

BIOGRAPHICAL SKETCH

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NAME: Michele, Cianci

eRA COMMONS USER NAME (credential, e.g., agency login): n/a

POSITION TITLE: Associate Professor of Biochemistry, Polytechnical University of Marche, Italy

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	Start Date MM/YYYY	Completion Date MM/YYYY	FIELD OF STUDY
University of Padova, Italy	Laurea	11/1992	07/1998	Chemistry
University of Manchester, UK	Ph.D.	03/1999	03/2002	Structural Biology

A. Personal Statement

I hold a tenure position as Associate Professor (SSD BIO/10) in the Department of Agricultural, Food and Environmental Sciences, Università Politecnica delle Marche, in Italy. I teach Biochemistry at undergraduates (LT) and enzymology and structural biology at graduate students (LM).

After graduating in Chemistry (1998) from the University of Padua, I was awarded a studentship from the University of Manchester (United Kingdom) where I gained my Ph.D. in structural biology in 2002. Soon after, I became staff scientist at STFC Daresbury for the development of beam line 10 for macromolecular crystallography and in-crystallo-spectroscopy methods. I joined the European Molecular Biology Laboratory (EMBL) at the Hamburg (Germany) outstation in 2006 where I contributed to the establishment of the Integrated Facility for Structural Biology. As Project Leader, I was responsible, for the design, commissioning and scientific program of the macromolecular crystallography beamline P13 at Petra III devoted to anomalous phasing of large complex systems. In 2008 the Italian Association of Crystallography awarded me the 'Mario Nardelli' prize for the contributions given to methods development in macromolecular crystallography.

At the Università Politecnica delle Marche I established the structural biology laboratory for cryo-Electron Microscopy and Macromolecular Crystallography by merging my professional experience with the existing molecular biology laboratory. Within few months I solved the first de novo structure of the NADQ bacterial transcription factor (Minazzato et al., 2022). I secured the partnership with TESPHERMA S.r.l (Corciano, IT) and with Sterling S.p.A. (Perugia, IT) for starting programs of structure-based drug design on the enzyme α -amino- β -carboxymuconate- ϵ -semialdehyde decarboxylase (ACMSD) (Cianci et al., 2022) and on the nuclear receptor hLRH1, respectively. In 2020, I obtained the habilitation to Full Professor (05/E1 – Biochemistry) from the Italian Ministry for Education, University and Research (MIUR).

Since 2019 we started our cryo-EM experiments by collecting data on urease, and in 2023 I visited for two months Prof. Amedee DesGeorges' Lab. at the Advanced Science Research Center, The City University of New York (USA), to further training in cryo-EM techniques. These development program generated our first cryo-EM publication:

- MC Cedri, H Bansia, A Amici, MG Ortore, A McCarthy, C Mueller-Dieckmann, R Lingas, B Durbeej, N Raffaelli, T Wang, A des Georges, M Cianci (202X). Cryo-EM structure of *H. americanus* α -crustacyanin and the basis of astaxanthin bathochromic shift for marine invertebrate colouration. To be submitted.
- MC Cedri, H Bansia, A Amici, T Collet, P Moretti, A McCarthy, C Mueller-Dieckmann, N Raffaelli, T Wang, A des Georges, M Cianci (2026). Sample purification and characterization of the α - and β -crustacyanin pigments from American lobster for crystallographic and cryo-EM studies. *Acta Crystallographica Structural Biology Communications Section* F. Accepted. <https://doi.org/10.1107/S2053230X2600018X>
- Luca Mazzei, Giancarlo Tria, Stefano Ciurli, Michele Cianci (2024). Exploring the conformational space of the mobile flap in *Sporosarcina pasteurii* urease by cryo-electron microscopy. *International Journal of Biological Macromolecules*, **283**, 137904.

The main grants supporting my research are:

2016 - present	Principal Investigator – Università Politecnica delle Marche, Premio Ricerca Scientifica di Ateneo, value 39295€.
2022 - present	Progetto Vitality (CUP: I33C22001330007), presentato nell'ambito dell'Avviso MUR - D.D. n. 3277/2021 - Ecosistemi dell'Innovazione - PNRR - Missione 4 Istruzione e Ricerca - Componente 2 Dalla ricerca all'impresa - Investimento 1.5, finanziato dall'Unione Europea - Next Generation EU
2021 - 2022	Co-Principal Investigator with Prof. N. Raffaelli - Research Agreement with D3A/TESPHARMA S.r.l. (Corciano, IT) "Studio degli Enzimi della Biosintesi del NAD+", value 50000€.
2019 - 2022	Member of research unit with Prof. N. Raffaelli. Project title: "Structure-based insights into the inflammatory functions of extracellular NAD biosynthetic enzymes" funded by Fondazione CariVerona, value 180000€.
2018 - 2019	Principal Investigator – Università Politecnica delle Marche, PSA2017CIA, "The mammalian lipoprotein lipase: from molecular structure to energy balance." Co-Applicants: Amici A, Ortore MG, Severi I, value 40000€.
2018 - 2019	Co-Principal Investigator with Prof. N. Raffaelli - Research Agreement D3A/Sterling S.p.A. (Perugia, IT) – "Characterisation and identification of LRH1 modulators.", value 50000€.
2018 - 2019	Co-Principal Investigator with Prof. N. Raffaelli - Research Agreement with D3A/TESPHARMA S.r.l. (Corciano, IT) "Sviluppo di metodologie enzimatiche dell'enzima ACMSD e metodi analitici ad esse correlati.", value 50000€.
2018	Fondo di finanziamento Attività di Base di Ricerca (FFABR) - Italian Ministry for Education, University and Research (MIUR), art. 1, commi 295-302, Legge n.232 dell'11.12.2016 – FFO 2017, value 3000€.

B. Positions, Scientific Appointments and Honors

Positions and Scientific Appointments	
2019 - today	Associate Professor in biochemistry and Structural Enzymology, Ricercatore a tempo determinato tipo B (RTD-B), Department of Agricultural, Food and Environmental Sciences, Università Politecnica delle Marche, Ancona (Italy).
2024 - 2025	Consultant for development of uXRD beamline at Elettra 2.0. Elettra Sincrotrone, Trieste-Basovizza, Italy.
02/2023 - 03/2023	Visiting Researcher in Prof. Amedee DesGeorges' Lab. Advanced Science Research Center, The City University of New York (USA).
2016 - 2019	Ricercatore a tempo determinato tipo B (RTD-B), Department of Agricultural, Food and Environmental Sciences, Università Politecnica delle Marche, Ancona (Italy).
2006 - 2016	Project Leader - Faculty member at European Molecular Biology Laboratory (EMBL). Hamburg (DE).
2002 - 2006	Developmental Research Scientist at Science & Technologies Facilities Council (STFC). SRS Daresbury Laboratory (UK).
Honors	
2020	Habilitation to Full Professor (05/E1 - I Fascia - Biochemistry) from the Italian Ministry for Education, University and Research (MIUR).
2014	Habilitation to Associate Professor (05/E1 - II Fascia - Biochemistry) from the Italian Ministry for Education, University and Research (MIUR).
2008	Italian Crystallographic Association, AIC Nardelli Prize.
2005	CCLRC (Science and Technology Facilities Council), UK, promotion to Senior Staff Scientist.
1999	Ph.D. Scholarship, EPSRC (Engineering and Physical Sciences Research Council), UK.
1999	Ph.D. Scholarship, The University of Manchester, UK.

1998	Habilitation to Chemistry professional society (IT); Italian Ministry for Education, University & Research (MIUR).
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C. Contributions to Science

I am the co-author of 78 publications in peer-reviewed journals. Additionally, I serve as a reviewer upon request for scientific journals such as Acta Crystallographica, Journal of Synchrotron Radiation, Journal of Applied Crystallography, Federation of American Societies for Experimental Biology (FASEB) Journal, Genome Research, Structure, Nature Communications, Plant Physiology and Biochemistry, Journal of Molecular Catalysis B, Journal of Food Biochemistry, BBA – Biomembranes, Structure, PLOS one, Swiss National Science Foundation.

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H-index (SCOPUS) 29; total citations (SCOPUS) 2687 as per 22nd of January 2026

My research activities focussed on:

Enzymology in biotechnology and drug design. Enzymes are key tools in the food industry, biofuel production and in organic synthesis, often in non-aqueous condition. Understanding enzyme behaviour in non-physiological conditions or in presence of the substrate is key step to enhance the catalytic properties.

NAD Pathway. Nicotinamide adenine dinucleotide (NAD⁺) and its metabolites function as critical regulators to maintain physiologic processes, enabling the plastic cells to adapt to environmental changes including nutrient perturbation, genotoxic factors, circadian disorder, infection, inflammation, and xenobiotics.

