Prof. Alfred Aksel Antson
Professor
Chemistry
Email: fred.antson@york.ac.uk
Phone: (01904) 328255

Employment

Wellcome Trust Senior Research Fellow
Chemistry
University of York
Heslington, York
1 Oct 2009 → 30 Sept 2012

Professor
Professor
Chemistry
University of York
Heslington, York
1 Oct 2012 → 30 Nov 2012

Professor
Professor
Chemistry
University of York
Heslington, York
1 Dec 2012 → present

Wellcome Senior Research Fellow
Senior researcher
Chemistry
University of York
Heslington, York
1 Aug 2002 → 30 Sept 2009

Research Fellow
Chemistry
University of York
Heslington, York
1 Aug 1998 → 31 Jul 2002

Wellcome Trust Senior Research Fellow
Professor
Chemistry
University of York
Heslington, York
1 Oct 2009 → 30 Sept 2012

Research output

Surface microlayer-mediated virome dissemination in the Central Arctic
Rahlff, J., Westmeijer, G., Weissenbach, J., Antson, A. & Holmfeldt, K., Dec 2024, In: Microbiome. 12, 1, 17 p., 218.

Structure-based discovery of first inhibitors targeting the helicase activity of human PIF1
Wever, M. J. A., Scommegna, F. R., Egea-Rodriguez, S., Dehghani-Tafti, S., Brandao-Neto, J., Poisson, J.-F., Helfrich, I., Antson, A. A., Rodeschini, V., Bax, B., Roche, D. & Sanders, C. M., 17 Oct 2024, (E-pub ahead of print) In: Nucleic Acids Research. 52, p. 12616–12632 17 p.

Structural basis for DNA recognition by a viral genome-packaging machine
Chechik, M., Greive, S. J. M., Antson, A. A. & Jenkins, H. T., 8 Aug 2024, In: Proceedings of the National Academy of Sciences of the United States of America. 121, 33, 10 p., e2406138121.

Viral Genomic DNA Packaging Machinery
Hawkins, D. E. D. P., Godwin, O. C. & Antson, A. A., 5 Jul 2024, (E-pub ahead of print) *Macromolecular Protein Complexes V: Structure and Function.* Springer, Vol. 104. p. 181-205 25 p. (Sub-cellular biochemistry).

A stargate mechanism of Microviridae genome delivery unveiled by cryogenic electron tomography.
Bardy, P., MacDonald, C. I. W., Kirchberger, P. C., Jenkins, H. T., Botka, T., Byrom, L., Alim, N. T. B., Traore, D. A. K., König, H. C., Nicholas, T. R., Chechik, M., Hart, S. J., Turkenburg, J. P., Blaza, J. N., Beatty, J. T., Fogg, P. C. M. & Antson, A. A., 11 Jun 2024, biorxiv.

Jorvik: a membrane-containing phage that will likely found a new family within Vinavirales
Bardy, P., MacDonald, C., Pantucek, R., Antson, A. A. & Fogg, P. C. M., 17 Nov 2023, In: iScience. 18 p.

Insights into a viral motor: the structure of the HK97 packaging termination assembly
Hawkins, D. E. D. P., Bayfield, O. W., Fung, H. K. H., Grba, D. N., Huet, A., Conway, J. F. & Antson, A. A., 21 Jul 2023, In: Nucleic Acids Research. 51, 13, p. 7025-7035 11 p.

Structural atlas of a human gut crassvirus
Bayfield, O. W., Shkoporov, A. N., Yutin, N., Khokhlova, E. V., Smith, J. L. R., Hawkins, D. E. D. P., Koonin, E. V., Hill, C. & Antson, A. A., 11 May 2023, In: Nature. 617, 7960, p. 409-416 8 p.

Human 14-3-3 proteins site-selectively bind the mutational hotspot region of SARS-CoV-2 nucleoprotein modulating its phosphoregulation
Tugaeva, K. V., Sysoev, A. A., Kapitonova, A. A., L R Smith, J., Zhu, P., Cooley, R. B., Antson, A. A. & Sluchanko, N. N., 30 Jan 2023, In: Journal of Molecular Biology. 435, 2, 17 p., 167891.

High-Voltage Biomolecular Sensing Using a Bacteriophage Portal Protein Covalently Immobilized within a Solid-State Nanopore
Mojtabavi, M., Greive, S. J., Antson, A. A. & Wanunu, M., 14 Dec 2022, In: Journal of the American Chemical Society. 144 , 49, p. 22540–22548 9 p.

Structural basis of DNA packaging by a ring-type ATPase from an archetypal viral system
Fung, H. K. H., Grimes, S., Huet, A., Duda, R. L., Chechik, M., Gault, J., Robinson, C. V., Hendrix, R. W., Jardine, P. J., Conway, J. F., Baumann, C. G. & Antson, A. A., 10 Aug 2022, (E-pub ahead of print) In: Nucleic Acids Research. 14 p., gkac647.

CryoEM structure of the Nipah virus nucleocapsid assembly
Ker, D.-S., Jenkins, H. T., Greive, S. J. & Antson, A. A., 16 Jul 2021, In: PLOS PATHOGENS. 17, 7, e1009740.

Octahedral Trifluoromagnesate, an Anomalous Metal Fluoride Species, Stabilizes the Transition State in a Biological Motor
Ge, M., Molt, R. W., Jenkins, H. T., Blackburn, G. M., Jin, Y. & Antson, A. A., 5 Mar 2021, In: ACS Catalysis. 11, 5, p. 2769-2773 5 p.

The mechanism of SARS-CoV-2 nucleocapsid protein recognition by the human 14-3-3 proteins
Tugaeva, K. V., E D P Hawkins, D., L R Smith, J., Bayfield, O. W., Ker, D.-S., Sysoev, A. A., Klychnikov, O. I., Antson, A. A. & Sluchanko, N. N., 5 Feb 2021, (E-pub ahead of print) In: Journal of Molecular Biology. 166875.

Broad and strong memory CD4+ and CD8+ T cells induced by SARS-CoV-2 in UK convalescent individuals following COVID-19
Oxford Immunology Network Covid-19 Response T cell Consortium, Nov 2020, In: Nature immunology. 21, 11, p. 1336–1345

Molecular basis for the recognition of steroidogenic acute regulatory protein by the 14-3-3 protein family
Tugaeva, K. V., Titterington, J., Sotnikov, D. V., Maksimov, E. G., Antson, A. A. & Sluchanko, N. N., 6 Jul 2020, (E-pub ahead of print) In: FEBS Journal.

