April 2013

CURRICULUM VITAE

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Born: 6th June 1955, London (U.K.)
Citizenship: Dual US and British

Education

1976: BSc. in Biochemistry (1st Class Honors), University College London.
1979: MD, University College Hospital Medical School, London.
1982: PhD in Physical Biochemistry, MRC National Institute for Medical Research, London.

Positions held

2011-: Appointed NIH Distinguished Investigator
2005-: Appointed to Title 42f, Band IV, NIH, Bethesda.
1996-2005: Appointed to Senior Biomedical Research Service (SBRS), NIH, Bethesda
1991-: Chief, Protein NMR Section, NIDDK, NIH, Bethesda
1988-: Senior Investigator (Federal grade equivalent to Full Professor), Laboratory of Chemical Physics, NIDDK, NIH, Bethesda.
1984-1988: Head of the Biological NMR Group, Max-Planck Institute for Biochemistry, Martinsried, Munich, Germany.
1980-1984: Member of the Scientific Staff at the MRC National Institute for Medical Research, London.
1980: House Surgeon, St. Charles Hospital (St. Mary's Hospital Group), London.
1979: House Physician, University College Hospital, London.
1978-1980: Honorary Research Fellow, Department of Biochemistry, University College London.

Honors

2012: Biochemical Society 2013 Centenary Award (previously known as the Jubilee Medal) and Sir Frederick Gowland Hopkins Memorial Lecture (U.K.)
2011: Centenary Prize, Royal Society of Chemistry (U.K.)
2011: Distinguished NIH Investigator
2011: Elected a Fellow of the International Society of Magnetic Resonance for “Seminal contributions in the field of biological NMR”
2010: Elected a Fellow of the American Academy of Arts and Sciences.
2010: Hillebrand Prize,Washington DC Chapter of the American Chemical Society.
2009: NIDDK Nancy Nossal Scientific Mentorship Award.
2009: Elected a Fellow of the Biophysical Society for "Pioneering contributions in the development of NMR spectroscopy for structural characterization of biological macromolecules".
2007: American Society for Biochemistry and Molecular Biology Citation for Distinguished Service in recognition of 10 years as a member of the Editorial Board of the Journal of Biological Chemistry.
2004: Elected Fellow of the World Innovation Foundation (U.K.)
2003: Elected Member, Lister Institute for Preventive Medicine (U.K.).

Honors (cont.)

2001: Original member, Institute for Scientific Information (ISI) Highly Cited Researchers Database (in Biochemistry and Biology Section and Chemistry Section).
1999: Elected Fellow of the American Association for the Advancement of Science (AAAS).
1996: The Harrington Lecture, National Institute for Medical Research (U.K.)
1993: Dupont-Merck Young Investigator Award of the Protein Society.
1993: 1993 National Institutes of Health Lecture.
1992: National Institutes of Health Director's Award.
1991: Elected Fellow of the Washington Academy of Sciences.
1990: Distinguished Young Scientist Award of the Maryland Academy of Sciences.
1990: Scientific Achievement Award (Biological Sciences) of the Washington Academy of Sciences.
1990: Elected Fellow of the Royal Society of Chemistry (U.K).
1982-1984: Lister Institute Research Fellow.
1977: Francis Walsche Neurology Prize, University College Hospital Medical School, London

Membership of Societies

1976-: Member of the Biochemical Society (U.K.)
1976-: Royal Society of Chemistry (U.K.).
1984-: British Biophysical Society
1989-: American Chemical Society
1990-: Protein Society
1991-: New York Academy of Sciences
1991-: Washington Academy of Sciences
1991-: American Society for Biochemistry and Molecular Biology
1999-: American Association for the Advancement of Science
2008-: Biophysical Society
2010-: American Academy of Arts and Sciences

Editorial work

1987-2003: Member of the Editorial Board of Protein Engineering.
1993-: Member of the Editorial Board of Structure.
1993-1997: Associate Editor of Protein and Peptide Letters.
1994-1999: Member of the Editorial Board of Protein Science.
1996-: Member of the Editorial Board of Frontiers in Bioscience.
1996-2001 Member of the Editorial Board of the Journal of Biological Chemistry.
1998-: Member of the Editorial Board of the Journal of Magnetic Resonance.
2002-2007: Member of the Editorial Board of the Journal of Biological Chemistry.
2003-: Series Editor for the Structural Biology, Chemical Biology and Informatics Section of the Royal Society of Chemistry Biomolecular Biosciences Book Series.
2003-: Member of the Editorial Board of PEDS (Protein Engineering, Design and Selection).
2009-2014: Member of the Editorial Board of the Journal of Biological Chemistry.
2012-: Member of the Editorial Advisory Board, Open Access Book Program in Biology, Versita Publishing, London, U.K.