- G Minazzato, M Gasparrini, A Amici, **M Cianci**, F Mazzola, G Orsomando, L Sorci, N Raffaelli (2020). Functional characterization of COG1713 (YqeK) as a novel diadenosine tetraphosphate hydrolase family. *Journal of Bacteriology*, **202**, 30-35.
- **M Cianci***, N Giacchè, L Cialabrini, A Carotti, P Liscio, E Rosatelli, F De Franco, M Gasparrini, J Robertson, A Amici, N Raffaelli, R Pellicciari (2022). The crystal structure of human dimeric α -amino- β -carboxymuconate- ϵ -semialdehyde Decarboxylase (ACMSD) in Complex with the inhibitor TES-1025. *Frontiers in Molecular Biosciences* **9**, 834700.
- G Minazzato, M. Gasparrini, A. Heroux, NV Sernova, DA Rodionov, **M Cianci**, L Sorci, N Raffaelli (2022). Bacterial NADQ (cog4111) is an ATP- and NAD-responsive regulator of NAD biosynthesis. *Journal of Biological Chemistry*. **298**, 101669.
- DM Freire, C Gutierrez, A Garza-Garcia, ... **M Cianci**, TR Schneider et al. (2019). An NAD⁺ Phosphorylase Toxin Triggers Mycobacterium tuberculosis Cell Death. *Molecular Cell*, **73**, 1282-1291.

Enzymatic catalysis mechanisms. We studied how cations and anions are bound to a protein surface in presence of organic solvents in combination with molecular dynamics simulations and biochemistry to understand the effects of ions in enzymatic activities We investigated the “interfacial activation mechanism” of lipases in non-physiological conditions. Our findings offer new elements to elucidate the chemical mechanism, with the consequent implications for the catalytic properties and classification of lipases:

- L Silvestrini, **M Cianci*** (2020). Principles of lipid–enzyme interactions in the limbus region of the catalytic site of Candida antarctica Lipase B. *International Journal of Biological Macromolecules*, **158**, 358-363.
- B Stauch, SJ Fisher, **M Cianci*** (2015). Open and closed states of Candida antarctica Lipase B: protonation and the mechanism of interfacial activation. *Journal of Lipid Research*. **56**, 2348-2358.
- M Schürmann, R Meijers, TR Schneider, A Steinbüchel, **M Cianci*** (2015). 3-Sulfinopropionyl coenzyme A (3SP-CoA) desulfinase from Advenella mimigardefordensis DPN7T: crystal structure and function of a desulfinase with an acyl-CoA dehydrogenase fold. *Acta Crystallographica, Structural Biology Section D* **71**, 1360-1372.
- **M Cianci***, JR Helliwell, J Negroni and PJ Halling (2014). Extensive counter-ion interactions with subtilisin in aqueous medium. *RSC Advances*, **4**, 36771–36776.
- SJ Fisher, MP Blakeley, **M Cianci**, S McSweeney, JR Helliwell (2012). Protonation-state determination in proteins using high-resolution X-ray crystallography: effects of resolution and completeness. *Acta Crystallographica, Structural Biology Section D* **68**, 800-809.
- D Lousa, **M Cianci**, JR Helliwell, PJ Halling, AM Baptista, CM Soares (2012). Interaction of Counterions with Subtilisin in Acetonitrile: Insights from Molecular Dynamics Simulations. *Journal of Physical Chemistry. B*, **116**, 5838-5848.
- **M Cianci***, B Tomaszewski, JR Helliwell and PJ Halling (2010). Crystallographic Analysis of Counterion Effects on Subtilisin Enzymatic Action in Acetonitrile. *J.Am.Chem.Soc.* **132**, 2293-2300.

Ureases. we have a longstanding collaboration with Prof. S. Ciurli (UNIBO) and Dr. L. Mazzei (UNIBO) aiming to understand the enzymology and the development of inhibitors for urease, an enzyme of high agricultural and

medical interest in the control of the urea pathway of human pathogenic bacteria and recognized target for the development of new antibacterial agents:

- Luca Mazzei, Giancarlo Tria, Stefano Ciurli, Michele Ciani (2024). Exploring the conformational space of the mobile flap in *Sporosarcina pasteurii* urease by cryo-electron microscopy. *International Journal of Biological Macromolecules*, **283**, 137904.
- L Mazzei, A Paul, **M Ciani**, M Devodier, D Mandelli, P Carloni, S Ciurli (2023). Kinetic and structural details of urease inactivation by thiuram disulphides. *Journal of Inorganic Biochemistry* **250**, 112398.
- K Macegoniuk, W Tabor, L Mazzei, **M Ciani**, S Ciurli, Ł Berlicki (2023). Optimized Ebselen-Based Inhibitors of Bacterial Ureases with Nontypical Mode of Action. *Journal of Medicinal Chemistry*, **66**, 2054-2063.
- L Mazzei, **M Ciani**, S Ciurli (2022). Inhibition of urease by hydroquinones: a structural and kinetic study. *Chemistry—A European Journal* **28**, e202201770.
- L Mazzei, D Cirri, **M Ciani**, L Messori, S Ciurli (2021) Kinetic and structural analysis of the inactivation of urease by mixed-ligand phosphine halide Ag (I) complexes. *Journal of Inorganic Biochemistry* **218**, 111375.
- L Mazzei, F Musiani, S Žerko, W Koźminski, **M Ciani**, Y Beniamino, S Ciurli, B Zambelli (2021) Structure, dynamics, and function of SmR, a transcription factor for nickel-dependent gene expression *Metalomics*, **13**, mfab069.
- L Mazzei, L Massai, **M Ciani**, L Messori, S Ciurli (2021) Medicinal Au (I) compounds targeting urease as prospective antimicrobial agents: unveiling the structural basis for enzyme inhibition. *Dalton Transactions* **50**, 14444-14452.
- L Mazzei, U Contaldo, F Musiani, **M Ciani**, G Bagnolini, M Roberti, S Ciurli (2021). Inhibition of Urease, a Ni-Enzyme: The reactivity of a key thiol with mono- and di-substituted catechols elucidated by kinetic, structural, and theoretical studies. *Angewandte Chemie International Edition*, **60**, 6029-6035.
- L Mazzei, **M Ciani**, S Benini, S Ciurli (2019). The structure of the elusive urease-urea complex unveils a paradigmatic case of metallo-enzyme catalysis. *Angewandte Chemie International Edition*, **58**, 1-6.
- L Mazzei, MN Wenzel, **M Ciani**, M Palombo, A Casini, S Ciurli (2019). Inhibition Mechanism of Urease by Au(III) Compounds Unveiled by X-ray Diffraction Analysis. *ACS Medicinal Chemistry Letters*, **10**, 564-570.
- L Mazzei, **M Ciani**, U Contaldo, S Ciurli (2019). Insights into Urease Inhibition by N-(n-Butyl) Phosphoric Triamide through an Integrated Structural and Kinetic Approach. *Journal of Agricultural and Food Chemistry*, **67**, 2127-2138.
- L Mazzei, **M Ciani**, AG Vara, S Ciurli (2018). The structure of urease inactivated by Ag (I): a new paradigm for enzyme inhibition by heavy metals. *Dalton Transactions* **47**, 8240–8247.
- L Mazzei, **M Ciani**, U Contaldo, F Musiani, S Ciurli (2017). Urease inhibition in the presence of N-(n-Butyl) thiophosphoric triamide, a suicide substrate: Structure and kinetics. *Biochemistry*, **56**, 5391-5404.

Chemistry of carotenoids. astaxanthin is well known as one of the most powerful antioxidants available in nature. It is wide distributed across the living kingdom where is also serves as natural pigment protecting species from radiation damage and favouring mating. Understanding of the molecular basis of its pigmentation capabilities would offer the opportunity to develop compounds with colourant properties with antioxidant capabilities hence with high nutraceutical value.