Cryo-EM structure in situ reveals a molecular switch that safeguards virus against genome loss
Bayfield, O. W., Steven, A. C. & Antson, A. A., 14 Apr 2020, (E-pub ahead of print) In: eLife. 9, 12 p., e55517.

Molecular basis for the recognition of steroidogenic acute regulatory protein by the 14-3-3 protein family
Tugaeva, K. V., Titterington, J., Sotnikov, D., Maksimov, E., Antson, A. A. & Sluchanko, N. N., 14 Apr 2020.

An Unprecedented Octahedral Trifluoromagnesate MgF3(Wat)– Transition State Analog Reveals The Molecular Mechanism of ATP Hydrolysis by Zika Virus Helicase
Ge, M., Molt. Jr., R. W., Jenkins, H. T., Blackburn, M., Jin, Y. & Antson, A. A., 27 Feb 2020, (ChemRxiv).

Diversity and Host Interactions Among Virulent and Temperate Baltic Sea Flavobacterium Phages
Nilsson, E., Bayfield, O. W., Lundin, D., Antson, A. A. & Holmfeldt, K., 30 Jan 2020, In: Viruses. 12, 2, 21 p.

CryoEM structure of the Nipah virus nucleocapsid assembly
Ker, D.-S., Jenkins, H. T., Greive, S. J. M. & Antson, A. A., 20 Jan 2020, (bioRxiv).

Cryo-EM analysis of a viral portal protein in situ reveals a switch in the DNA tunnel
Bayfield, O., Steven, A. & Antson, A. A., 25 Jul 2019, (bioRxiv).

Structural and functional analysis of the nucleotide and DNA binding activities of the human PIF1 helicase
Dehghani-Tafti, S., Levdikov, V., Antson, A. A., Bax, B. & Sanders, C. M., 8 Apr 2019, In: Nucleic Acids Research. 47, 6, p. 3208-3222 15 p.

Cryo-EM structure and in vitro DNA packaging of a thermophilic virus with supersized T=7 capsids
Bayfield, O. W., Klimuk, E., Winkler, D. C., Hesketh, E. L., Chechik, M., Cheng, N., Dykeman, E. C., Minakhin, L., Ranson, N. A., Severinov, K., Steven, A. C. & Antson, A. A., 26 Feb 2019, In: Proceedings of the National Academy of Sciences of the United States of America. 116, 9, p. 3556-3561 6 p.

Thermostable virus portal proteins as reprogrammable adapters for solid-state nanopore sensors
Cressiot, B., Greive, S. J. M., Mojtabavi, M., Antson, A. A. & Wanunu, M., 7 Nov 2018, In: Nature Communications. 9, 1, p. 1-7 7 p., 4652.

Porphyrin-Assisted Docking of a Thermophage Portal Protein into Lipid Bilayers: Nanopore Engineering and Characterization
Cressiot, B., Greive, S. J., Si, W., Pascoa, T. C., Mojtabavi, M., Chechik, M., Jenkins, H. T., Lu, X., Zhang, K., Aksimentiev, A., Antson, A. A. & Wanunu, M., 9 Nov 2017, (E-pub ahead of print) In: ACS Nano. p. 1-15 15 p.

Structure of the large terminase from a hyperthermophilic virus reveals a unique mechanism for oligomerization and ATP hydrolysis
Xu, R.-G., Jenkins, H. T., Antson, A. A. & Greive, S. J., 24 Oct 2017, In: Nucleic Acids Research. 45, 22, p. 13029-13042 14 p., gkx947.

Chimeric 14-3-3 proteins for unraveling interactions with intrinsically disordered partners
Sluchanko, N. N., Tugaeva, K. V., Greive, S. J. & Antson, A. A., 20 Sept 2017, In: Scientific Reports. 7, 1, 12 p., 12014.

Viral genome packaging terminase cleaves DNA using the canonical RuvC-like two-metal catalysis mechanism
Xu, R.-G., Jenkins, H. T., Chechik, M., Blagova, E. V., Lopatina, A., Klimuk, E., Minakhin, L., Severinov, K., Greive, S. J. & Antson, A. A., 7 Apr 2017, In: Nucleic Acids Research. 45, 6, p. 3580-3590 11 p.

Structural basis for the interaction of a human small heat shock protein with the 14-3-3 universal signaling regulator
Sluchanko, N. N., Beelen, S., Kulikova, A. A., Weeks, S. D., Antson, A. A., Gusev, N. B. & Strelkov, S. V., 7 Feb 2017, In: Structure. 25, 2, p. 305–316 12 p.

Human Lin28 forms a high-affinity 1:1 complex with the 106~363 cluster miRNA miR-363
Peters, D. T., Fung, H. K., Levdikov, V. M., Irmscher, T., Warrander, F. C., Greive, S. J., Kovalevskiy, O., Isaacs, H. V., Coles, M. C. & Antson, A. A., 25 Aug 2016, In: Biochemistry. 55, p. 5021−5027 7 p.

RNA protects a nucleoprotein complex against radiation damage
Bury, C. S., McGeehan, J. E., Antson, A. A., Carmichael, I., Gerstel, M., Shevtsov, M. B. & Garman, E. F., 1 May 2016, In: Acta crystallographica. Section D, Structural biology. 72, Pt 5, p. 648-657 10 p.

DNA recognition for virus assembly through multiple sequence-independent interactions with a helix-turn-helix motif
Greive, S. J., Fung, H. K. H., Chechik, M., Jenkins, H. T., Weitzel, S. E., Aguiar, P. M., Brentnall, A. S., Glousieau, M., Gladyshev, G. V., Potts, J. R. & Antson, A. A., 15 Dec 2015, In: Nucleic Acids Research. p. 1-14 14 p.

lin28 proteins promote expression of 17~92 family miRNAs during amphibian development
Warrander, F., Faas, L., Kovalevskiy, O., Peters, D., Coles, M., Antson, A. A., Genever, P. & Isaacs, H. V., 8 Oct 2015, In: Developmental Dynamics. 50 p.

Structural basis for DNA strand separation by a hexameric replicative helicase
Chaban, Y., Stead, J. A., Ryzhenkova, K., Whelan, F., Lamber, E. P., Antson, A., Sanders, C. M. & Orlova, E. V., 3 Aug 2015, In: Nucleic Acids Research.

