Prof. Malcolm White
School of Biology
Biomedical Sciences Research Complex
St Andrews Bioinformatics Unit

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Biomolecular Sciences Building
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Employment
Professor
School of Biology
University of St Andrews
United Kingdom
1 Jul 2000 → present

Biomedical Sciences Research Complex
University of St Andrews
1 Jul 2000 → present

St Andrews Bioinformatics Unit
University of St Andrews
United Kingdom
1 Jan 2021 → present

Research outputs

**CRISPR antiphage defence mediated by the cyclic nucleotide-binding membrane protein Csx23**

**Reversible conjugation of a CBASS nucleotide cyclase regulates bacterial immune response to phage infection**

**Multi-layered genome defences in bacteria**

**Activation of Csm6 ribonuclease by cyclic nucleotide binding: in an emergency, twist to open**

**Antiviral type III CRISPR signalling via conjugation of ATP and SAM**
Repurposing the atypical Type I-G CRISPR system for bacterial genome engineering
Shangguan, Q. & White, M., 1 Aug 2023, In: Microbiology. 169, 8, 9 p., 001373.

Structure of the *Saccharolobus solfataricus* type III-D CRISPR effector

Antiviral signalling by a cyclic nucleotide activated CRISPR protease

Author Correction: Cyclic nucleotide-induced helical structure activates a TIR immune effector (Nature, (2022), 608, 7924, (808-812), 10.1038/s41586-022-05070-9)

Structure and mechanism of the type I-G CRISPR effector

Cyclic nucleotide signaling in phage defense and counter-defense

Cyclic nucleotide-induced helical structure activates a TIR immune effector

Life Sciences New Talent collection

Specificity and sensitivity of an RNA targeting type III CRISPR complex coupled with a NucC endonuclease effector

Cyclic oligoadenylate signaling and regulation by ring nucleases during type III CRISPR defense

The CRISPR ancillary effector Can2 is a dual-specificity nuclease potentiating type III CRISPR defence

Facile and scalable expression and purification of transcription factor IIH (TFIIH) core complex

Tetramerisation of the CRISPR ring nuclease Crn3/Csx3 facilitates cyclic oligoadenylate cleavage

Bacteria SAVED from viruses
White, M. F., 9 Jul 2020, In: Cell. 182, 1, p. 5-6 2 p.
Fuse to defuse: a self-limiting ribonuclease-ring nuclease fusion for type III CRISPR defence

Regulation of the RNA and DNA nuclease activities required for Pyrococcus furiosus Type III-B CRISPR-Cas immunity

The dynamic interplay of host and viral enzymes in type III CRISPR-mediated cyclic nucleotide signalling

Structure and mechanism of a Type III CRISPR defence DNA nuclease activated by cyclic oligoadenylate

An anti-CRISPR viral ring nuclease subverts type III CRISPR immunity

Evolutionary classification of CRISPR–Cas systems: a burst of class 2 and derived variants

Asymmetric base-pair opening drives helicase unwinding dynamics

Cyclic oligoadenylate signalling mediates Mycobacterium tuberculosis CRISPR defence

A type III CRISPR ancillary ribonuclease degrades its cyclic oligoadenylate activator

Investigation of the cyclic oligoadenylate signaling pathway of type III CRISPR systems

Ring nucleases deactivate Type III CRISPR ribonucleases by degrading cyclic oligoadenylate

Control of cyclic oligoadenylate synthesis in a type III CRISPR system

DNA repair in the Archaea – an emerging picture

Prespacer processing and specific integration in a Type I-A CRISPR system
DNA-Interacting characteristics of the archaeal Rudiviral protein SIRV2_Gp1

High-affinity RNA binding by a hyperthermophilic single-stranded DNA-binding protein

A type III-B CRISPR-Cas effector complex mediating massive target DNA destruction

Cpf1 shape-shifts for streamlined CRISPR cleavage

Cpf1 shape-shifts for streamlined CRISPR cleavage

Mechanism of DNA loading by the DNA repair helicase XPD

Multiple nucleic acid cleavage modes in divergent type III CRISPR systems

Binding dynamics of a monomeric SSB protein to DNA: a single-molecule multi-process approach

Taking a molecular motor for a spin: helicase mechanism studied by spin labelling and PELDOR

An updated evolutionary classification of CRISPR-Cas systems

Intrinsic sequence specificity of the Cas1 integrase directs new spacer acquisition

