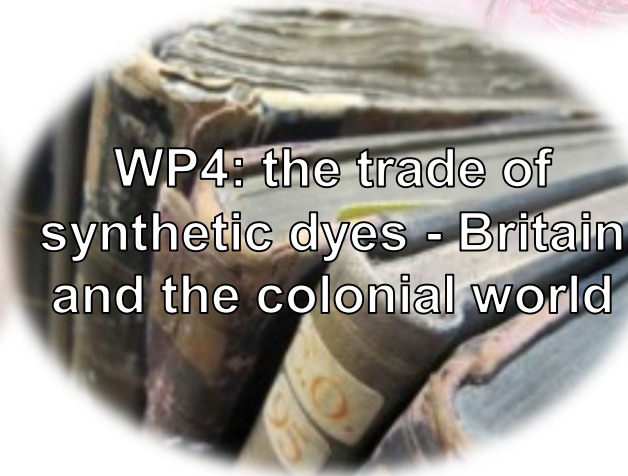


WP3: The SCARlet-M
database

DYE-a-LOG



WP5: a critical
synthesis towards a
new dye history



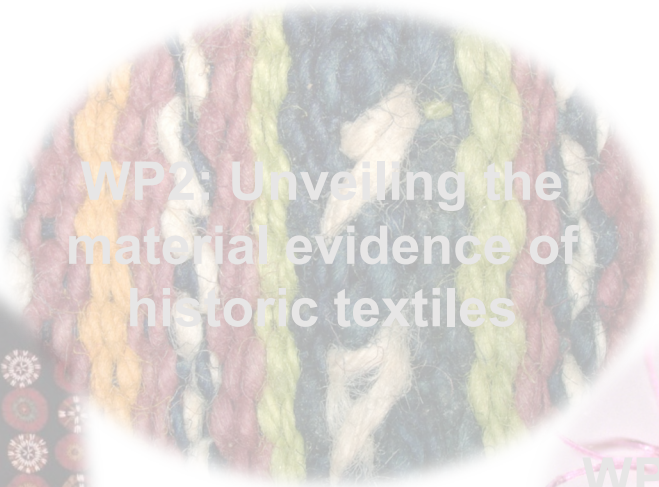
WP4: the trade of
synthetic dyes - Britain
and the colonial world