From bacterial to human dihydrouridine synthase: automated structure determination
Whelan, F., Jenkins, H. T., Griffiths, S. C., Byrne, R. T., Dodson, E. J. & Antson, A. A., 1 Jul 2015, In: Acta Crystallographica Section D: Biological Crystallography. 71, Pt 7, p. 1564-1571 8 p.

Major reorientation of tRNA substrates defines specificity of dihydrouridine synthases
Byrne, R. T., Jenkins, H. T., Peters, D. T., Whelan, F., Stowell, J., Aziz, N., Kasatsky, P., Rodnina, M. V., Koonin, E. V., Konevega, A. L. & Antson, A. A., 12 May 2015, In: Proceedings of the National Academy of Sciences of the United States of America. 112, 19, p. 6033-6037 5 p.

Quantitative characterization of protein-protein complexes involved in base excision DNA repair
Moor, N. A., Vasil'eva, I. A., Anarbaev, R. O., Antson, A. A. & Lavrik, O. I., 2015, In: Nucleic Acids Research.

12-Fold symmetry of the putative portal protein from the Thermus thermophilus bacteriophage G20C determined by X-ray analysis
Williams, L. S., Levdikov, V. M., Minakhin, L., Severinov, K. & Antson, A. A., Nov 2013, In: Acta Crystallographica Section F: Structural Biology and Crystallization Communications. 69, 11, p. 1239-1241 3 p.

The putative small terminase from the thermophilic dsDNA bacteriophage G20C is a nine-subunit oligomer
Loredo-Varela, J., Chechik, M., Levdikov, V. M., Abd-El-Aziz, A., Minakhin, L., Severinov, K., Smits, C. & Antson, A. A., Aug 2013, In: Acta Crystallographica Section F: Structural Biology and Crystallization Communications. 69, 8, p. 876-879 4 p.

S-Adenosyl-S-carboxymethyl-l-homocysteine: a novel cofactor found in the putative tRNA-modifying enzyme CmoA
Byrne, R. T., Whelan, F., Aller, P., Bird, L. E., Dowle, A., Lobley, C. M. C., Reddivari, Y., Nettleship, J. E., Owens, R. J., Antson, A. A. & Waterman, D. G., 1 Jun 2013, In: Acta Crystallographica Section D: Biological Crystallography. 69, 6, p. 1090-1098 9 p.

Recombinant portal protein from Staphylococcus epidermidis bacteriophage CNPH82 is a 13-subunit oligomer
Luan, W., Fesseler, J., Chechik, M., Buttner, C. R., Antson, A. A. & Smits, C., 1 Oct 2012, In: Acta Crystallographica Section F: Structural Biology and Crystallization Communications. 68, Pt 10, p. 1267-1270 4 p.

Trp RNA-binding attenuation protein: modifying symmetry and stability of a circular oligomer
Bayfield, O. W., Chen, C.-S., Patterson, A. R., Luan, W., Smits, C., Gollnick, P. & Antson, A. A., 6 Sept 2012, In: PLoS ONE. 7, 9, e44309.

Monomeric 14-3-3ζ has a chaperone-like activity and is stabilized by phosphorylated HspB6
Sluchanko, N. N., Artemova, N. V., Sudnitsyna, M. V., Safenkova, I. V., Antson, A. A., Levitsky, D. I. & Gusev, N. B., 7 Aug 2012, In: Biochemistry. 51, 31, p. 6127-6138 12 p.

A flexible brace maintains the assembly of a hexameric replicative helicase during DNA unwinding
Whelan, F., Stead, J. A., Shkumatov, A. V., Svergun, D. I., Sanders, C. M. & Antson, A. A., Mar 2012, In: Nucleic Acids Research. 40, 5, p. 2271-2283 13 p.

Structural basis for DNA recognition and loading into a viral packaging motor
Buettner, C. R., Chechik, M., Ortiz-Lombardia, M., Smits, C., Ebong, I.-O., Chechik, V., Jeschke, G., Dykeman, E., Benini, S., Robinson, C. V., Alonso, J. C. & Antson, A. A., 17 Jan 2012, In: Proceedings of the National Academy of Sciences of the United States of America. 109, 3, p. 811-816 6 p.

Crystal structure of Citrobacter freundii Asp214Ala Tyrosine phenol-lyase reveals that Asp214 is critical for maintaining a strain in the internal aldimine
Milić, D., Demidkina, T. V., Zakomirdina, L. N., Matković-Čalogović, D. & Antson, A. A., 2012, In: Croatica chemica acta. 85, 3, p. 283-288 6 p.

Crystallization and preliminary X-ray crystallographic analysis of the catalytic domain of human dihydrouridine synthase
Griffiths, S., Byrne, R. T., Antson, A. A. & Whelan, F., 2012, In: Acta Crystallographica Section F: Structural Biology and Crystallization Communications. 68, Pt 3, p. 333-336 4 p.

Properties of the monomeric form of human 14-3-3ζ protein and its interaction with tau and HspB6
Sluchanko, N. N., Sudnitsyna, M. V., Seit-Nebi, A. S., Antson, A. A. & Gusev, N. B., 15 Nov 2011, In: Biochemistry. 50, 45 , p. 9797-808 12 p.

Crystallographic Snapshots of Tyrosine Phenol-lyase Show That Substrate Strain Plays a Role in C-C Bond Cleavage
Milic, D., Demidkina, T. V., Faleev, N. G., Phillips, R. S., Matkovic-Calogovic, D. & Antson, A. A., 19 Oct 2011, In: Journal of the American Chemical Society. 133, 41, p. 16468-16476 9 p.

Structure and activity of a novel archaeal β-CASP protein with N-terminal KH domains
Silva, A. P. G., Chechik, M., Byrne, R. T., Waterman, D. G., Ng, C. L., Dodson, E. J., Koonin, E. V., Antson, A. A. & Smits, C., 11 May 2011, In: Structure. 19, 5, p. 622-32 11 p.

How to change the oligomeric state of a circular protein assembly: switch from 11-subunit to 12-subunit TRAP suggests a general mechanism
Chen, C.-S., Smits, C., Dodson, G. G., Shevtsov, M. B., Merlino, N., Gollnick, P. & Antson, A. A., 2011, In: PLoS ONE. 6, 10, p. e25296

Structural investigation of transcriptional regulator HlyIIR: Influence of a disordered region on protein fold and dimerization
Kovalevskiy, O. V., Solonin, A. S. & Antson, A. A., Jun 2010, In: Proteins - Structure Function and Genetics. 78, 8, p. 1870-1877 8 p.