Functional characterization of a conserved archaeal viral operon revealing single-stranded DNA binding, annealing and nuclease activities

Biogenesis pathways of RNA guides in archaeal and bacterial CRISPR-Cas adaptive immunity
The structural basis of DNA binding by the single-stranded DNA-binding protein from Sulfolobus solfataricus

Expression and purification of the CMR (Type III-B) complex in Sulfolobus solfataricus

Backbone and side-chain H-1, C-13 and N-15 resonance assignments of the OB domain of the single stranded DNA binding protein from Sulfolobus solfataricus and chemical shift mapping of the DNA-binding interface

Cas6 specificity and CRISPR RNA loading in a complex CRISPR-Cas system

Protein-protein interactions leading to recruitment of the host DNA sliding clamp by the hyperthermophilic Sulfolobus islandicus rod-shaped virus 2

CRISPR-mediated targeted mRNA degradation in the archaeon Sulfolobus solfataricus

Single-molecule characterization of Fen1 and Fen1/PCNA complexes acting on flap substrates

Crystal 'unengineering': Reducing the crystallisability of sulfolobus solfataricus hjc

Hot and crispy: CRISPR-Cas systems in the hyperthermophile Sulfolobus solfataricus

Structure of the CRISPR Interference complex CSM reveals key similarities with Cascade

Structure of a dimeric crenarchaeal Cas6 enzyme with an atypical active site for CRISPR RNA processing

CRISPR interference: a structural perspective

Structure of the archaeal Cascade subunit Csa5: Relating the small subunits of CRISPR effector complexes

CrRNA biogenesis
Crenarchaeal chromatin proteins Cren7 and Sul7 compact DNA by inducing rigid bends

Protein-induced changes in DNA structure and dynamics observed with noncovalent site-directed spin-labeling and PELDOR

Alba shapes the archaeal genome using a delicate balance of bridging and stiffening the DNA

The CRISPR associated protein Cas4 is a 5' to 3' DNA exonuclease with an iron-sulfur cluster

Structure and mechanism of the CRISPR associated complex for antiviral defense (CASCADE)

Staphylococcus aureus DinG, a helicase that has evolved into a nuclease

Displacement of the canonical single-stranded DNA-binding protein in the Thermoproteales

Structure and mechanism of the CMR complex for CRISPR-Mediated antiviral immunity

Iron-sulphur clusters in nucleic acid processing enzymes

Postcards from the Edge: Structural Genomics of Archaeal Viruses

Structural and functional characterization of an archaeal clustered regularly interspaced short palindromic repeat (CRISPR)-associated complex for antiviral defense (CASCADE)

hSSB1 interacts directly with the MRN complex stimulating its recruitment to DNA double-strand breaks and its endonuclease activity

hSSB1 rapidly binds at the sites of DNA double-strand breaks and is required for the efficient recruitment of the MRN complex
Recognition of Archaeal CRISPR RNA: No P in the alindromic Repeat?  

Homologous recombination in the archaea: the means justify the ends  

A Dimeric Rep Protein Initiates Replication of a Linear Archaeal Virus Genome: Implications for the Rep Mechanism and Viral Replication  

The evolution and mechanisms of nucleotide excision repair proteins  

The Scottish Structural Proteomics Facility: targets, methods and outputs  

The XBP-Bax1 Helicase-Nuclease Complex Unwinds and Cleaves DNA IMPLICATIONS FOR EUKARYAL AND ARCHEAAL NUCLEOTIDE EXCISION REPAIR  

Dimer-dimer stacking interactions are important for nucleic acid binding by the archaeal chromatin protein Alba  

PCNA and XPF cooperate to distort DNA substrates  

The helicase XPD unwinds bubble structures and is not stalled by DNA lesions removed by the nucleotide excision repair pathway  

Archaeal Chromatin Organization  

Extensive lysine methylation in hyperthermophilic crenarchaea: potential implications for protein stability and recombinant enzymes  

Structure, function and evolution of the XPD family of iron-sulfur- containing 5'-3' DNA helicases  

Structural and Functional Characterisation of a Conserved Archaeal RadA Paralog with Antirecombinase Activity  

DNA Damage: from Causes to Cures  
Structure, function and evolution of the XPD family of iron-sulfur-containing 5'-> 3' DNA helicases

