

- A**
Alberry, Medhat S. 460
Allemann, Rudolf K. 349
Attilakos, George 460
Avent, Neil D. 460
- B**
Bacher, Adelbert 382
Basran, Jaswir 408
Bennion, Ian 445
Blair, Steve 471
Butt, Julea N. 368
- C**
Chagovetz, Alexander 471
Chatzinotas, Antonis 454
Chauhan, Nishma 408
Cheesman, Myles R. 368
Chen, Xianfeng 445
Choi, Kin 460
Christofferson, Andrew 413
- D**
Davies, Edward 445
Day, Philip J.R. 424, 466
de Visser, Sam P. 373
Doshi, Rupak 466
Durrant, James R. 368
- E**
Efimov, Igor 408
Eisenreich, Wolfgang 382
Evans, Rhiannon M. 349
- F**
Faulds, Karen 441
Field, Sarah J. 392
Fischer, Markus 382
Forterre, Patrick 477
Foster, Timothy J. 358
- G**
Gadelle, Danièle 477
Graham, Duncan 441
Graille, Marc 477
Green, Clare 419
Groot, Marie Louise 387
- H**
Halford, Stephen E. 343
Hecker, Arnaud 477
Heyes, Derren J. 354, 387
Hine, Anna V. 445
Huggett, Jim 419
Hughes, Marcus D. 445
Hunter, C. Neil 387
Hughes, Ross J.L. 392
- I**
Imfeld, Gwenaël 454
- J**
Jones, Alex R. 358
Jones, Michael R. 400
Joshi, Monika 382
- K**
Kästner, Matthias 454
- L**
Kemp, Gemma L. 368
- L**
Lasken, Roger S. 450
Le Cam, Eric 477
Li, Jin 427
Lodola, Alessio 363
Loveridge, E. Joel 349
- M**
Macaskill, Alexandra 441
Mackenzie, Fiona 441
Maddocks, Deborah G. 460
Madec, Edwige 477
Madgett, Tracey E. 460
Makrigiorgos, G. Mike 427
Marritt, Sophie J. 368
Marsh, E. Neil G. 336
Mor, Marco 363
Morling, Niels 438
Mulholland, Adrian J. 363
Munro, Andrew W. 333
- N**
Nikolausz, Marcell 454
- O**
Owen, Robin L. 378
- P**
Pearson, Arwen R. 378
- R**
Rafice, Sara A. 408
Raven, Emma Lloyd 408
- Richardson, David J. 392
Richter, Gerald 382
Römisch-Margl, Werner 382
- S**
Salaoru, Adrian T. 358
Scrutton, Nigel S. 333, 354, 358
Sirirak, Jitnapa 363
Soothill, Peter W. 460
Stokes, Robert 441
Sugden, Kate 445
Sytina, Olga A. 387
- T**
Táncsics, András 454
Taylor, Claire F. 433
Thompson, David 441
Tirelli, Nicola 466
- V**
van Tilbergh, Herman 477
- W**
Watmough, Nicholas J. 392
Weber, Stefan 382
Wilkie, John 413
Woodward, Jonathan R. 358
- X**
Xiaoe, Li 368
- Z**
Zhang, Lin 445
Zhou, Kaiming 445
Zumla, Alimuddin 419

- A**
 adenosylcobalamin, 336
 amplicon, 433
 5-[aziridin-1-yl]-2,4-dinitrobenzamide (CB1954), 413
- B**
 biosensor, 445
- C**
 cancer diagnosis, 424
 cancer treatment, 413
 catalytic cycle, 354
 chemically induced dynamic nuclear polarization (CIDNP), 358, 382
 chlorophyll biosynthesis, 354
 chlorophyllide, 387
 chromophore, 441
 co-amplification at lower denaturation temperature-PCR (COLD-PCR), 427
 coenzyme B₁₂, 336
 Compound I, 373
 conformational change, 354, 387
 cytochrome, 368
- D**
 developing country, 419
 developing world, 419
 diagnosis, 419
 diffraction data collection, 378
 diffusion, 343
 dihydrofolate reductase (DHFR), 349, 354
 dioxygenase, 408
 dissolved oxygen/nitrogen, 466
 DNA amplification, 427
 DNA analysis, 438
 DNA-binding protein, 343
 DNA detection, 441
 DNA hybridization, 445
 DNA microarray, 471
 DNA purity, 466
 DNA quantification, 466
 DNA sequence, 343
- E**
 electron-density map, 378
 electron transfer, 382, 392, 400, 413
 electron transfer chain, 358