Structure of the Methanothermobacter thermautotrophicus exosome RNase PH ring
Ng, C. L., Waterman, D. G., Antson, A. A. & Ortiz-Lombardia, M., 21 May 2010, In: Acta Crystallographica. Section D, Biological Crystallography. 66, 5, p. 522-528 7 p.

Bacillus licheniformis Anti-TRAP can assemble into two types of dodecameric particles with the same symmetry but inverted orientation of trimers
Shevtsov, M. B., Chen, Y., Isupov, M. N., Leech, A., Gollnick, P. & Antson, A. A., Apr 2010, In: JOURNAL OF STRUCTURAL BIOLOGY. 170, 1, p. 127-133 7 p.

The crystal structure of unmodified tRNA(Phe) from Escherichia coli
Byrne, R. T., Konevega, A. L., Rodnina, M. V. & Antson, A. A., 4 Mar 2010, In: Nucleic Acids Research. 38, 12, p. 4154-4162 9 p.

Structural basis for the nuclease activity of a bacteriophage large terminase
Smits, C., Chechik, M., Kovalevskiy, O. V., Shevtsov, M. B., Foster, A. W., Alonso, J. C. & Antson, A. A., Jun 2009, In: EMBO Reports. 10, 6, p. 592-598 7 p.

Conformational flexibility and molecular interactions of an archaeal homologue of the Shwachman-Bodian-Diamond syndrome protein
Ng, C. L., Waterman, D. G., Koonin, E. V., Walters, A. D., Chong, J. P. J., Isupov, M. N., Lebedev, A. A., Bunka, D. H. J., Stockley, P. G., Ortiz-Lombardia, M. & Antson, A. A., 19 May 2009, In: BMC Structural Biology. 9, p. - 15 p., 32.

Contraction of the disordered loop located within C-terminal domain of the transcriptional regulator HlyIIR causes its structural rearrangement
Kovalevskiĭ, O. V., Antson, A. A. & Solonin, A. S., 2 Apr 2009, In: Molekuliarnaia biologiia. 43, 1, p. 126-35 10 p.

Spatial structure and the mechanism of tyrosine phenol-lyase and tryptophan indole-lyase
Demidkina, T. V., Antson, A. A., Faleev, N. G., Phillips, R. S. & Zakomirdina, L. N., Apr 2009, In: Journal of Molecular Biology. 43, 2, p. 269-283 15 p.

Truncation of the disordered loop located within the C-terminal domain of the transcriptional regulator HlyIIR remodels its structure
Kovalevskiy, O. V., Antson, A. A. & Solonin, A. S., Feb 2009, In: Journal of Molecular Biology. 43, 1, p. 114-122 9 p.

Enzyme-RNA substrate recognition in RNA-modifying enzymes
Byrne, R. T., Waterman, D. G. & Antson, A. A., 1 Jan 2009, *DNA and RNA Modification Enzymes: Structure, Mechanism, Function and Evolution.* CRC Press, p. 303-327 25 p.

Enzyme-substrate recognition in RNA-modifying enzymes
Byrne, R. T., Waterman, D. G. & Antson, F., 2009, *DNA and RNA Modification Enzymes: Structure, Mechanism, Function and Evolution.* Grosjean, H. (ed.). Landes Bioscience

Expression, purification, crystallization and preliminary X-ray studies of the TAN1 orthologue from Methanothermobacter thermautotrophicus
Silva, A. P. G., Byrne, R. T., Chechik, M., Smits, C., Waterman, D. G. & Antson, A. A., Nov 2008, In: Acta Crystallographica Section F: Structural Biology and Crystallization Communications. 64, 11, p. 1083-1086 4 p.

Insights into the Catalytic Mechanism of Tyrosine Phenol-lyase from X-ray Structures of Quinonoid Intermediates
Milic, D., Demidkina, T. V., Faleev, N. G., Matkovic-Calogovic, D. & Antson, A. A., 24 Oct 2008, In: Journal of Biological Chemistry. 283, 43, p. 29206-29214 9 p.

Dimerization of the human papillomavirus type 16 E2 N terminus results in DNA looping within the upstream regulatory region
Hernandez-Ramon, E. E., Burns, J. E., Zhang, W., Walker, H. F., Allen, S., Antson, A. A. & Maitland, N. J., May 2008, In: JOURNAL OF VIROLOGY. 82, 10, p. 4853-4861 9 p.

Papillomavirus E1 helicase assembly maintains an asymmetric state in the absence of DNA and nucleotide cofactors
Sanders, C. M., Kovalevskiy, O. V., Sizov, D., Lebedev, A. A., Isupov, M. N. & Antson, A. A., Oct 2007, In: Nucleic Acids Research. 35, 19, p. 6451-6457 7 p.

Structural rearrangements between portal protein subunits are essential for viral DNA translocation
Cuervo, A., Vaney, M.-C., Antson, A. A., Tavares, P. & Oliveira, L., 29 Jun 2007, In: Journal of Biological Chemistry. 282, 26, p. 18907-18913 7 p.

Transcription activator structure reveals redox control of a replication initiation reaction
Sanders, C. M., Sizov, D., Seavers, P. R., Ortiz-Lombardia, M. & Antson, A. A., May 2007, In: Nucleic Acids Research. 35 , 10, p. 3504-3515 12 p.

Structural framework for DNA translocation via the viral portal protein
Lebedev, A. A., Krause, M. H., Isidro, A. L., Vagin, A. A., Orlova, E. V., Turner, J., Dodson, E. J., Tavares, P. & Antson, A. A., 4 Apr 2007, In: EMBO Journal. 26, 7, p. 1984-1994 11 p.

Crystal structure of Bacillus cereus HlyIIR, a transcriptional regulator of the gene for pore-forming toxin hemolysin II
Kovalevskiy, O. V., Lebedev, A. A., Surin, A. K., Solonin, A. S. & Antson, A. A., 19 Jan 2007, In: Journal of Molecular Biology. 365, 3, p. 825-834 10 p.

Structures of Apo- and Holo-tyrosine phenol-lyase reveal a catalytically critical closed conformation and suggest a mechanism for activation by K+ ions
Milic, D., Matkovic-Calogovic, D., Demidkina, T. V., Kulikova, V. V., Sinitzina, N. I. & Antson, A. A., 20 Jun 2006, In: Biochemistry. 45, 24, p. 7544-7552 9 p.