Peer review

Refereeing of papers on a regular basis for a number of journals including:
Nature, Science, Cell, Mol. Cell, Proc. Natl. Acad. Sci., J. Biol. Chem., J. Mol. Biol., Biochemistry, J. Am. Chem. Soc., Structure, Nature Struct. Biol., EMBO Journal, Nucleic Acids Research, Proteins, Prot. Sci., Prot. Eng., J. Magn. Reson., J. Biomol. NMR, PEDS, RSC Mol. Biosystem.

Refereeing of grants on an ad hoc basis for the following agencies:
National Science Foundation, National Institutes of Health, Medical Research Council (U.K.), Welcome Trust (U.K.), Cancer Research U.K., Swiss National Foundation for the Advancement of Scientific Research, Belgium Incentive Program for Fundamental Research in the Life Sciences, Swedish Natural

Peer Review (cont.)
Science Research Council, Australian Research Council, Israel Science Foundation, ACS Petroleum Research Fund, Georgian National Science Foundation, French National Research Agency (ANR), European Research Council.

Service

1989-: Adviser in the U.S. National Research Council (NRC) Research Associateship Program.
1989: Special Study Section of the Division of Research Resources, Biomedical Research Technology Program, NIH.
1992: Subcommittee on Structural Biology of the Health and Environmental Research Advisory Committee of the Department of Energy.
1994: Special Reviewer, Biophysical Chemistry (BBCB) Study Section, NIH
1994: External Scientific Reviewer, H.E.J. Research Institute of Chemistry, University of Karachi, Pakistan.
1994-2000: Chairman, NIH-Wide Tenure and Promotions Committee for Computer Scientists.
1996-1998: Member, Membership Committee, Protein Society
1996-: Preceptorship in the Pharmacology Research Associate (PRAT) Program of the National Institute for General Medical Sciences.
1997: NIH Special Emphasis Panel on Structural Biology of AIDS Related Proteins.
1997-: Member of Review Panel for the John Sealy Memorial Endowment Fund for Biomedical Research.
1998-2001: Co-Chair, Intramural NIH-Wide Structural Biology Interest Group.
1998: Reviewer for the qinquennial assessment (1994-1998) of the MRC Center for Protein Engineering at the University of Cambridge, U.K.
1998-: Member of NMR Task Force of the Research Collaboratory for Structural Bioinformatics.
2002: Member, Special Emphasis Panel on 900 MHz NMR Spectrometers, Center for Scientific Review, NIGMS, NIH.
2004: Reviewer for the qinquennial assessment (1999-2003) of the MRC Center for Protein Engineering at the University of Cambridge, U.K.
2005-2009: Member, RCSB (PDB-BMRB) Task Group on NMR
2006-2011: Member of the Scientific Advisory Board of the Institute of Biotechnology at the University of Helsinki, Finland.
2007-: Member, Executive Committee of the NIH/Oxford/Cambridge Scholars Program.
2009: Member of Ad Hoc NIH Review Panel for High End NMR Shared Instrumentation Grants.
2009: Member of the UCLA-DOE Institute for Genomics and Proteomics Cooperative Agreement Review Panel.

Grants

1985-1989: Deutsche Forschungsgemeinschaft (DFG) Grant No. Gr 658/3-1 and Gr 658/3-2. Protein engineering: biochemical and molecular approaches in the study of DNA-protein interactions at the atomic level - The cAMP receptor protein (CRP or CAP) of *Escherichia coli*.
1985-1987: Deutsche Forschungsgemeinschaft (DFG) Grant No. Cl 86/1-1. Determination of three-dimensional structures of oligonucleotides and proteins in solution by NMR spectroscopy: refinement using restrained least squares minimization and restrained molecular dynamics.
1986-1988: Deutsche Forschungsgemeinschaft (DFG) Grant No. Gr 658/4-1. Stereochemistry and conformational flexibility of the binding of peptide inhibitors to serine and aspartyl proteases: combined use of two-dimensional transferred nuclear Overhauser enhancement spectroscopy, restrained molecular dynamics and computer graphics.
1987-1989: Bundesministerium fur Forschung und Technologie (BMFT) Grant No. 321-4003-0318909A (30/3003/68327). Eureka Project: Determination of three-dimensional structures of proteins, nucleic acids and their complexes in solution (DM 6.712 million).

Grants (cont.)