The crenarchaeal DNA damage-inducible transcription factor B paralogue TFB3 is a general activator of transcription

DNA damage: from causes to cures

AcsD catalyzes enantioselective citrate desymmetrization in siderophore biosynthesis

Reactions to UV damage in the model archaeon Sulfolobus solfataricus

RecA family proteins in archaea: RadA and its cousins

PCNA stimulates catalysis by structure-specific nucleases using two distinct mechanisms: substrate targeting and catalytic step

Purification, crystallization and data collection of Pectobacterium chrysanthemi AcsD, a type A siderophore synthetase

Meeting report: Molecular biology of archaea

TarO: a target optimisation system for structural biology

hSSB1, an evolutionary conserved single stranded DNA binding protein critical for the DNA damage response

Structure of the DNA repair helicase XPD

Single-stranded DNA-binding protein hSSB1 is critical for genomic stability

Structure of the DNA repair helicase Hel308 reveals DNA binding and autoinhibitory domains
The Mre11 protein interacts with both Rad50 and the HerA bipolar helicase and is recruited to DNA following gamma irradiation in the archaeon *Sulfolobus acidocaldarius*

The archaeal XPB protein is a ssDNA-dependent ATPase with a novel partner

The Major Architects of Chromatin: Architectural Proteins in Bacteria, Archaea and Eukaryotes

Unusual chromophore and cross-links in Ranasmurfin: a blue protein from the foam nests of a tropical frog

DNA Repair

The *Sulfolobus solfataricus* radA paralogue *sso0777* is DNA damage inducible and positively regulated by the Sta1 protein

An acetylase with relaxed specificity catalyses protein N-terminal acetylation in *Sulfolobus solfataricus*

Purification, crystallization and data collection of methicillin-resistant *Staphylococcus aureus* Sar2676, a pantothenate synthetase.

Expression, purification, crystallization, data collection and preliminary biochemical characterization of methicillin-resistant *Staphylococcus aureus* Sar2028, an aspartate/tyrosine/phenylalanine pyridoxal-5’-phosphate-dependent aminotransferase.

CC1, a novel crenarchaeal DNA binding protein

Equal rates of repair of DNA photoproducts in transcribed and non-transcribed strands in *Sulfolobus solfataricus*
Dorazi, R., Gotz, D., Munro, S., Bernander, R. & White, M. F., Jan 2007, In: Molecular Microbiology. 63, p. 521-529 9 p.

DNA stability and repair
Responses of hyperthermophilic crenarchae to UV irradiation

PCNA activates the Holliday junction resolving enzyme Hjc

Crystallization of Ranasmurfin, a blue coloured protein from Polypedates leucomystax

Structure of the heterotrimeric PCNA from Sulfolobus solfataricus

The DNA repair helicases XPD and FancJ have essential iron-sulfur domains

Overexpression, purification, crystallization and data collection of Sulfolobus solfataricus Sso6206, a novel highly conserved protein

Archaeal DNA replication and repair

DNA damage detection by an archaeal single stranded DNA binding protein

The endonuclease Hje catalyses rapid, multiple turnover resolution of Holliday junctions

Obligate heterodimerisation of the archaeal Alba2 protein with Alba1 provides a mechanism for control of DNA packaging

Crystal structure of a xeroderma pigmentosum group F endonuclease with and without DNA suggests a model for recognition of branched DNA substrates

An archaeal endonuclease displays key properties of both XPF-ERCC1 and Mus81

Conformational flexibility revealed by the crystal structure of a crenarchaeal RadA

DNA end directed and processive nuclease activities of the archaeal XPF enzyme
Physical and functional interaction of the archaeal single-stranded DNA-binding protein SSB with RNA polymerase

Recombination Machinery: Holliday junction resolving enzymes
White, M. F., 2004

Substrate Recognition and Catalysis by the Holliday Junction Resolving Enzyme Hje

Transcriptional response to DNA damage in the archaeon Sulfolobus solfataricus
Salerno, V., Napoli, A., White, M. F., Rossi, M. & Ciaramella, M., 1 Nov 2003

Insights into ssDNA recognition by the OB fold from a structural and thermodynamic study of Sulfolobus SSB protein

Archaeal DNA repair: paradigms and puzzles
White, M. F., Jun 2003

An archaeal XPF repair endonuclease dependent on a heterotrimeric PCNA

Crystallization and preliminary X-ray diffraction studies of Hje, a Holliday junction resolving enzyme from Sulfolobus solfataricus