Crystal structure of Bacillus anthracis ThiI, a tRNA-modifying enzyme containing the predicted RNA-binding THUMP domain
Waterman, D. G., Ortiz-Lombardia, M., Fogg, M. J., Koonin, E. V. & Antson, A. A., 10 Feb 2006, In: Journal of Molecular Biology. 356, 1, p. 97-110 14 p.

Crystal structure of Bacillus subtilis anti-TRAP protein, an antagonist of TRAP/RNA interaction
Shevtsov, M. B., Chen, Y. L., Gollnick, P. & Antson, A. A., 6 Dec 2005, In: Proceedings of the National Academy of Sciences of the United States of America. 102, 49, p. 17600-17605 6 p.

Crystal structure of the portal protein from bacteriophage SPP1 and model for DNA translocation
Lebedev, A. A., Krause, M. H., Vagin, A., Orlova, E. V., Dodson, E. J., Tavares, P. & Antson, A. A., Jul 2005, In: FEBS Journal. 272, p. 334-334 1 p.

Going for RNA repeats
Gollnick, P. & Antson, A., Apr 2005, In: Nature Structural & Molecular Biology. 12, 4, p. 289-290 2 p.

Crystal structure of Mil (Mth680): internal duplication and similarity between the Imp4/Brix domain and the anticodon-binding domain of class IIa aminoacylt-RNA synthetases
Ng, C. L., Waterman, D., Koonin, E. V., Antson, A. A. & Ortiz-Lombardia, M., Feb 2005, In: EMBO Reports. 6, 2, p. 140-146 7 p.

Complexity in regulation of tryptophan biosynthesis in Bacillus subtilis
Gollnick, P., Babitzke, P., Antson, A. & Yanofsky, C., 2005, In: ANNUAL REVIEW OF GENETICS. 39, p. 47-68 22 p.

The crystal structure of YloQ, a circularly permuted GTPase essential for Bacillus subtilis viability
Levdikov, V. M., Blagova, E. V., Brannigan, J. A., Cladiere, L., Antson, A. A., Isupov, M. N., Seror, S. J. & Wilkinson, A. J., 16 Jul 2004, In: Journal of Molecular Biology. 340, 4, p. 767-782 16 p.

Anti-TRAP protein from Bacillus subtilis: crystallization and internal symmetry
Shevtsov, M. B., Chen, Y. L., Gollnick, P. & Antson, A. A., Jul 2004, In: Acta Crystallographica. Section D, Biological Crystallography. 60, p. 1311-1314 4 p.

The interaction of RNA with TRAP: The role of triplet repeats and separating spacer nucleotides
Hopcroft, N. H., Manfredo, A., Wendt, A. L., Brzozowski, A. M., Gollnick, P. & Antson, A. A., 16 Apr 2004, In: Journal of Molecular Biology. 338, 1, p. 43-53 11 p.

Structure of the human S100A12-copper complex: implications for host-parasite defence
Moroz, O. V., Antson, A. A., Grist, S. J., Maitland, N. J., Dodson, G. G., Wilson, K. S., Lukanidin, E. & Bronstein, I. B., May 2003, In: Acta Crystallographica. Section D, Biological Crystallography. 59, p. 859-867 9 p.

The structures of Micrococcus lysodeikticus catalase, its ferryl intermediate (compound II) and NADPH complex
Murshudov, G. N., Grebenko, A. I., Brannigan, J. A., Antson, A. A., Barynin, V. V., Dodson, G. G., Dauter, Z., Wilson, K. S. & Melik-Adamyan, W. R., Dec 2002, In: Acta Crystallographica. Section D, Biological Crystallography. 58, 12, p. 1972-1982 11 p.

Specificity of TRAP-RNA interactions: crystal structures of two complexes with different RNA sequences
Hopcroft, N. H., Wendt, A. L., Gollnick, P. & Antson, A. A., Apr 2002, In: Acta Crystallographica. Section D, Biological Crystallography. 58, p. 615-621 7 p.

The structure of S100A12 in a hexameric form and its proposed role in receptor signalling
Moroz, O. V., Antson, A. A., Dodson, E. J., Burrell, H. J., Grist, S. J., Lloyd, R. M., Maitland, N. J., Dodson, G. G., Wilson, K. S., Lukanidin, E. & Bronstein, I. B., Mar 2002, In: Acta Crystallographica. Section D, Biological Crystallography. 58, p. 407-413 7 p.

Understanding the mechanism of ice binding by type III antifreeze proteins
Antson, A. A., Smith, D. J., Roper, D. I., Lewis, S., Caves, L. S. D., Verma, C. S., Buckley, S. L., Lillford, P. J. & Hubbard, R. E., 26 Jan 2001, In: Journal of Molecular Biology. 305, 4, p. 875-889 15 p.

The three-dimensional structure of human S100A12
Moroz, O. V., Antson, A. A., Murshudov, G. N., Maitland, N. J., Dodson, G. G., Wilson, K. S., Skibshoj, I., Lukanidin, E. M. & Bronstein, I. B., Jan 2001, In: Acta Crystallographica. Section D, Biological Crystallography. 57, p. 20-29 10 p.

Structure of the intact transactivation domain of the human papillomavirus E2 protein
Antson, A. A., Burns, J. E., Moroz, O. V., Scott, D. J., Sanders, C. M., Bronstein, I. B., Dodson, G. G., Wilson, K. S. & Maitland, N. J., 17 Feb 2000, In: Nature. 403, 6771, p. 805-809 5 p.

Crystallization and preliminary X-ray diffraction analysis of human calcium-binding protein S100A12
Moroz, O. V., Antson, A. A., Dodson, G. G., Wilson, K. S., Skibshoj, I., Lukanidin, E. M. & Bronstein, I. B., Feb 2000, In: Acta Crystallographica. Section D, Biological Crystallography. 56, p. 189-191 3 p.

Single stranded RNA binding proteins
Antson, A. A., Feb 2000, In: CURRENT OPINION IN STRUCTURAL BIOLOGY. 10, 1, p. 87-94 8 p.

Structure of the trp RNA-binding attenuation protein, TRAP, bound to RNA
Antson, A. A., Dodson, E. J., Dodson, G., Greaves, R. B., Chen, X. P. & Gollnick, P., 16 Sept 1999, In: Nature. 401, 6750, p. 235-242 8 p.