1987-1990: AIDS Intramural Program of the Office of the Director of the NIH: Structural studies of viral proteins and their complexes with drugs and ligands by nuclear magnetic

1991-1992: AIDS Intramural Program of the Office of the Director of the NIH: Structural Studies of AIDS proteins and other related proteins by Nuclear Magnetic Resonance ($1.0 million).

1993-1994: AIDS Intramural Program of the Office of the Director of the NIH: Structural Studies of AIDS proteins and other related proteins by Nuclear Magnetic Resonance ($1.1 million).

1995-1996: AIDS Intramural Program of the Office of the Director of the NIH: Structural Studies of AIDS proteins and other related proteins by Nuclear Magnetic Resonance ($2.15 million).

1997-1998: AIDS Intramural Program of the Office of the Director of the NIH: Structural Studies of AIDS proteins and other related proteins by Nuclear Magnetic Resonance ($1.225 million).

1999-2000: AIDS Intramural Program of the Office of the Director of the NIH: NMR Structural Studies of HIV Proteins Related to Fusion and Integration ($1.064 million).

2001-2002: AIDS Intramural Program of the Office of the Director of the NIH: NMR Structural Studies of HIV Proteins Related to Fusion and Integration ($890,000).

2003-2004: AIDS Intramural Program of the Office of the Director of the NIH: Structural and Biophysical Studies Aimed at Targeting HIV-1 gp41 and Integrase ($600,000).

2005-2006: AIDS Intramural Program of the Office of the Director of the NIH: Structural, Biophysical and Biochemical Studies Related to HIV-1Fusion, HIV-1 Protease and HIV-1 Integrase ($520,000).

2007-2008: AIDS Intramural Program of the Office of the Director of the NIH: Structural and Biophysical Studies of AIDS and AIDS Related Systems. ($877,200).

2009-2010: AIDS Intramural Program of the Office of the Director of the NIH: Structural and Biophysical Studies of AIDS and AIDS Related Systems. ($1.077 million).

2011-2012: AIDS Intramural Program of the Office of the Director of the NIH: NMR, EPR and X-ray scattering studies of HIV and HIV related proteins ($701,000)

2013-2014: AIDS Intramural Program of the Office of the Director of the NIH: NMR, EPR and X-ray scattering studies of HIV and HIV related proteins ($400,000)

Invited speaker at conferences

1978

Japanese-American Symposium on Cytochrome Oxidase, Kyoto, Japan (June).

1980

Second Priestley Conference on Oxygen and Life, Birmingham, U.K. (Sept.).

1985

German Biophysical Society Meeting on Molecular Biophysics, Hunfeld, Germany (April).
Sixth Delaware NMR Symposium, University of Delaware (June).
Fourth Conversation in Biomolecular Sterodynamics, State University of New York at Albany (June).
DGF Colloquium on Biophysics of Cellular Organization, Konstanz, Germany (Oct.)
Fourteenth Aharon Katzir-Katchalsky Conference on the Biological Significance of Conformational Changes in DNA and DNA-Protein Complexes, University of Bielefeld, Germany (Oct.)

1986

British Biophysical Society Meeting on DNA Structure and Gene Expression, University of Kent, U.K. (April).
DFG Colloqium on Non-Covalent Interactions, Darmstadt, Germany (April).
International Workshop on Structure and Dynamics of Proteins, INSERM and CNRS, Paris, France (July).

Invited speaker at conferences (cont.)

Marcus Wallenberg Symposium of the European Biophysical Societies Association on Structure, Dynamics and Function of Biomolecules, Satlsjobaden, Stockholm, Sweden (July).

1987

Molecular Graphics Society Meeting on the Generation of Three-Dimensional Structures from Distance Information, University of York, U.K. (Jan.).
Protein Engineering '87, Oxford, U.K. (April).
35th International Colloquium on Protides of the Biological Fluids, Brussels, Belgium (April).
Protein Engineering Workshop, National Research Council Canada, Montreal (May).
CECAM workshop on Force Fields for Simulations of Macromolecules, Paris, France (July).
EMBO Course on Protein Crystallography, Uppsala, Sweden (Sept.).
Fourth European Seminar on Computer Aided Molecular Design, Helsingor, Denmark. (Oct.).