Holding it together: chromatin in the archaea

Structure of Alba: an archaeal chromatin protein modulated by acetylation

The Interaction of Alba, a Conserved Archaeal Chromatin Protein, with Sir2 and Its Regulation by Acetylation

Mechanistic Implications for Escherichia coli Cofactor-dependent Phosphoglycerate Mutase Based on the High-Resolution Crystal Structure of a Vanadate Complex
Bond, CS., White, M. F. & Hunter, WN., 8 Mar 2002

Holliday junction resolution is modulated by archaeal chromatin components in vitro

Recruitment of intron encoded and co-opted proteins in splicing of the bI3 intron RNA

Preliminary crystallographic studies of the DNA-binding protein Sso10b from Sulfolobus solfataricus.
Distortion of DNA junctions imposed by the binding of resolving enzymes: A fluorescence study

Over-expression, purification, crystallization and data collection of a single stranded DNA binding protein from Sulfolobus solfataricus

The junction-resolving enzymes

Structure of Hjc, a Holliday junction resolvase, from Sulfolobus solfataricus

A novel member of the bacterial-archaeal regulator family is a non-specific dna-binding protein and induces positive supercoiling

Multiple Holliday junction resolving enzyme activities in the Crenarchaeota and Euryarchaeota

Identification and properties of the crenarchaeal single-stranded DNA binding protein from Sulfolobus solfataricus
Wadsworth, R. I. M. & White, M. F., 15 Feb 2001

Identification and properties of the crenarchaeal single-stranded DNA binding protein from Sulfolobus solfataricus

High resolution structure of the phosphohistidine-activated form of Escherichia coli cofactor-dependent phosphoglycerate mutase

A conserved nuclease domain in the archaeal Holliday junction resolving enzyme Hjc

Resolving the relationships of resolving enzymes

Site-directed mutagenesis of the yeast resolving enzyme Cce1 reveals catalytic residues and relationship with the intron-splicing factor Mrs1

Two Holliday junction resolving enzymes in Sulfolobus solfataricus

An archaeal Holliday junction resolving enzyme from Sulfolobus solfataricus exhibits unique properties
Kvaratskhelia, M. & White, M. F., 14 Jan 2000
Quantitation of metal ion and DNA junction binding to the Holliday junction endonuclease Cce1

Sequence and functional-group specificity for cleavage of DNA junctions by RuvC of Escherichia coli

Nucleosome mobilization catalysed by the yeast SWI/SNF complex

The two analogous phosphoglycerate mutases of Escherichia coli

Interaction of the resolving enzyme YDC2 with the four-way DNA junction

Dissection of the sequence specificity of the Holliday junction endonuclease CCE1

A Holliday junction endonuclease from fission yeast

Characterisation of a Holliday junction-resolving enzyme from Schizosaccharomyces pombe

Sequence specificity of CCE1

Recognition and manipulation of branched DNA structure by junction-resolving enzymes

The resolving enzyme CCE1 of yeast opens the structure of the four-way DNA junction

The structure-selectivity and sequence-preference of the junction-resolving enzyme CCE1 of Saccharomyces cerevisiae

EXPRESSION OF APPLE 1-AMINOCYCLOPROPANE-1-CARBOXYLATE SYNTHASE IN ESCHERICHIA-COLI - KINETIC CHARACTERIZATION OF WILD-TYPE AND ACTIVE-SITE MUTANT FORMS

CRYSTALLIZATION AND PRELIMINARY-X-RAY ANALYSIS OF RECOMBINANT 1-AMINOCYCLOPROPANE-1-CARBOXYLATE SYNTHASE FROM APPLE - A KEY ENZYME IN THE BIOSYNTHESIS OF THE PLANT HORMONE ETHYLENE

Dissociation of the tetrameric phosphoglycerate mutase from a yeast by a mutation in the subunit contact region
Substitution of HIS-181 by Alanine in yeast phosphoglycerate mutase leads to cofactor-induced dissociation of the tetrameric structure

Development of a mutagenesis, expression and purification system for yeast phosphoglycerate mutase - investigation of the role of active-site his181