Regulatory features of the trp operon and the crystal structure of the trp RNA-binding attenuation protein from Bacillus stearothermophilus
Chen, X. P., Antson, A. A., Yang, M., Li, P., Baumann, C., Dodson, E. J., Dodson, G. G. & Gollnick, P., 18 Jun 1999, In: Journal of Molecular Biology. 289, 4, p. 1003-1016 14 p.

Crystallization and preliminary X-ray diffraction of Trypanosoma cruzi dUTPase
Bernier-Villamor, V., Camacho, A., Gonzalez-Pacanowska, D., Cedergren-Zeppezauer, E., Antson, A. & Wilson, K. S., Feb 1999, In: Acta Crystallographica. Section D, Biological Crystallography. 55, p. 528-530 3 p.

Structure of the protein tyrosine kinase domain of C-terminal Src kinase (CSK) in complex with staurosporine
Lamers, M. B. A. C., Antson, A. A., Hubbard, R. E., Scott, R. K. & Williams, D. H., 15 Jan 1999, In: Journal of Molecular Biology. 285, 2, p. 713-725 13 p.

Expression, crystallization and preliminary X-ray analysis of the E2 transactivation domain from papillomavirus type 16
Burns, J. E., Moroz, O. V., Antson, A. A., Sanders, C. M., Wilson, K. S. & Maitland, N. J., 1 Nov 1998, In: Acta Crystallographica. Section D, Biological Crystallography. 54, p. 1471-1474 4 p.

Interactions of phenol and m-cresol in the insulin hexamer, and their effect on the association properties of B28 Pro -> Asp insulin analogues
Whittingham, J. L., Edwards, D. J., Antson, A. A., Clarkson, J. M. & Dodson, C. G., 18 Aug 1998, In: Biochemistry. 37, 33, p. 11516-11523 8 p.

Crystal structure of tryptophanase
Isupov, M. N., Antson, A. A., Dodson, E. J., Dodson, G. G., Dementieva, I. S., Zakomirdina, L. N., Wilson, K. S., Dauter, Z., Lebedev, A. A. & Harutyunyan, E. H., 27 Feb 1998, In: Journal of Molecular Biology. 276, 3, p. 603-623 21 p.

Determination of interspin distances between spin labels attached to insulin: Comparison of electron paramagnetic resonance data with the x-ray structure
Steinhoff, H. J., Radzwill, N., Thevis, W., Lenz, V., Brandenburg, D., Antson, A., Dodson, G. & Wollmer, A., Dec 1997, In: Biophysical Journal. 73, 6, p. 3287-3298 12 p.

The crystal structure of Citrobacter freundii tyrosine phenol-lyase complexed with 3-(4'-hydroxyphenyl)propionic acid, together with site-directed mutagenesis and kinetic analysis, demonstrates that arginine 381 is required for substrate specificity
Sundararaju, B., Antson, A. A., Phillips, R. S., Demidkina, T. V., Barbolina, M. V., Gollnick, P., Dodson, G. G. & Wilson, K. S., 27 May 1997, In: Biochemistry. 36, 21, p. 6502-6510 9 p.

RNA cleavage without hydrolysis. Splitting the catalytic activities of binase with Asn101 and Thr101 mutations
Okorokov, A. L., Panov, K. I., Offen, W. A., Mukhortov, V. G., Antson, A. A., Karpeisky, M. Y., Wilkinson, A. J. & Dodson, G. G., Mar 1997, In: PROTEIN ENGINEERING DESIGN. 10, 3, p. 273-278 6 p.

Crystallographic study of tyrosine phenol-lyase from Erwinia herbicola
Pletnev, S. V., Antson, A. A., Sinitsyna, N. I., Dauter, Z., Isupov, M. N., Hurs, E. N., Faleev, N. G., Wilson, K. S., Dodson, G., Demidkina, T. V. & Arutyunyan, E. G., 1997, In: CRYSTALLOGRAPHY REPORTS. 42, 5, p. 809-819 11 p.

Circular assemblies
Antson, A. A., Dodson, E. J. & Dodson, G. G., Apr 1996, In: CURRENT OPINION IN STRUCTURAL BIOLOGY. 6, 2, p. 142-150 9 p.

THE STRUCTURE OF TRP RNA-BINDING ATTENUATION PROTEIN
ANTSON, A. A., OTRIDGE, J., BRZOZOWSKI, A. M., DODSON, E. J., DODSON, G. G., WILSON, K. S., SMITH, T. M., YANG, M., KURECKI, T. & GOLLNICK, P., 20 Apr 1995, In: Nature. 374, 6524, p. 693-700 8 p.

Interaction of the 11-subunit trp RNA-binding attenuation protein (TRAP) with its RNA target
Gollnick, P., Baumann, C., Yang, M., Otridge, J. & Antson, A., 1995, In: Nucleic acids symposium series. 33, p. 43-5 3 p.

11-FOLD SYMMETRY OF THE TRP RNA-BINDING ATTENUATION PROTEIN (TRAP) FROM BACILLUS-SUBTILIS DETERMINED BY X-RAY-ANALYSIS
ANTSON, A. A., BRZOZOWSKI, A. M., DODSON, E. J., DAUTER, Z., WILSON, K. S., KURECKI, T., OTRIDGE, J. & GOLLNICK, P., 18 Nov 1994, In: Journal of Molecular Biology. 244, 1, p. 15 5 p.

CRYSTALLIZATION AND PRELIMINARY-X-RAY INVESTIGATION OF HOLOTRYPTOPHANASES FROM ESCHERICHIA-COLI AND PROTEUS-VULGARIS

DEMENTIEVA, I. S., ZAKOMIRDINA, L. N., SINITZINA, N. I., ANTSON, A. A., WILSON, K. S., ISUPOV, M. N., LEBEDEV, A. A. & HARUTYUNYAN, E. H., 14 Jan 1994, In: Journal of Molecular Biology. 235, 2, p. 783-786 4 p.

3-DIMENSIONAL STRUCTURE OF TYROSINE PHENOL-LYASE
ANTSON, A. A., DEMIDKINA, T. V., GOLLNICK, P., DAUTER, Z., VONTERSCH, R. L., LONG, J., BEREZHNOY, S. N., HARUTYUNYAN, E. H., WILSON, K. S. & PHILLIPS, R. S., 27 Apr 1993, In: Biochemistry. 32, 16, p. 4195-4206 12 p.