1988

Western Winter Workshop, Frontiers of NMR, UCLA Symposia on Molecular and Cellular Biology, Lake Tahoe, California (March).
Mosbach Colloquium of the Deutsche Gesellschaft für Biologische Chemie on Protein Structure and Enzyme Catalysis, Mosbach, Germany (April).
9th European Experimental NMR Conference, Bad Aussee, Austria (May).
Colloquium of the German Chemical Society on Molecular and Cellular Recognition, Irsee, Germany (April).
Meeting of the American Crystallographic Association, Philadelphia (July).
13th International Conference on Magnetic Resonance in Biological Systems, University of Wisconsin, Madison (Aug.).
Sixth Annual Smith, Kline & French Research Symposium on Protein Design and the Development of New Therapeutics and Vaccines, King of Prussia, Pennsylvania (Nov.).
16th Aharon Katzir-Katchalsky Conference on Dynamics in Molecular and Cellular Biology, Brussels, Belgium (Nov.).

1989

Symposium on Experimental and Theoretical Aspects of the Interactions that Determine Protein Conformation, National Institutes of Health, Bethesda (Jan.).
UCLA Colloquium on Frontiers of NMR in Molecular Biology, Park City, U.S.A. (Jan.).
Symposium sponsored by the Drug Information Association on Research Perspectives in Structural Biology and Chemistry, San Francisco (Jan.).
30th Experimental Nuclear Magnetic Resonance Conference, Asilomar, California (April).
19th FEBS Meeting, Rome, Italy (July).
2nd Symposium of Protein Engineering, Kobe, Japan (Aug.).
Spetsai Summer School on Molecular and Cellular Biology, "Protein and Genetic Engineering", Island of Spetsai, Greece (Sept.).
3rd Missouri Magnetic Resonance Symposium, University of Missouri, Columbia (Oct.).

1990

34th Annual Meeting of the Biophysical Society, Baltimore, Maryland (Feb.).
The Second York Meeting on the Generation of Structures from Distance Information, University of York, U.K. (April).
NATO Advance Research Workshop on Computational Aspects of the Study of Biological Macromolecules by NMR, Il Ciocco, Italy (June).
Whistler Conference on Expanding Frontiers in Polypeptide and Protein Structural Research, British Columbia, Canada (July).
14th International Conference of Magnetic Resonance in Biological Systems, University of Warwick, U.K. (Sept.)
2nd Nordic Protein Engineering Conference in Helsingør, Denmark (Oct.).
29th Eastern Analytical Symposium on 3D and other Novel Approaches in Protein NMR Spectroscopy, Somerset, New Jersey (Nov.).

Invited speaker at conferences (cont.)

1991

Keystone Meeting on Frontiers of NMR in Molecular Biology, Colorado (April).
Symposium on the Symbiosis of NMR, X-ray Crystallographic and Computational Techniques at American Society for Biochemistry and Molecular Biology Meeting, Atlanta, Georgia (also symposium organizer) (April).
Conference on Aspects of Drug Design, Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign (June).
Conference on New Developments in Drug Discovery and Drug Design, IBC Conferences, Philadelphia (Oct.).
30th Eastern Analytical Symposium on NMR Methods for Peptides and Proteins, Somerset, New Jersey (Nov.).

1992

33rd Experimental Nuclear Magnetic Resonance Conference, Asilomar, California (March).
Mid-Atlantic Protein Crystallography workshop, Center for Advanced Research in Biotechnology, Maryland (May).
Conference on 2D, 3D and 4D NMR: Developments and Applications, Wissembourg, France (May).
XV International Conference on Magnetic Resonance in Biological Systsems, Jerusalem, Israel (Aug.).
Symposium on Structural Biology, NIH Research Festival 1992, Bethesda (Sept.).
Southeastern Magnetic Resonance Conference, North Carolina State University (Oct.).
Macromolecular Crystallography, Cold Spring Harbor, New York (Oct.).

1993

Symposium on Structure and Function of Growth Factors, University of British Columbia, Vancouver, Canada (Jan.).
Biophysical Society Workshop on Single-Stranded Nucleic Acid-Binding Proteins, Washington D.C. (Feb.).
Keystone Meeting on Frontiers of NMR in Molecular Biology, Taos, New Mexico (March).
Protein Society Meeting, San Diego (July).
Workshop on Structural Biology and Respiratory Enzymes: Crystallography and NMR of Membrane Proteins, National Institutes of Health, Maryland (Aug.).
8th International Lymphokine Workshop and 4th International Workshop on Cytokines, Osaka, Japan (Oct.).
Cyanamid International Analytical Conference, Princeton, New Jersey (Oct.).
Macromolecular Crystallography, Cold Spring Harbor, New York (Oct.).