LABEL NO. : 2131
NAME : Elephant on Phone



LABEL NO. : 4105
NAME : Crescent



WP2: Unveiling the material evidence of historic textiles



WP3: The SCARlet-MS database

DYE-a-LOG



WP1: Selecting relevant textile collections



WP5: a critical synthesis towards a new dye history



WP4: The trade of synthetic dyes - Britain and the colonial world

Archives

DYE-a-LOG

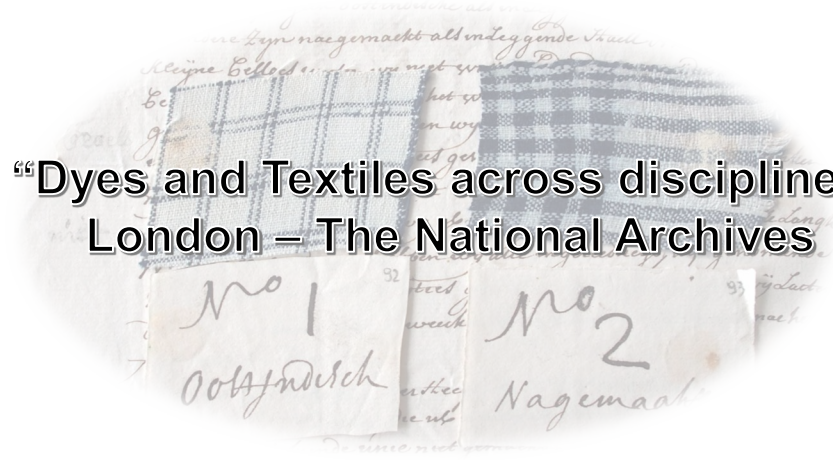
Heritage Science

Textiles

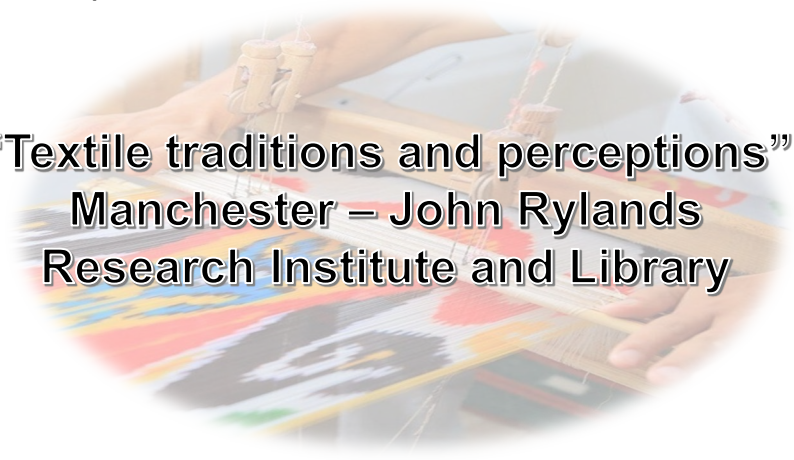


2 Consultation Workshops (Year 2)

“Dyes and Textiles across disciplines”
London – The National Archives



“Textile traditions and perceptions”
Manchester – John Rylands
Research Institute and Library



3 International Workshops (Year 2, 3 and 4)

**Heritage Conservation
Centre, Singapore**



**Textile Museum, Washington
DC, United States**



**Museo Textil Oaxaca
Mexico**



2 Interpretation Workshops (Year 5)

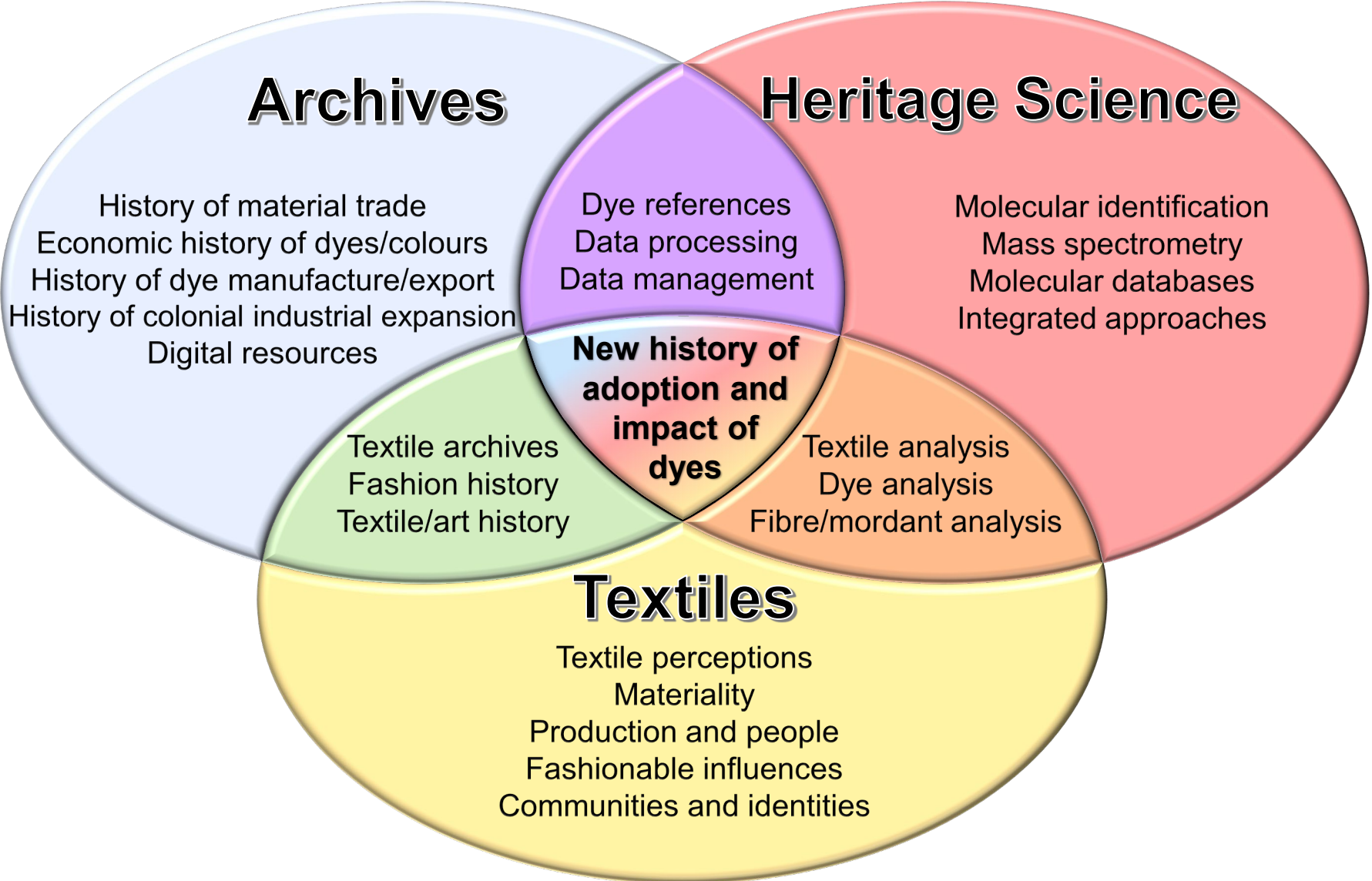
“Dyes and Textiles across disciplines”
Bradford - Society of Dyers and
Colourists