Three-dimensional structure of tyrosine phenol-lyase
Antson, A. A., Demidkina, T. V., Gollnick, P., Dauter, Z., von Tersch, R. L., Long, J., Berezhnoy, S. N., Phillips, R. S., Harutyunyan, E. H. & Wilson, K. S., 27 Apr 1993, In: Biochemistry. 32, 16, p. 4195-206 12 p.

THE POLYPEPTIDE CHAIN FOLD IN TYROSINE PHENOL-LYASE, A PYRIDOXAL-5'-PHOSPHATE DEPENDENT ENZYME
ANTSON, A. A., STROKOPYTOV, B. V., MURSHUDOV, G. N., ISUPOV, M. N., HARUTYUNYAN, E. H., DEMIDKINA, T. V., VASSYLYEV, D. G., DAUTER, Z., TERRY, H. & WILSON, K. S., 18 May 1992, In: FEBS Letters. 302, 3, p. 256-260 5 p.

Electron-microscopic study of the structure of tyrosine-phenol-lyase from Citrobacter intermedius
Sherman, M. B., Antson, A. A., Orlova, E. V., Zograf, O. N. & Demidkina, T. V., 1 Dec 1990, In: Doklady Biophysics. 310-312, p. 115-117 3 p.

A crystallographic station for structural investigations of macromolecular crystals on the synchrotron beam of the VEPP-3 storage ring
Popov, A. N., Antson, A. A., Belyaev, V. V., Bondarenko, K. P., Harutyunyan, E. H., Kheiker, D. M., Sheromov, M. A. & Mytnychenko, S. V., 10 Oct 1989, In: Nuclear instruments & methods in physics research section a-Accelerators spectrometers detectors and associated equipment. 282, 2-3, p. 510-515 6 p.

Crystallization and crystal data on tyrosine phenol-lyase
Demidkina, T. V., Myagkikh, I. V., Antson, A. A. & Harutyunyan, E. H., 23 May 1988, In: FEBS Letters. 232, 2, p. 381-2 2 p.

Activities

BBC Look North
Hawkins, D. (Organiser), Ker, D.-S. (Participant), Bayfield, O. (Participant) & Antson, A. A. (Host)
17 Apr 2020

Pasteur Institut, Paris (External organisation)
Antson, A. A. (Advisor)
Apr 2020 → May 2020

SWISS NATIONAL SCIENCE FOUNDATION (SNSF) (External organisation)
Antson, A. A. (Advisor)
Apr 2020 → May 2020

La Caixa Foundation Health Research (External organisation)
Antson, A. A. (Advisor)
1 Mar 2020 → 30 Apr 2020

Structure and mechanism of nucleic acid-processing machines in viral biogenesis
Antson, A. A. (Invited speaker)
29 Jan 2020

PhD examination
Antson, A. A. (Examiner (external))

9 Dec 2019

Andrey Shkoporov
Antson, A. A. (Host)
24 Nov 2019 → 26 Nov 2019

Karin Holmfeldt
Antson, A. A. (Host)
10 Oct 2019 → 12 Oct 2019

Irish Research Council (External organisation)
Antson, A. A. (Advisor)
5 Sept 2019 → 30 Jan 2020

Wah Chiu
Antson, A. A. (Host)
4 Sept 2019 → 6 Sept 2019

Czech Academy of Science (External organisation)
Antson, A. A. (Advisor)
Aug 2019 → Sept 2019

Conformational changes during capsid expansion: cryo-EM analysis of a thermophilic virus
Antson, A. A. (Invited speaker)
29 Jul 2019

Stanford Synchrotron Radiation Lightsource, SLAC National Accelerator Laboratory, Stanford University
Antson, A. A. (Visitor)
19 Jul 2019 → 28 Jul 2019

Session XII: capsid morphogenesis
Antson, A. A. (Chair)
18 Jul 2019

Evgeniy Klimuk
Antson, A. A. (Host)
4 Jul 2019 → 5 Dec 2019

Viral nucleic acid machines
Antson, A. A. (Invited speaker)
17 May 2019

YSBL-SKOLTECH
Antson, A. A. (Organiser)
17 May 2019 → 18 May 2019

ANR (Agence Nationale de la Recherche), France (External organisation)
Antson, A. A. (Advisor)
31 Mar 2019 → 10 May 2019

How do viruses fill their capsids with DNA?
Antson, A. A. (Invited speaker)
20 Mar 2019

La Caixa Foundation Health Research, Spain (External organisation)
Antson, A. A. (Advisor)
1 Mar 2019 → 31 Mar 2019

DNA recognition and capsid expansion during virus assembly
Antson, A. A. (Invited speaker)
25 Feb 2019

NATIONAL INSTITUTES OF HEALTH
Antson, A. A. (Collaborator)
24 Feb 2019 → 26 Feb 2019

Northeastern University
Antson, A. A. (Collaborator)
3 Jan 2019 → 5 Jan 2019

Irish Research Council (External organisation)
Antson, A. A. (Advisor)
1 Nov 2018 → 10 Jan 2019

Stanford University, Stanford, CA, USA.
Antson, A. A. (Collaborator)
12 Oct 2018 → 10 Apr 2019

European Crystallographic Meeting ECM31
Antson, A. A. (Chair)
22 Aug 2018 → 27 Aug 2018

York Festival of Ideas
Antson, A. A. (Organiser)
12 Jun 2018

Evgeniy Klimuk
Antson, A. A. (Host)
1 Jan 2018 → 15 Mar 2019

XXV 2017 Biennial Conference on Phage/Virus Assembly
Antson, A. A. (Chair)
20 Aug 2017 → 25 Aug 2017

Biomotors, Virus Assembly, and Nanobiotechnology Applications
Antson, A. A. (Chair)
18 Aug 2017

Biomotors, Virus Assembly, and Nanobiotechnology Applications
Antson, A. A. (Invited speaker)
16 Aug 2017 → 19 Aug 2017

Evgeniy Klimuk
Antson, A. A. (Host)
1 May 2017 → 31 Jul 2017

How do viruses fill their capsids with DNA?
Antson, A. A. (Invited speaker)
9 Sept 2016 → 12 Sept 2016

80th Harden conference, "Machines on Genes"
Antson, A. A. (Speaker)
3 Aug 2016

Meni Wanunu
Antson, A. A. (Host)
9 Jul 2015 → 11 Jul 2015

UK Structural Biology Forum EM meeting
Antson, A. A. (Participant)
6 Jul 2015

Alisdair Steven
Antson, A. A. (Host)
15 Jun 2015

XXIV Biennial Conference on Phage/Virus Assembly
Antson, A. A. (Speaker)
7 Jun 2015 → 12 Jun 2015