1994

Gordon Research Conference on Isotopes in Chemistry and the Life Sciences, Oxnard, California (March).
Symposium on Cytokine and Cytokine Receptor Structures and Structure/Function Relationships, FASEB Experimental Biology '94 Meeting, Annaheim, California (April).
Symposium on NMR of Biomolecules and Macromolecular Interactions, 28th Middle Atlantic Regional Meeting of the American Chemical Society (May).
XVIth International Conference on Magnetic Resonance in Biological Systems, Veldhoven, The Netherlands (Aug.).
10th International Conference on Methods in Protein Structure Analysis, Utah (Sept).
7th International Conference of the Inflammation Research Association, Pennsylvania (Sept.).
IBC Conference on Chemokines: Research for Therapeutics and Drug Development, Washington DC (Sept.).
International Symposium on NMR as a Structural Tool for Macromolecules: Current Status and Future Directions, Indiana University, Indianapolis (Oct.).
Macromolecular Crystallography, Cold Spring Harbor, New York (Oct.).

Invited speaker at conferences (cont.)

1995
Symposium on p53 and the Cell Cycle, University of York, U.K. (April).
Keystone Meeting on Frontiers of NMR in Molecular Biology IV, Keystone, Colorado (April).
Ninth Symposium on the Structure of AIDS related systems and their application to targeted drug design, National Institute of General Medical Sciences, Bethesda, Maryland (June).
Ninth Conversation in Biomolecular Stereodynamics, Albany, New York (June).
Proteins Gordon Conference, New Hampshire (June).
International NMR Meeting of the Royal Society of Chemistry, Manchester, U.K. (July).
Symposium on Biomolecular Structure and Function at the Silver Anniversary of the Northeast Regional Meeting of the American Chemical Society, Rochester, New York (Oct.).
Macromolecular Crystallography, Cold Spring Harbor, New York (Oct.).
American Association for Cancer Research Conference on "The Molecular Basis of Gene Transcription", San Diego (Dec.).

1996
Symposium on Advanced NMR Techniques and Biomolecular Structure, International Congress of the Pacific Basin Societies, Honolulu (Dec.).
Second International Symposium on Reversible Associations in Structural and Molecular Biology, Bethesda, Maryland (Feb.).
Science Innovation Symposium on Structural Biology, 1996 Annual Meeting of the American Association for the Advancement of Science (AAAS), Baltimore (Feb.).
International Symposium on Perspectives on Protein Engineering, Montpelier, France (March).
Symposium on the Biology and Biochemistry of Chemokines and Their Receptors, Frederick, Maryland (May).
Symposium entitled "Database III, 25 years of the PDB" at the XVII Congress and General Assembly of the International Union of Crystallography, Seattle (Aug.).
XVII International Conference on Magnetic Resonance in Biological Systems, Keystone, Colorado (Aug.).
Karolinska Institute 6th Summer School on "Understanding Protein Structure Determination", Stockholm, Sweden (Sept.).
Macromolecular Crystallography, Cold Spring Harbor, New York (Oct.).

1997
Keystone Symposium on Frontiers of NMR in Molecular Biology V, Taos, New Mexico (Feb.).
Gordon Conference on Protons and Membrane Reactions, California (Feb.).
5th Annual Advances in NMR Applications Symposium, Orlando, Florida (March).
2nd Joint Symposium of the Strategic Program for Innovative Research on AIDS Treatment and the National Cooperative Drug Discovery Groups for the Treatment of HIV Infection on "New Opportunities for HIV Therapy: From Discovery to Clinical Proof-of-Concept", Vienna, Virginia (June).
6th International Conference on Perspectives in Protein Engineering, Norwich, U.K. (June).
Gordon Conference on Proteins, Holderness, New Hampshire (June).
Conference on Rational Drug Design, National Managed Health Care Congress, Washington DC (Sept).
Sixth International Symposium on the Synthesis and Applications of Isotopes and Isotopically Labeled Compounds, Philadelphia (Sept.).
Workshop on Future Developments of CNS (Crystallography and NMR System) for Macromolecular Structure Determination, Cold Spring Harbor, New York (Nov.).
1st Meeting of the HIV Drug Resistance Program, NCI, Frederick, Maryland (Dec.).

1998
Novartis Workshop on "Structure Based Drug Design", Summit, New Jersey (March).
Symposium on NMR Studies of Biological Macromolecules, Danish NMR Center Copenhagen, Denmark (March).
Pharmacia-Upjohn Symposium on "NMR of Biological Macromolecules", Stockholm, Sweden (May).

Invited speaker at conferences (cont.)