MUTASE VERSUS SYNTHASE - THE PHOSPHOGLYCERATE MUTASE FAMILY STUDIED BY PROTEIN ENGINEERING

SEQUENCE OF THE GENE ENCODING PHOSPHOGLYCERATE MUTASE FROM SACCHAROMYCES-CEREVISIAE

Activities

Keynote Speaker, Beyond Genome Editing, Berlin
Malcolm White (Speaker)
7 Oct 2024

Invited Speaker, RS Hooke meeting on bacterial immune systems
Malcolm White (Speaker)
30 Sept 2024

Departmental seminar, John Innes Centre
Malcolm White (Speaker)
12 Jul 2024

Departmental Seminar, School of Biology, University of York
Malcolm White (Speaker)
3 Jun 2024

Keynote Speaker: Belgian Society for Microbiology
Malcolm White (Speaker)
8 Mar 2024

Departmental Seminar, School of Life Sciences, Southampton University
Malcolm White (Speaker)
11 Oct 2023

Saints Talk (public lecture), University of St Andrews
Malcolm White (Speaker)
3 Oct 2023

Invited speaker, International CRISPR Conference, Würzburg
Malcolm White (Speaker)
27 Jun 2023

Departmental Seminar, University of Regensburg
Malcolm White (Speaker)
26 Jun 2023
Keynote Speaker, Imperial College CSB Open Day
Malcolm White (Speaker)
23 May 2023

Invited Speaker, Symposium on Bacterial Immune Systems
Malcolm White (Speaker)
28 Feb 2023

Departmental Seminar, University of Illinois
Malcolm White (Speaker)
4 Mar 2021

Invited Speaker, 18th UK Archaea Workshop
Malcolm White (Speaker)
8 Jan 2021

Invited speaker, 17th International Molecular Biology and Genetics Winter School, Turkey
Malcolm White (Speaker)
12 Dec 2020

Departmental Seminar, Nottingham University Life Sciences
Malcolm White (Speaker)
28 Oct 2020

Invited speaker, RNA Biochemistry Conference
Malcolm White (Speaker)
22 Oct 2020

Keynote Speaker - GdR Archaea conference, Paris
Malcolm White (Speaker)
28 May 2020

Invited speaker, Beyond Genome Editing Conference, Berlin
Malcolm White (Speaker)
23 Mar 2020

Departmental Seminar - James Hutton Institute
Malcolm White (Speaker)
6 Nov 2019

Invited speaker, Genome Engineering Conference, CSHL
Malcolm Frederick White (Speaker)
10 Oct 2019

The Royal Society of Edinburgh (External organisation)
Malcolm Frederick White (Participant)
30 Sept 2019

Invited Speaker, Genome Engineering Conference, Berlin
Malcolm Frederick White (Speaker)
4 Sept 2019
Invited Speaker, Gordon Research Conference on Archaea, Les Diablerets, Switzerland
Malcolm Frederick White (Speaker)
1 Jul 2019

Invited Speaker, Nucleic Acids Conference, Dundee
Malcolm Frederick White (Speaker)
28 Jun 2019

Invited speaker, International CRISPR Conference, Quebec.
Malcolm Frederick White (Speaker)
19 Jun 2019

Departmental Seminar, Imperial College London
Malcolm Frederick White (Speaker)
15 May 2019

Departmental Seminar, Harwell Research Complex
Malcolm Frederick White (Speaker)
10 May 2019

Invited speaker - DFG network on CRISPR: beyond genome editing
Malcolm Frederick White (Speaker)

Cafe Scientifique Dunkeld - Genome Engineering
Malcolm Frederick White (Speaker)
9 Mar 2019

Departmental Seminar, Genome Damage and Stability Unit, University of Sussex
Malcolm Frederick White (Speaker)
24 Oct 2018

Departmental Seminar, Dept of Biochemistry, UCL
Malcolm Frederick White (Speaker)
17 Oct 2018

Royal Society of Biology Symposium
Malcolm Frederick White (Participant)
13 Oct 2018

Keynote Speaker: Extremophiles 2018, Ischia, Italy
Malcolm Frederick White (Speaker)
17 Sept 2018

Keynote Speaker, Molecular Biology of Archaea 6, Vienna
Malcolm Frederick White (Speaker)
4 Sept 2018

Keynote Speaker: German Archaea Network, Frankfurt
Malcolm Frederick White (Speaker)
16 Jul 2018
Cell Block Science - Polmont YOI
Malcolm Frederick White (Participant)
9 Apr 2018