 enzyme mechanism, 373
 enzyme system, 378
 enzymology, 333
Escherichia coli nitroreductase, 413
 evanescent wave, 445
- F**
 fatty acid amide hydrolase (FAAH), 363
 flavin radical, 382
 forensic genetics, 438
 Fourier-transform infrared (FTIR), 387
 free fetal DNA, 460
 free fetal RNA, 460
 free radical, 336
- G**
 genetic testing, 427
 genomic DNA, 450
 genotyping, 433, 460
- H**
 haem, 373, 408
 haem-copper oxidase, 392
 high-resolution melting (HRM), 433
 hopping, 343
 hydride, 387
 hydride transfer, 413
 hydrogen tunnelling, 333, 336
 hydrogen tunnelling reaction, 349
 hydroxylation, 373
- I**
 identity testing, 438
 indoleamine 2,3-dioxygenase, 408
 inhibitor design, 363
 integration of sample processing and PCR, 424
 intermediate trapping, 378
- J**
 jumping, 343
- K**
 kinetic isotope effect, 336
 kinetics, 333
- L**
 long-period fibre grating (LPFG), 445
- M**
 magnetic circular dichroism, 368
 magnetic field effect, 358
 membrane protein, 392, 400
 microbiology, 454
 microfluidic device, 424
 miniaturized device, 424
 minisequencing, 454
 multiple displacement amplification (MDA), 450
 multiplex screening, 454
 mutation detection, 433, 454
 mutation scanning, 433
Mycobacterium tuberculosis, 333
- N**
 nanocrystalline electrode, 368
 nanoparticle, 441
 nitric oxide, 368, 392
 nitric oxide synthase (NOS), 333, 373
 nitrite reductase, 368
 nitrous oxide, 392
 non-invasive prenatal diagnosis, 460
 nuclear-spin polarization, 382
 nucleic acid, 471
 nucleic acid amplification test, 419
 nucleic acid measurement, 466
 nucleic acid sequence analysis, 441
- O**
 optical fibre, 445
 optical spectroscopy, 441
 oxygen-DNA interaction, 466
- P**
 PCR, 438
 PCR-based mutation detection, 427
 personalized medication, 424
 photosynthesis, 400
 protein-coupled motion, 349
 protein dynamics, 349, 354
 protein film voltammetry, 368
 protochlorophyllide oxidoreductase (POR), 354, 387
 proton transfer, 392
 purple bacterium, 400
- Q**
 quantification, 424
 quantitative PCR (qPCR), 450
 quantum mechanical tunnelling, 349
 quantum mechanics/molecular mechanics (QM/MM), 333, 363
- R**
 radical pair, 358
 radical-pair mechanism, 382
 rapid chemical quench, 336
 reaction centre, 400
 reaction mechanism, 363
 real-time data acquisition, 471
 real-time PCR, 427, 460
Rhodobacter, 400
- S**
 sequence variant, 433
 sequencing, 427
 short tandem repeat (STR), 438
 single-crystal spectroscopy, 378
 single-nucleotide polymorphism (SNP), 438, 454, 471
 single-nucleotide primer extension (SNUPE), 454
 sliding, 343
 sub-Saharan Africa, 419
 surface capture, 471
 surface-enhanced resonance Raman scattering (SERRS), 441
- T**
 tetrahedral intermediate, 363
 theoretical modelling, 373
Thermotoga maritima, 349
 time-resolved measurement, 358
 transition state, 363
 trisomy 21, 460
 tryptophan, 408
 tryptophan 2,3-dioxygenase, 408
 tryptophan radical, 382
 tuberculosis, 419
 two-colour experiment, 471
- U**
 unlabelled biomolecule, 445
 UV spectrophotometry, 466
- V**
 virus-directed enzyme prodrug therapy (VDEPT), 413
- X**
 X-ray crystallography, 378