NIGMS AIDS Symposium, Bethesda, Maryland (June).
18th International Conference on Magnetic Resonance in Biological Systems, Tokyo, Japan (Aug.).
1st Annual Bruker Atlantic Coast Conference, University of Maryland, Baltimore County (Oct.).

1999
Keystone Symposium on Frontiers of NMR in Molecular Biology VI, Breckenridge, Colorado (Jan.).
2nd HIV Drug Resistance Program Think Tank Meeting, NCI, Frederick (Feb.).
Proteins Gordon Research Conference, Holderness School, New Hampshire (June).
European Science Foundation Meeting on NMR in Molecular Biology, Granada, Spain (July).
Tsukuba NMR 99 Meeting, Tsukuba, Japan (Oct.).
6th Peptide Seminar, Osaka, Japan (Oct.).

2000
Symposium on "Frontiers of Protein Structure and Function" at the Year 2000 ACS Meeting, San Francisco (March).
2nd Frederick Workshop on the Cell Biology of Viral Entry, NCI-FCRDC, Frederick, Maryland (May).
Workshop on the Role of HMG Proteins in Chromatin Structure, Gene Expression and Neoplasia, National Institutes of Health, Bethesda, Maryland (May).
NIGMS AIDS Symposium, Bethesda, Maryland (June).
gp160 Think Tank, organized by the Vaccine Research Center (NIH), MIT Endicott House, Massachusetts (Aug.).
Symposium on "Understanding Phage Display: Structure, Biology and Applications", Simon Fraser University, Vancouver (Sept.).

2001
Keystone Symposium on Frontiers of NMR in Molecular Biology VII, Big Sky, Montana (Jan.).
Gordon Conference on Computational Aspects of Biomolecular NMR, Il Cioco, Italy (May).
12th Conversation in Biomolecular Stereodynamics, Albany (June).
Saul Roseman's 80th Birthday Symposium, Johns Hopkins, Baltimore (June).
Proteomics Plenary Session, NIH Research Festival, Bethesda (Oct.).
Second HIV Drug Resistance Symposium, Chantilly, Virginia (Dec.).

2002
HIV Drug Resistance Program 2002 Think Tank Meeting, Frederick, Maryland (March).
NIGMS 16th Annual Meeting on the Structure of AIDS-Related Systems and their Applications to Targeted Drug Design., Bethesda, Maryland (June).
XXth International Conference on Magnetic Resonance in Biological Systems, Toronto (Aug.).
West Coast Retrovirus Meeting, Palm Spring, California (Oct.).

2003
2003 HIV Drug Resistance Program Workshop, Frederick, Maryland (March).
NIGMS 16th Annual Meeting on the Structure of AIDS-Related Systems and their Applications to Targeted Drug Design., Bethesda, Maryland (June).
Eastern Analytical Symposium, Somerset, New Jersey (Nov.).

2004
Washington Area NMR Group Meeting, Bethesda, Maryland (Feb.).
Keystone Symposium on Frontiers in Structural Biology, Snowbird, Colorado (April).
45th ENC (Experimental NMR Conference), Asilomar, California (April).
Protein Structure, Catalysis and Dynamics: Molecular Assemblies Symposium at the 8th IUBMB Conference and Annual American Society for Biochemistry and Molecular Biology Meeting, Boston (June).
NIGMS Symposium on Pharmacology and Therapeutics: The Road to Identification of Molecular Targets and their Structures, Bethesda (Sept.).

Invited speaker at conferences (cont.)

15th International Society of Magnetic Resonance (ISMAR) meeting, Florida (Oct.).

2006
NMR Symposium on "NMR as a Tool in Biotechnology", Center for Advanced Research in Biotechnology, Maryland. (May).
22nd International Conference on Magnetic Resonance in Biological Systems (ICMRBS), Gottingen, Germany (Aug.).
CECAM Workshop on Protein Folding and Misfolding: Bringing Theory Close to Experiment, Lyon, France (Sept.).
Gordon Conference on "Computational Aspects of Biomolecular NMR", Aussois, France (Sept.).

2007
Keystone Symposium on Frontiers of NMR in Molecular Biology X, Snowbird, Utah (January).
2007 Danish NMR Symposium, Copenhagen (June).
16th Triennial Conference of the International Society of Magnetic Resonance, Taiwan (October).

2008
2nd International Conference on Molecular Perspectives on Protein-Protein Interactions, Dubrovnic, Croatia (June).
Structure Determination of Biological Macromolecules by Solution NMR, National Institutes of Health (Aug.).
23rd International Conference on Magnetic Resonance in Biological Systems, San Diego (Aug.).