- MC Cedri, H Bansia, A Amici, T Collet, P Moretti, MG Ortore, A McCarthy, C Mueller-Dieckmann, R Lingas, B Durbeej, N Raffaelli, T Wang, A des Georges, M Ciani (202X). Cryo-EM structure of *H. americanus* α -crustacyanin and the basis of astaxanthin bathochromic shift for marine invertebrate colouration. To be submitted.
- MC Cedri, H Bansia, A Amici, T Collet, P Moretti, A McCarthy, C Mueller-Dieckmann, N Raffaelli, T Wang, A des Georges, M Ciani (2026). Sample purification and characterization of the α - and β -crustacyanin pigments from American lobster for crystallographic and cryo-EM studies. *Acta Crystallographica Structural Biology Communications Section* **F82**, 1-8.
- S Begum, **M Ciani**, B Durbeej, O Falklöf, A Hädener, J. R. Helliwell, M. Helliwell, A. Regan, I. Watt (2015). On the Origin and Variation of Colors in Lobster Carapace. *Physical Chemistry Chemical Physics*, **17**, 16723-16732.
- M Ferrari, C Folli, E Pincolini, TS McClintock, M Rössle, R Berni and **M Ciani*** (2012). Molecular Basis of crustacean shell colours: structure and properties of H1 and H2 crustacyanins from lobster *Homarus Americanus*. *Acta Crystallographica, Structural Biology Communications Section* **F68**, 846-853.
- J Habash, JR Helliwell, J Raftery, **M Ciani**, PJ Rizkallah, NE Chayen, GA Nneji and PF Zagalsky (2004). The structure and refinement of apocrustacyanin C2 to 1.3 Å resolution and the search for differences between this protein and the homologous apoproteins A1 and C1. *Acta Crystallographica, Structural Biology Section* **D60**, 493-498.
- NE Chayen, **M Ciani**, JG Grossmann, G Habbash, JR Helliwell, GA Nneji, J Raftery, PJ Rizkallah and PF Zagalsky (2003). Unravelling the structural chemistry of the colouration mechanism in lobster shell. *Acta Crystallographica, Structural Biology Section* **D59**, 2072-2082.
- **M Ciani***, PJ Rizkallah, A Olczak, J Raftery, NE Chayen, PF Zagalsky and JR Helliwell (2002). The molecular basis of the coloration mechanism in lobster shell: β -crustacyanin at 3.2 Å resolution. *Proc. Natl. Acad. Sci. U. S. A.* **99**, 9795-9800.
- **M Ciani***, PJ Rizkallah, A Olczak, J Raftery, NE Chayen, PF Zagalsky and JR Helliwell (2001). The crystal structure of lobster apocrustacyanin A1 using softer X-rays. *Acta Crystallographica, Structural Biology Section* **D57**, 1219-1229.
- NE Chayen, **M Ciani**, A Olczak, J Raftery, PJ Rizkallah, PF Zagalsky and JR Helliwell (2000). Apocrustacyanin A1 from the Lobster Carotenoprotein, α -crustacyanin; crystallisation and initial X-ray analysis involving softer X-rays. *Acta Crystallographica, Structural Biology Section* **D56**, 1064-1066.

Amyloidosis. Transthyretin (TTR) is an amyloidogenic homotetramer involved in the transport of thyroxine in blood and cerebrospinal fluid. To date, more than 130 TTR point mutations are known to destabilise the TTR tetramer, causing its extracellular pathological aggregation accumulating in several organs, such as heart, peripheral and autonomic nerves, and leptomeninges, ultimately leading to Senile Systemic

Amyloidosis (SSA). To develop novel potent inhibitors of TTR amyloidogenesis, we investigate at the molecular level how compounds interact with the thyroxine binding sites to stabilize its native structure deploying a biophysical and structural approach as well as quantum mechanical calculations:

- T Poonsiri, D dell Accantera, V Loconte, A Casnati, L Cervoni, A Arcovito, ... , **M Cianci*** (2024). 3-O-methyltolcapone and Its Lipophilic Analogues are Potent Inhibitors of Transthyretin Amyloidogenesis with High Permeability and Low Toxicity. *International Journal of Molecular Sciences*, **25**, 479.
- V Loconte, **M Cianci***, I Menozzi, D Sbravati, F Sansone, A Casnati, R Berni (2020). Interactions of tolcapone analogues as stabilizers of the amyloidogenic protein transthyretin. *Bioorganic Chemistry*, **103**, 1041-44.
- P Florio, C Folli, **M Cianci**, D Del Rio, G Zanotti, R Berni (2015). Transthyretin binding heterogeneity and anti-amyloidogenic activity of natural polyphenols and their metabolites. *Journal of Biological Chemistry*, **290**, 29769-29780.
- **M Cianci***, C Folli, F Zonta, P Florio, R Berni, G Zanotti (2015). Structural evidence for asymmetric ligand binding to transthyretin. *Acta Crystallographica, Structural Biology Section* **D71**, 1572-1592.