“Textile traditions and perceptions”
London – British Museum



3. **DYE-a-LOG innovation**: **ground-breaking** integration of **molecular science**, **economic**, **colour** and **textile histories** as well as knowledge held by **diverse communities**.



4. DYE-a-LOG core team: enhanced by more than **10 national and international collaborations** and a **10-member Advisory Board**

Principal Investigator



Dr Diego Tamburini
Scientist – Polymers and
Modern Organic Materials
British Museum

PDRA1

Chemist, 3 years
full time



Created by iconfield
from Noun Project

PDRA2

Chemist, 3 years
full time



Created by iconfield
from Noun Project

PDRA3

Economic historian,
2 years full time



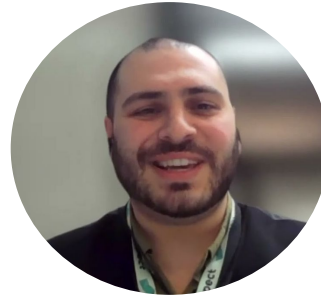
Created by Amethyst Studio
from Noun Project

PDRA4

Textile historian, 4
years 0.8 FTE



Created by Amethyst Studio
from Noun Project



Dr Francesco Palmas
Scientist - Organic Technician
British Museum
5 years, 0.2 FTE



Olivia Gecseg
Principal Records Specialist in Visual Collections
The National Archives
2 years, 0.25 FTE

The British
Museum

Calderdale
Museums

THE
NATIONAL
ARCHIVES

V&A

the Whitworth

University
of Glasgow

SCIENCE
MUSEUM
GROUP

BRITISH
LIBRARY

sdc society of dyer
and colourists

GW THE GEORGE WASHINGTON
UNIVERSITY MUSEUM
THE TEXTILE MUSEUM
Washington DC

Oaxaca
Museo
Textil de
Oaxaca

Manchester
London
Bradford
Amsterdam
Dresden
Munich
Paris
Pisa

THE MUSEUM
MUMBAI
महाराष्ट्र शासन संग्रहालय
CSMVS

Mumbai

National
Heritage
Board
Singapore

RSN
ROYAL SCHOOL
OF NEEDLEWORK
Founded 1872

MANCHESTER
1824
The University of Manchester
John Rylands Research
Institute and Library

Deutsches Museum

BASF

BAYER

TECHNISCHE
UNIVERSITÄT
DRESDEN

Technical
University
of Munich

Hochschule Niederrhein
University of Applied Sciences

Main tips and recommendations from the experience

Proposal stage

Allow plenty of time to write the proposal (3-6 months)

Ask colleagues to read it and give feedback (especially if they have ERC experience)

Ensure collaborations are established and clear (meetings and discussions take time)

Address areas of strength and weakness and show a plan to cover for weaknesses (Advisory Board, collaborations, researchers, extended network, training, etc)

Don't stress too much about the budget but ensure that everything is captured and justified