DFG German Science Foundation (External organisation)
Malcolm Frederick White (Participant)
26 Mar 2018 → 27 Mar 2018

Cell Block Science - Perth Prison
Malcolm Frederick White (Participant)
8 Mar 2018

CRISPR - Separating Fact from Fiction
Malcolm Frederick White (Speaker)
5 Jan 2018

Mentor, Royal Society Mentoring Scheme
Malcolm Frederick White (External examiner)
1 Jan 2018 → 1 Jan 2019

The CRISPR Journal (Journal)
Malcolm Frederick White (Member of editorial board)
1 Oct 2017 → 30 Sept 2022

Invited Speaker - Gordon Research Conference on Archaea, New Hampshire
Malcolm Frederick White (Speaker)
23 Jul 2017

Invited speaker - CRISPR conference, Montana
Malcolm Frederick White (Speaker)
8 Jun 2017

Invited Speaker - FASEB conference on Excision Repair
Malcolm Frederick White (Speaker)
7 May 2017

International Advisory Board - Extremophiles 2016 - Kyoto
Malcolm F White (Member of programme committee)
12 Sept 2016 → 16 Sept 2016

Invited speaker - Workshop on DNA Replication, Brunel University
Malcolm Frederick White (Speaker)
30 Aug 2016

co-Organiser of the 5th Molecular Biology of Archaea Meeting - London
Malcolm F White (Organiser)
1 Aug 2016 → 3 Aug 2016

Departmental Seminar - University of Bradford
Malcolm Frederick White (Speaker)
28 Feb 2016
Departmental Seminar - Kings College, London
Malcolm Frederick White (Speaker)
6 Dec 2015

Live Interview on Radio Scotland - Kaye Adams Programme
Malcolm F White (Participant)
14 Oct 2015

Invited seminar - Gordon Research Conference on Archaea, Maine, USA
Malcolm F White (Participant)
28 Jul 2015

Invited speaker - Gordon Research Conference on Archaea, Maine, USA
Malcolm Frederick White (Speaker)
28 Jul 2015

Invited seminar - International CRISPR conference, New York
Malcolm F White (Participant)
19 Jun 2015

Invited seminar - International CRISPR conference, New York
Malcolm Frederick White (Speaker)
19 Jun 2015

EMBO Keynote Speaker
Malcolm F White (Keynote/Plenary speaker)
15 May 2014

Invited seminar - Shanghai Synchrotron
Malcolm Frederick White (Speaker)
29 Apr 2014

Distinguished Lecturer Series, Shanghai Jiao Tong University
Malcolm F White (Speaker)
24 Apr 2014

Science Discovery Day
Malcolm F White (Participant)
8 Mar 2014

Conference Organiser - International CRISPR meeting
Malcolm F White (Organiser)
17 Jun 2013 → 19 Jun 2013

Conference presentation, Thermophiles 2011, Montana
Malcolm F White (Invited speaker)
13 Sept 2011

Conference presentation, Gordon Research Conference on Archaea, New Hampshire
Malcolm F White (Invited speaker)
3 Aug 2011

Departmental Seminar, CNRS, Palaiseau, France
Malcolm F White (Speaker)
16 Jun 2011
Extremophiles, Cheltenham Science Festival
Malcolm F White (Panel participant)
8 Jun 2011

Speaker, Nordic Archaea Network, Finland
Malcolm F White (Participant)
10 May 2011

Invited speaker, Scottish Protein Group 103rd meeting, Edinburgh
Malcolm F White (Speaker)
5 May 2011

Conference presentation, Society for General Microbiology, Harrogate
Malcolm F White (Invited speaker)
12 Apr 2011

Archaeal Genetic and Molecular Mechanisms
Malcolm F White (Organiser)
6 Jan 2011 → 7 Jan 2011

Departmental Seminar, University of Umea, Sweden
Malcolm F White (Speaker)
19 Nov 2010

Departmental Seminar, University of Copenhagen
Malcolm F White (Speaker)
18 Nov 2010

Extreme Gene Machines: maintaining genome integrity in boiling acid
Malcolm F White (Speaker)
11 Nov 2010

Conference presentation, CRISPR Mechanisms & Applications, Wageningen, NL.
Malcolm F White (Invited speaker)
21 Oct 2010