Methods and instrumentation. I developed methods and instrumentation for structural biology, to exploit softer X-rays to solve the phase problem in crystallography, for combining crystallographic and spectroscopic XAFS data to investigate the chemical states of metallo-proteins. I designed, built and commissioned P13, one of the flagship beam-lines of the macromolecular crystallography at EMBL – Hamburg (DE), has generated over 1000 PDB depositions by users from all around the world since 2012:

- **M Cianci***, M Nanao, TR Schneider (2019). Long-wavelength Mesh&Collect native SAD phasing from microcrystals. *Acta Crystallographica, Structural Biology Section* **D75**, 192-199.
- N Foos, **M Cianci**, M Nanao (2019). Choosing your (Friedel) mates wisely: Grouping data sets to improve anomalous signal. *Acta Crystallographica, Structural Biology Section* **D75**, 200-210.
- A Olczak, **M Cianci*** (2018). The signal-to-noise ratio in SAD experiments. *Crystallography Reviews*, **24**, 73-101.
- **M Cianci***, G Bourenkov, G Pompidor, I Karpics, J Kallio, I Bento, M Roessle, F Cipriani, S Fiedler, TR Schneider (2017). P13, the EMBL macromolecular crystallography beamline at the low-emittance PETRA III ring for high- and low-energy phasing with variable beam focusing. *Journal of Synchrotron Radiation* **24**, 323-332.
- U Zander, **M Cianci**, N Foos, Catarina S Silva, L Mazzei, C Zubietta, A de Maria, M H Nanao (2016). Merging of synchrotron serial crystallographic data by a genetic algorithm. *Acta Crystallographica, Structural Biology Section* **D72**, 1026-1035.
- **M Cianci***, M Groves, D Barford, TR Schneider (2016). Data collection with a tailored X-ray beam size at 2.69 Å wavelength (4.6 keV): Sulfur SAD phasing of Cdc23Nterm. *Acta Crystallographica, Structural Biology Section* **D72**, 403-412.
- F Siewert, J Buchheim, T Hoft, S Fiedler, G Bourenkov, **M Cianci**, R Signorato (2012). High angular resolution slope measuring deflectometry for the characterization of ultra-precise reflective x-ray optics. *Measurement Science & Technology*, **23**, 074015.
- A Arcovito, C Ardiccioni, **M Cianci**, P D'Angelo, B Vallone, S Della Longa (2010). Polarized X-ray Absorption Near-Edge Structure Spectroscopy of Neuroglobin and Myoglobin Single Crystals. *The Journal of Physical Chemistry B*, **114**, 13223-13231.
- G Wellenreuther, **M Cianci**, R Tucoulou, W Meyer-Klaucke, H Haase (2009). Zinc-rich macrophage vesicles store the metal in a complexed form. *Biochem Biophys Res Commun*, **380**, 198-203.
- **M Cianci***, JR Helliwell and A Suzuki (2008). The interdependence of wavelength, redundancy and dose in sulfur sad experiments. *Acta Crystallographica, Structural Biology Section* **D64**, 1196-1209.
- A Arcovito, M Benfatto, **M Cianci**, SS Hasnain, K Nienhaus, GU Nienhaus, C Savino, RW Strange, B Vallone, S Della Longa (2007). X-ray structure analysis of a metalloprotein with enhanced active-site resolution using in situ x-ray absorption near edge structure spectroscopy. *Proc. Natl. Acad. Sci. U. S. A.* **104**, 6211-6216.
- **M Cianci***, S Antonyuk, N Bliss, MW Bailey, SG Buffey, KC Cheung, JA Clarke, GE Derbyshire, MJ Ellis, MJ Enderby, AF Grant, MP Holbourn, D Laundry, C Nave, R Ryder, P Stephenson, JR Helliwell and SS Hasnain (2005). A high-throughput structural biology/proteomics beamline at the srs on a new multipole wiggler. *Journal of Synchrotron Radiation* **12**, 442-452.
- **M Cianci***, JR Helliwell, M Helliwell, V Kaucic, NZ Logar, G Mali and NN Tusar (2005). Anomalous scattering in structural chemistry and biology. *Crystallography Reviews* **11**, 245-335.
- MP Blakeley, **M Cianci**, JR Helliwell and PJ Rizkallah (2004) Synchrotron and neutron techniques in biological crystallography. *Chemical Society Review* **33**, 548-57.
- **M Cianci***, JR Helliwell, D Moorcroft, A Olczak, J Raftery and PJ Rizkallah (2004). The role of wavelength and source in the search for sulfur atom positions evaluated in two case studies: lysozyme at room temperature and cryo apo crustacyanin A1. *Journal of Applied Crystallography* **37**, 555-564.
- A Olczak, **M Cianci**, Q Hao, PJ Rizkallah, J Raftery and JR Helliwell (2003). Softer-SWAT (Softer-Single Wavelength Anomalous Technique): potential in high-throughput protein crystallography. *Acta Crystallographica, Foundation and Advances Section* **A59**, 327-334.