

FINLAY MAGUIRE

ACADEMIC ADDRESS

Natural History Museum
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<http://gna-phylo.nhm.ac.uk>

HOME ADDRESS

29 Nash House
Lupus Street
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EDUCATION

Doctor of Philosophy (To be completed)
Natural History Museum
University College London

October 2011-Present

Joint institution PhD in Molecular Evolution/Bioinformatics between Professor Max Telford at University College London and Dr. Thomas Richards at the Natural History Museum. Project is investigating the deep branching relationships within the Eukaryotes and the metabolic basis of photosynthetic endosymbioses in ciliates via a combination of molecular and bioinformatic techniques.

Bachelor of Arts (Honours) Biological Sciences
Oxford University

October 2008-June 2011

Honours schools: Cellular and Developmental Biology and Biology of Plant and Animal Disease

Undergraduate projects:

- The evolution of the folate biosynthesis gene fusions in the eukaryotes (supervised by Dr Thomas Richards).
- Explaining the functional diversity of leucine rich repeats (supervised by Dr Adrian Smith).
- A proposal to investigate the exchange of proteins between *Ignioccus hospitalis* and *Nanoarchaeum equitans* (supervised by: Professor Ian Moore).

INTERNSHIPS

Society for General Microbiology Vacation Studentship

June 2010-August 2010

Summer research project with Dr. Thomas Richards
at Exeter University on the evolution of folate biosynthesis gene
fusions in the eukaryotes.

BioMAP Egypt

July 2008-August 2008

Research assistant on BioMAP GIS project monitoring biodiversity in
the Sinai desert in association with the University of Nottingham and
the Suez Canal University.

AWARDS AND GRANTS

Dukinfield Exhibition in Biological Sciences

October 2009-July 2011
Somerville College, Oxford

Awarded for academic excellence (£300).

Society for General Microbiology Vacation Studentship

June 2010-August 2010
University of Exeter

Funded a summer research project with Dr. Thomas Richards
at Exeter University on the evolution of folate biosynthesis gene
fusions in the eukaryotes (£1890).

Society for General Microbiology Undergraduate Student Grant

5th-7th September 2011
University of York

Grant for travel and accommodation to attend and present at the
Society for General Microbiology summer conference at the University
of York (£170).

FEMS Young Scientist Meeting Grant

5th-20th October 2011
Sant Feliu de Guixols, Spain

Federation of European Microbiological Societies grant to attend
and present at European Molecular Biology Organisation: Comparative
Genomics of Eukaryotic Microorganisms (£350).

PUBLICATIONS

“Ancient gene fusions in the folate biosynthesis pathway suggests holophyly of the unikonts.”

Maguire, F., Leonard, G., Henriquez, F.L., Richards, T.A.

Submitted.

“Diverse molecular signatures for ‘active’ Perkinsea (Alveolata) communities in marine sediments”

Chambouvet, A., Berney, C., Romac, S., Audic, S., Maguire, F., de Vargas, C., Richards, T.A.

Submitted.

“A gene transfer event infers a recent microsporidian parasite radiation”

Campbell, S.E., Hamilton, P.B., Maguire, F., Richards, T.A., Williams, B.A.P.

Manuscript in preparation.

CONFERENCES AND WORKSHOPS

Molecular Evolution Workshop

22nd July - 1st August 2012

MBL, Woods Hole

MA, USA

Workshop participant.

Natural History Museum Student Conference

27th-28th March 2012

Natural History Museum, UK

Poster presentation: “Complex pattern of gene fusion and fission in the Pterin folate biosynthesis pathway”.

National Association for Research in Science Teaching

25th-28th March 2012

Indianapolis, IN, USA

Oral presentation: “Working on the Public’s Perception and Understanding of Science and Scientists through a Popular, Open-access ‘AskScience’ Website”
de la Rubia, L.A., Marus, S., Maguire, F.
(*Presented in absentia*).

Tennessee Maths and Science Education Research Conference

2nd-3rd February 2012

Murfreesboro, TN, USA

Oral presentation: “Online Conversations as a Way of Understanding the Public’s Views of the Nature of Science: Research on Reddit’s ‘AskScience’ ”
de la Rubia, L.A., Marus, S., Maguire, F.
(*Presented in absentia*)

Systematics Association: Young Systematists Forum

1st December 2011

Natural History Museum

Poster presentation: “Folate Biosynthesis Gene Fusions Evolution in the Eukaryotes”.

Society for General Microbiology Summer Conference

5th-7th September 2011

University of York, UK

Poster presentation: “Evolution of Folate Biosynthesis Gene Fusions in the Eukaryotes”.

EMBO: Comparative Genomics of Eukaryotic Microorganisms

15th-20th October 2011

Sant Feliu de Guixols, Spain

Poster presentation: “Evolution of Folate Biosynthesis Gene Fusions in the Eukaryotes”.

TEACHING

Co-supervision of a visiting summer research student registered at the University of Oxford. The project involved bioinformatic analysis of arsenate resistance HGTs.

OUTREACH

Moderator of the “AskScience” science education outreach forum with over 15 million monthly views.

TECHNICAL SKILLS

Experienced with UNIX/Linux, Zsh/Bash, Python, Awk, Perl, Git \LaTeX

Familiar with R, C/C++, Javascript, Verilog, Prolog

Some knowledge of Java, CSS, MySQL

Experience with an array of basic molecular and microbiological techniques and methodologies: PCR, culturing, cloning, sequencing technologies, fluorescence microscopy.

OTHER INTERESTS

PADI Open Water Diver

St. John’s Ambulance First Aider

RYA Level 3 Sailing

Languages: German (intermediate), French (basic/intermediate), Arabic (basic), Japanese (basic)

Musical instruments: French Horn and Bass Guitar