2009
HIV Protease and Beyond: the Past, Present and Future of HIV Structural Biology, NCI, Frederick (Jan).
Mesilla Chemistry Workshop on Multi-Scale Modeling of Biological Molecules, Mesilla, New Mexico (Feb.).
Keystone Symposium on Frontiers of NMR in Molecular Biology XI, Santa Fe, New Mexico (Feb.).
VIII European Symposium of the Protein Society, Zurich (June).
16th Albany Conversation, Albany (June).
Keystone Symposium on Protein Dynamics, Allostery and Function, Keystone (June).
ACS Symposium on Protein Dynamics and Function, ACS National Meeting, Washington DC (Aug.)
3rd Asian-Pacific NMR Symposium, Korea (Oct.)

2010
Gordon Conference on Biomolecular Interactions and Methods, Galveston, Texas (Jan.).
Keystone Symposium on Structural Biology, Breckenridge, Colorado (Jan.)
CMC Strategy Forum, Bethesda (Jan).
4th CARB NMR symposium, Center for Advanced Research in Biotechnology, Maryland. (May).
Joint Euromar 2010 and 17th ISMAR Conference, Florence, Italy (July)
24th International Conference on Magnetic Resonance in Biological Systems, Cairns, Australia (Aug.)
3rd International Meeting on Molecular Perspectives on Protein-Protein Interactions, Coasta Brava, Spain (Nov.)

2011
Keystone Symposium on Frontiers of NMR in Biology, Big Sky, Montana (January)
16th Structural Biology Symposium, University of Texas Medical Branch, Galveston, Texas (April)
52nd Experimental NMR Conference (ENC), Asilomar (April)
Gordon Conference on Computational Aspects of Biomolecular NMR, Il Ciocco, Italy (May)
Symposium on Combined Techniques for Determining Structures of Proteins and RNA Complexes and RNA in Solution, American Crystallographic Association Annual Meeting, New Orleans (June)
Symposium on Macromolecular Structure and Dynamics, Seoul, South Korea (June)
Symposium on “DNA Search: from Biophysics to Cell Biology”, Safed Israel (September)
Barcelona Biomed Conference on Macromolecular Dynamics, Spain (October)

Invited speaker at conferences (cont.)

Saul Roseman Memorial Symposium, Johns Hopkins, Baltimore (December)

2012
ChemComm-RSC Prizes and Awards Symposium, Imperial College London (Feb.)
12th Chianti workshop on BioNMR, Tuscany, Italy (June).
25th International Conference on Magnetic Resonance in Biological Systems, Lyons, France (Aug.)
Special Symposium on Protein Structure and Function, University of Kansas (Oct.)
51st Annual Meeting of the Nuclear Magnetic Resonance Society of Japan, Nagoya, Japan (Nov.)
Biochemical Society (U.K.) Awards Symposium, Cambridge (Dec.)

2013
Keystone Symposium on Frontiers of NMR in Biology, Snowbird (January)
NMR Symposium at the Institute of Bioscience and biotechnology Research, Maryland (May)