CCP-EM Spring Symposium
Antson, A. A. (Participant)
28 May 2015

WELLCOME TRUST (External organisation)
Antson, A. A. (Member)
2009 → 2017

Awards

An imaging filter to enable high-resolution cryogenic electron tomography (cryoET) at York
Blaza, J. (Principal investigator), Antson, A. A. (Co-investigator), Bardy, P. (Co-investigator), Correia Faria, J. R. (Co-investigator), Davies, G. J. (Co-investigator), Hill, C. (Co-investigator), Mackinder, L. (Co-investigator), Thomas, G. H. (Co-investigator) & Walker, C. E. (Co-investigator)
BBSRC (BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL): £680,090.00
1/08/24 → 31/07/25

Projects

A regional cryo-EM Facility at the University of York
Davies, G. J. (Principal investigator), Antson, A. A. (Co-investigator), Brzozowski, A. M. (Co-investigator), Cowtan, K. (Co-investigator), Mottram, J. C. (Co-investigator), Plevin, M. J. (Co-investigator) & Potts, J. R. (Co-investigator)
20/12/18 → 19/12/23

Action! Modelling DNA nano-machines for deciphering their molecular mechanisms
Noy, A. (Principal investigator) & Antson, A. A. (Co-investigator)
1/10/17 → 31/03/21

An imaging filter to enable high-resolution cryogenic electron tomography (cryoET) at York
Blaza, J. (Principal investigator), Antson, A. A. (Co-investigator), Bardy, P. (Co-investigator), Correia Faria, J. R. (Co-investigator), Davies, G. J. (Co-investigator), Hill, C. (Co-investigator), Mackinder, L. (Co-investigator), Thomas, G. H. (Co-investigator) & Walker, C. E. (Co-investigator)
BBSRC (BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL)

1/08/24 → 31/07/25

Bilateral NSF/BIO-BBSRC: Engineering Tunable Portal Hybrid Nanopores for High-Resolution Sequence Mapping
Antson, A. A. (Principal investigator) & Greive, S. J. M. (Researcher)
BBSRC (BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL)
1/10/16 → 30/09/19

C2D2 Research 3a - Small molecule manipulation of microRNA biogenesis: application to microRNAs linked to chronic diseases
Plevin, M. J. (Principal investigator), Antson, A. A. (Co-investigator), Hubbard, R. E. (Co-investigator) & Lagos, D. (Co-investigator)
1/02/14 → 31/12/14

CFH2a priming - Understanding DNA-processing molecular motors from Human Papillomavirus for designing anti-viral drugs
Noy, A. (Principal investigator) & Antson, A. A. (Co-investigator)
1/06/18 → 30/09/19

Chemistry Dreampore Studentship 2019
Antson, A. A. (Principal investigator) & Greive, S. J. M. (Co-investigator)
1/09/19 → 30/09/24

Data Collection facilities for York Structural Biology Laboratory: Structural protemics for Human Health
Antson, A. A. (Principal investigator)
1/12/06 → 30/11/11

Engineering thermophage particles for studying virus assembly
Antson, A. A. (Principal investigator)
THE ROYAL SOCIETY
1/07/16 → 30/06/19

Function Of Rna-Binding Proteins
Antson, A. A. (Principal investigator)
1/02/03 → 31/01/07

Harnessing the potential of atypical gDNA processing by domesticated viruses
Fogg, P. C. M. (Principal investigator) & Antson, A. A. (Co-investigator)
BBSRC (BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL)
1/01/22 → 30/09/25

Integrated multi-user crystallisation facility comprising a robot and storage system with image retrieval
Antson, A. A. (Principal investigator), Brzozowski, A. M. (Co-investigator), Davies, G. J. (Co-investigator), Potts, J. R. (Co-investigator), Smith, D. F. (Co-investigator), Wilkinson, A. J. (Co-investigator) & Wilson, K. S. (Co-investigator)
1/12/13 → 30/11/18

Mechanism of genome packaging by dsDNA viruses
Antson, A. A. (Principal investigator) & O'Toole, P. J. (Co-investigator)
2/08/22 → 1/08/27

Molecular mechanism of genome packaging by dsDNA viruses Antson AA
Antson, A. A. (Principal investigator)
2/08/22 → 1/08/27

Obstacles to replication: uncovering the mechanisms of macromolecular collisions
Hawkins, M. S. (Principal investigator), Antson, A. A. (Co-investigator) & Blaza, J. (Co-investigator)
BBSRC (BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL)

1/07/23 → 30/06/26

Opening of a double stranded DNA replication fork by a hexameric helicase
Antson, A. A. (Principal investigator)
BBSRC (BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL)
1/02/14 → 2/05/17

Senior Research Fellowship-Dr Antson
Antson, A. A. (Principal investigator)
1/08/02 → 31/07/07

Structural Biology Laboratory
Antson, A. A. (Principal investigator)
1/01/09 → 26/04/12

Structural basis of high-frequency horizontal gene transfer mediated by bacteriophage-like particles
Antson, A. A. (Principal investigator), Bardy, P. (Co-investigator) & Fogg, P. C. M. (Co-investigator)
1/03/22 → 28/02/26

Structural investigation..papillomavirus..complex
Antson, A. A. (Principal investigator)
1/01/05 → 31/12/07

Structure & mechanism of multicomponent....
Antson, A. A. (Principal investigator)
1/08/07 → 31/07/12

Structure and mechanism of nucleic acid-processing machines in viral biogenesis
Antson, A. A. (Principal investigator)
1/08/17 → 31/07/22

Structure and mechanism of viral nucleic acid motors
Antson, A. A. (Principal investigator)
1/08/17 → 31/12/22

Wellcome Trust Senior Research Fellowship
Antson, A. A. (Principal investigator)
1/08/12 → 31/07/17

X-ray Diffraction Equipment for Macromolecular Crystallography at York
Davies, G. J. (Principal investigator), Antson, A. A. (Co-investigator), Brzozowski, A. M. (Co-investigator), Cowtan, K. (Co-investigator), Fascione, M. A. (Co-investigator), Grogan, G. J. (Co-investigator), Plevin, M. J. (Co-investigator), Thomas, G. H. (Co-investigator), Wilkinson, A. J. (Co-investigator), Willems, L. I. (Co-investigator) & Wilson, K. S. (Co-investigator)
BBSRC (BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL)
18/09/20 → 17/09/22