Submission stage

Choose the panel carefully

Don't wait for the last minute

Liaise thoroughly with your Host Institution

Interview stage

Prepare, prepare, prepare

Organise mock-up interviews (at least two) and record them

Practice conciseness in answers

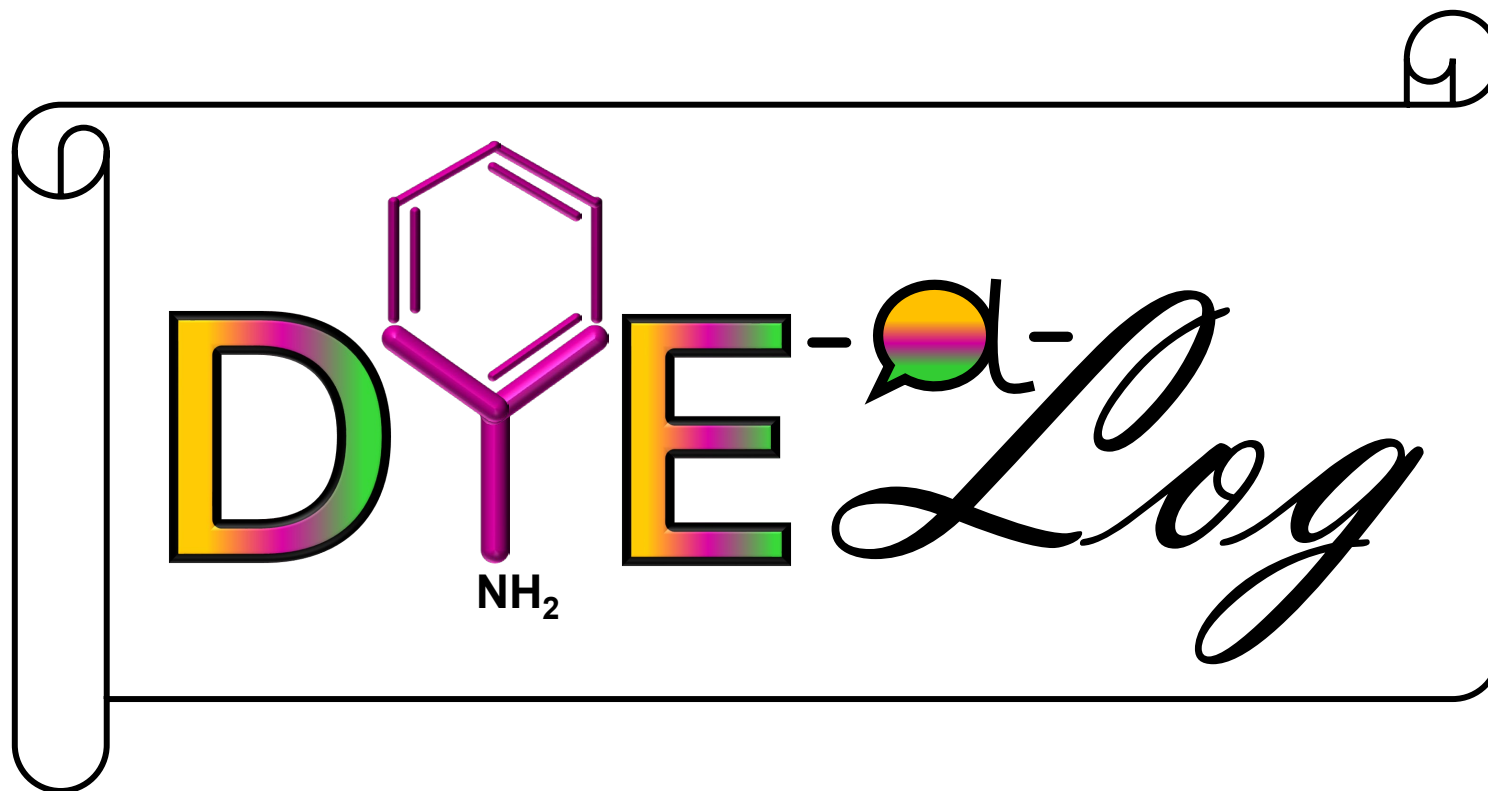
Know your weaknesses and have a plan to address them

Remember your strengths and make sure to emphasise them

Keep in mind the sole criterion for funding is EXCELLENCE

“...all local, national or regional histories must, in important ways, therefore, be global histories.”
C.A. Bayly, *The Birth of the Modern World 1780-1914*

“If we wish to study a society unfamiliar to us, the best place to start is by grasping its material life”
R. L. Heilbroner, *Technological determinism revisited* in “*Does Technology Drive History?*”



European Research Council
Established by the European Commission