Former trainees

Michael Nilges, PhD (Graduate student 1985-1987; Post-doc 1987-1989): Chair, Department of Structural Biology and Chemistry, Institut Pasteur, Paris, France.
Hartmut Oschkinat, PhD (Post-doc 1987-1989): Full Professor, Institute for Molecular Pharmacology, University of Berlin, Germany.
Tad Holak, PhD (Post-doc 1988-1989): Group leader, Max-Planck Institute for Biochemistry, Martinsried, Munich, Germany.
Paul Driscoll, PhD (Post-doc 1987-1990): Full Professor, Department of Biochemistry, University College London (U.K.) and Member of Scientific Staff, MRC National Institute for Medical Research, London.
July Forman-Kay, PhD (Graduate student 1989-1992; Post-doc 1992-1993): Full Professor, Department of Biochemistry, University of Toronto and Scientific Staff, Hospital for Sick Children, Toronto.
Mark Robien, MD (Howard Hughes medical student, 1990-1992): Medical Fellow, University of Washington, Seattle.
Bob Powers, PhD (Post-doc 1990-1993): Associate Professor, University of Nebraska
Dan Garrett, PhD (Post-doc 1990-1995): Staff scientist, Laboratory of Chemical Physics, NIDDK
Jim Omichinski, PhD (Post-doc, Staff fellow and Senior Staff fellow, 1989-1997): Full Professor, University of Montreal, Canada.
Bruce Grasberger, PhD (Post-doc, 1989-1993): Group leader, 3-Dimensional Pharmaceuticals, Pennsylvania.
Patricia Lodi LiWang, PhD (Post-doc and Cancer Research Institute Fellow, 1991-1995): Full Professor, University of California Merced.
Milton Werner, PhD (Post-doc, 1991-1996): Associate Professor, Rockefeller University (1996-2007). Vice President, Discovery Research, Celtaxsys Inc, Georgia (2007-).
Jun Qin, PhD (Post-doc, 1993-1996): Full Professor of Molecular Medicine, Lerner Research Institute, Cleveland Clinic Foundation, Cleveland.
Robert Clubb, PhD (Post-doc and Leukemia Society of America Fellow, 1993-1996): Full Professor, UCLA.
James Ernst, PhD (Pre-doctoral student, 1994-1995): Scientist, Genentech, San Francisco.
Wm. Dexter Kennedy, MD (Post-doc 1994-1996): Research Scientist, Department of Chemistry and Biochemistry, University of Austin, Texas.
Jeff Huth, PhD (Post-doc, 1994-1997): Senior scientist, Abbott Laboratories.
Mengli Cai, PhD (Post-doc, 1996-1998): Staff scientist, Laboratory of Chemical Physics, NIDDK.
Logan Donaldson, PhD (Post-doc 1996-1998): Full Professor, Department of Biology, York University, Toronto, Canada.
John Kuszewski, PhD (graduate student 1994-1998, Post-doc 1998-2001): Staff scientist, Center for Information Technology, NIH.
Mary Starich, PhD (Post-doc 1995-1998): Staff scientist, Structural Biophysics Laboratory, NCI.
Mats Wikström, PhD (Post-doc 1995-1997): Associate Professor, Faculty of Health Sciences, University of Copenhagen.
Silke Schumaker, PhD (Post-doc 1995-1997): CEO, Anadys Pharmaceuticals GmBH, Heidelberg, Germany.
Carole Bewley, PhD (Post-doc and Cancer Research Institute Fellow, 1995-1999): Senior Investigator, Section Chief and Deputy Laboratory Chief, Laboratory of Bioorganic Chemistry, NIDDK.
Michael Caffrey, PhD (Post-doc, 1996-1999) Associate Professor, University of Illinois at Chicago
Kai Huang, PhD (Post-doc 1997-1999): NMR facility manager, Structural Biology NMR Facility, Northwerstern University.
Elizabeth Murphy, PhD (Graduate student 1995-1999): Principal Information Officer at Universal High Tech development under contract to the National Eye Institute.
Demetrios Braddock, MD, PhD (Post-doc and Pathology Resident, NCI 1997-2000): Associate Professor, Department of Pathology, Yale University.
Elliott Gozansky, PhD (Post-Doc, 1998-2000): Resident physician, Diagnostic Radiology, University of Maryland Medical Center.
Gus Wang, PhD (Post-doc 1998-2002): Associate Professor, Department of Pathology and Microbiology, Eppley Cancer Institute, University of Nebraska Medical Center.

Gabriel Cornilescu, PhD (Post-doc and PRAT Fellow, 2000-2002): Academic Research Assistant, Nuclear Magnetic Resonance Facility (NMRFAM), University of Wisconsin, Madison.

Michal Komlosh, PhD (Post-doc, 2001-2004): Staff scientist, NICHD, NIH.

David Williams, MD, PhD (Post-doc and PRAT Fellow, 2001-2005): Assistant Professor, Department of Pathology, Virginia Commonwealth University School of Medicine, Richmond, Virginia.

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G. Marius CLORE: publications

- **Total citation count for articles published during the period Jan 1, 1977 to Oct 1, 2012: >50,000** (from full search of ISI Web of Science Citation Database)

- ***h*-index: 106** (the *h*-index is defined as the number of papers *h* having ≥*h* citations; J. E. Hirsch (2005) *Proc. Natl. Acad. Sci. U.S.A. 102*, 16569-16572; P. Ball (2005) *Nature 436*, 900).

- Original Member, ISI Highly Cited Researchers Database in Biology & Biochemistry and Chemistry Sections **(http://www.isishighlycited.com)**

- **8th most cited scientist in Chemistry over period Jan 1, 1998 to June 30, 2008 (**ISI Essential Science Indicators)

- **Top 35 in list of *h*-index rankings of living chemists** (www.rsc.org/images/H-index ranking of living chemists(December 2011)_tcm18-211414-1.pdf, published by the Royal Society of Chemistry in Chemistry World)

PDF files of all publications are available to download at http://spin.niddk.nih.gov/clore

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G. Marius Clore

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