Departmental Seminar, Leiden University, NL
Malcolm F White (Speaker)
20 Oct 2010

Conference presentation, NACON VIII, Sheffield
Malcolm F White (Participant)
14 Sept 2010

Conference presentation, Molecular Biology of Archaea, Cambridge
Malcolm F White (Participant)
17 Aug 2010

Biochemical Journal (Journal)
Malcolm F White (Editor)
May 2010 → …
Departmental Seminar, Birkbeck College, London
Malcolm F White (Speaker)
30 Nov 2009

British Science Association public lecture on "Darwin and the roots of the tree of life"
Malcolm F White (Speaker)
17 Nov 2009

Departmental Seminar, University of Duisberg-Essen, Germany
Malcolm F White (Speaker)
25 Sept 2009

Invited speaker, Gordon Conference on Archaea, New Hampshire
Malcolm F White (Participant)
28 Jul 2009

Invited speaker, EMBO conference on Helicases, Les Diablerets, Switzerland
Malcolm F White (Participant)
27 Jun 2009

Invited participant, International Workshop on Archaea and the Origins of Life, Les Trielles, France
Malcolm F White (Participant)
11 May 2009

Departmental Seminar, Imperial College London
Malcolm F White (Speaker)
29 Apr 2009

Departmental Seminar, University of Bath
Malcolm F White (Speaker)
24 Mar 2009

Public lecture on "Darwin and the Tree of Life"
Malcolm F White (Speaker)
12 Feb 2009

Invited speaker, Biochemical Society Annual Symposium, Cambridge
Malcolm F White (Participant)
17 Dec 2008

Departmental Seminar, University of Copenhagen, Denmark
Malcolm F White (Speaker)
29 Sept 2008

Invited speaker, Biochemical Society Focussed meeting on Archaea, St Andrews
Malcolm F White (Participant)
21 Aug 2008

Aberdeen Schools Annual Microbiology Lecture
Malcolm F White (Speaker)
18 Jun 2008

Invited speaker, FASEB conference on DNA palindromes, New Hampshire, USA
Malcolm F White (Participant)
9 Jun 2008
Departmental Seminar, UCL, London  
Malcolm F White (Speaker)  
23 Apr 2008

St Andrews Open Association lecture "The weird and wonderful world of the archaea"  
Malcolm F White (Speaker)  
8 Feb 2008

Invited speaker, Molecular and Environmental Biology Symposium, University of Dundee  
Malcolm F White (Speaker)  
1 Feb 2008

BBSRC Biomolecular Sciences (BMS) panel (External organisation)  
Malcolm F White (Participant)  
2008 → 2009

Biochemical Journal (Journal)  
Malcolm F White (Member of editorial board)  
2008 → …

Organiser of the Biochemical Society focussed meeting on the Molecular Biology of Archaea, St Andrews, August 2008  
Malcolm F White (Organiser)  
2008 → …

The Royal Society of Edinburgh (External organisation)  
Malcolm F White (Participant)  
2008 → …

Chair: Gordon Conference on Archaea  
Malcolm F White (Organiser)  
2007 → …

Society for General Microbiology (External organisation)  
Malcolm F White (Participant)  
2006 → …

Society for General Microbiology (External organisation)  
Malcolm F White (Participant)  
2006 → 2009

Biochemical Society Genes sub-panel (External organisation)  
Malcolm F White (Participant)  
2005 → 2008

Faculty of 1000 (Journal)  
Malcolm F White (Member of editorial board)  
2004 → 2008

External examiner for undergraduate units in Biochemistry and Molecular Cell Biology, University of Stirling  
Malcolm F White (External examiner)  
2003 → 2006
Live radio interview on Radio Scotland in October
Malcolm F White (Participant)
2003 → …

The Biochemical Society (External organisation)
Malcolm F White (Participant)
1986 → …

Prizes
Elected member of the European Molecular Biology Organisation
White, Malcolm (Recipient), 27 Oct 2010

Fellow of the Royal Society of Edinburgh
White, Malcolm (Recipient), 2008

Royal Society Wolfson Research Merit Award
White, Malcolm (Recipient), 29 Aug 2014

Awards
Optical tweezers-confocal microscope: A correlative, ultra-stable, optical tweezers-confocal microscope for high-resolution molecular and cellular mechanobiology
BBSRC: £642,300.00
1/08/23 → 31/07/24