

New Fellows of The Royal Society

The Royal Society is the national academy of sciences of the UK and elects 44 Fellows and 8 Foreign Members each year. We congratulate all those elected in 2012, including **David MacMillan** and **Avelino Corma**, who were recently featured in this section,^[1] and highlight some of our more regular authors and referees here.

Varinder K. Aggarwal (University of Bristol) studied at the University of Cambridge, where he was awarded his PhD in 1986 for work supervised by Stuart Warren. From 1986–1988, he was a postdoctoral research fellow with Gilbert Stork at Columbia University, New York, and in 1988, he was appointed lecturer at the University of Bath. In 1991, he moved to the University of Sheffield, and in 2000, he was made Professor in Synthetic Chemistry at the University of Bristol. Aggarwal's research interests are in organic chemistry, in particular stereoselective synthesis, mechanistic studies, and total synthesis of natural and non-natural products. He has reported in *Angewandte Chemie* on the stereocontrolled synthesis of substituted pyrrolidines,^[2a] and in *Chemistry—A European Journal* on the enantioselective synthesis of tertiary boronic esters.^[2b] Aggarwal is on the International Advisory Boards of *Chemistry—An Asian Journal* and the *Asian Journal of Organic Chemistry*.

Shankar Balasubramanian (University of Cambridge) studied at the University of Cambridge and carried out his PhD (awarded in 1988) with Chris Abell. From 1991–1993, he was a SERC/NATO Research Fellow with Steven J. Benkovic at Pennsylvania State University, and in 1994, he rejoined the University of Cambridge, where he is currently Herchel Smith Professor of Medicinal Chemistry. Balasubramanian's research is focused on the chemical biology of nucleic acids, in particular the elucidation and manipulation of mechanisms that control gene expression. He has written an Essay in *Angewandte Chemie* on decoding genomes at high speed,^[3a] and has recently reported in *Chemistry—A European Journal* on bisindole carboxamides for stabilizing G-quadruplex DNA.^[3b] Balasubramanian is on the International Advisory Board of *Chemistry—An Asian Journal*.

David Klenerman (University of Cambridge) completed his PhD under the supervision of Ian W. M. Smith at the University of Cambridge. After postdoctoral research as a Fulbright Scholar with Richard N. Zare at Stanford University, he spent seven years in the Laser Spectroscopy Group at BP Research before returning to the University of Cambridge, where he is currently Professor of

Biophysical Chemistry. Klenerman is interested in biophysical methods based on laser fluorescence spectroscopy and scanning probe microscopy. He has recently discussed applications of single-molecule fluorescence coincidence spectroscopy in a Minireview in *ChemPhysChem*,^[4a] and has reported in *Angewandte Chemie* on multifunctional nanopores for nanoscale chemical imaging.^[4b]

Stephen G. Withers (University of British Columbia) studied at the University of Bristol, where he received his PhD (under the direction of Michael Sinnott) in 1979. He subsequently joined the University of Alberta as a postdoctoral researcher with Neil B. Madsen and Brian D. Sykes. In 1982, he started his independent career at the University of British Columbia, where he is now professor in the Department of Chemistry and Director of the Centre for High-Throughput Biology. Withers and his research group are interested in the enzymes involved in glycoside cleavage and synthesis, with particular focus on their mechanisms. He has reported in *Angewandte Chemie* on self-immobilizing fluorogenic imaging agents,^[5a] and on a mechanism-based inactivator of glucocerebrosidase.^[5b] Withers is on the Editorial Advisory Board of *ChemBioChem* and was on the International Advisory Board of *Angewandte Chemie* from 2008–2011.

- [1] a) *Angew. Chem.* **2011**, *123*, 5535; *Angew. Chem. Int. Ed.* **2011**, *50*, 5423; b) *Angew. Chem.* **2011**, *123*, 7357; *Angew. Chem. Int. Ed.* **2011**, *50*, 7219.
- [2] a) M. A. Lowe, M. Ostovar, S. Ferrini, C. C. Chen, P. G. Lawrence, F. Fontana, A. A. Calabrese, V. K. Aggarwal, *Angew. Chem.* **2011**, *123*, 6494; *Angew. Chem. Int. Ed.* **2011**, *50*, 6370; b) H. K. Scott, V. K. Aggarwal, *Chem. Eur. J.* **2011**, *17*, 13124.
- [3] a) S. Balasubramanian, *Angew. Chem.* **2011**, *123*, 12612; *Angew. Chem. Int. Ed.* **2011**, *50*, 12406; b) J. Dash, R. Nath Das, N. Hegde, G. D. Pantoş, P. S. Shirude, S. Balasubramanian, *Chem. Eur. J.* **2012**, *18*, 554.
- [4] a) A. Orte, R. W. Clarke, D. Klenerman, *ChemPhysChem* **2011**, *12*, 491; b) Y. Takahashi, A. I. Shevchuk, P. Novak, Y. Zhang, N. Ebejer, J. V. Macpherson, P. R. Unwin, A. J. Pollard, D. Roy, C. A. Clifford, H. Shiku, T. Matsue, D. Klenerman, Y. E. Korchev, *Angew. Chem.* **2011**, *123*, 9812; *Angew. Chem. Int. Ed.* **2011**, *50*, 9638.
- [5] a) D. H. Kwan, H.-M. Chen, K. Ratananikom, S. M. Hancock, Y. Watanabe, P. T. Kongsaree, A. L. Samuels, S. G. Withers, *Angew. Chem.* **2011**, *123*, 314; *Angew. Chem. Int. Ed.* **2011**, *50*, 300; b) B. P. Rempel, M. B. Tropak, D. J. Mahuran, S. G. Withers, *Angew. Chem.* **2011**, *123*, 10565; *Angew. Chem. Int. Ed.* **2011**, *50*, 10381.

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Elected ...



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S. Balasubramanian



D. Klenerman



S. G. Withers