

Publications reliées au laboratoire Cryobench

2008

Coureux PD, Fan ZP, Stojanoff V, et al.

Picometer-scale conformational heterogeneity separates functional from nonfunctional states of a photoreceptor protein

Structure (2008), 6, 863-872.

Hersleth HP, Hsiao YW, Ryde U, et al.

The crystal structure of peroxymyoglobin generated through cryoradiolytic reduction of myoglobin compound III during data collection

Biochemical J. (2008), 412, 257-264.

2007

J. E. McGeehan, P. Carpentier, A. Royant, D. Bourgeois, and R. B.G. Ravelli

X-ray Radiation-induced damage in DNA monitored by online Raman

J. Synchrotron Rad.(2007), 14, 97-108..

G. Katona, P. Carpentier, V. Nivière, V. Adam, P. Amara, J. Ohana, N. Tsanov, & D. Bourgeois

Raman assisted crystallography reveals end-on peroxide intermediates in a non-heme iron enzyme

Science.(2007), 316, 449-52

Schmidt M, Patel A, Zhao Y & Reuter W

Structural basis for the photochemistry of alpha-phycoerythrocyanin

Biochemistry 46 (2): 416-423

Beitlich T, Kuhnel K, Schulze-Briese C, Shoeman RL, Schlichting I

Cryoradiolytic reduction of crystalline heme proteins: analysis by UV-Vis spectroscopy and X-ray crystallography

J. Synchrotron Rad 14 (1): 11-23

A. Royant , P. Carpentier, J. Ohana, J. McGeehan, B. Paetzold, M. Noirclerc-Savoie, X. Vernede & D. Bourgeois

Advances in spectroscopic methods for biological crystals, part II: fluorescence lifetime measurements”

J. Appl. Cryst. (2007), **40**, 1105-1112

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Advances in spectroscopic methods for biological crystals, part II: Raman spectroscopy

J. Appl. Cryst. (2007), **40**, 1113-1122

D. Bourgeois, E. de Rosny, G. Katona

La cristallographie cinétique : un outil pour filmer les protéines au travail

Biofutur.(2007), **280**, 48-51

J.P.Colletier, A. Royant, A. Specht, B. Sanson, F. Nachon, P. Masson, G. Zaccai, J.L. Sussman, M. Goeldner, I. Silman, D. Bourgeois & M. Weik.

"Use of a 'caged' analogue to study the traffic of choline within acetylcholinesterase by kinetic crystallography..”

Acta. Cryst. D, (2007), **63**, 1115-1128.

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Marcaida MJ, Schlarb-Ridley BG, Worrall JAR, Wastl J, Evans TJ, Bendall DS, Luisi BF & Howe CJ

Structure of cytochrome c(6A), a novel dithio-cytochrome of *Arabidopsis thaliana*, and its reactivity with plastocyanin: Implications for function

Journal of Molecular Biology **360** (5): 968-977

Klink BU, Goody RS & Scheidig AJ

A newly designed microspectrofluorometer for kinetic studies on protein crystals in combination with x-ray diffraction

Biophysical Journal **91** (3): 981-992

Sainz G, Jakoncic J, Sieker LC, Stojanoff V, Sanishvili N, Asso M, Bertrand P, Armengaud J & Jouanneau Y

Structure of a [2Fe-2S] ferredoxin from *Rhodobacter capsulatus* likely involved in Fe-S cluster biogenesis and conformational changes observed upon reduction

Journal of Biological Inorganic Chemistry **11** (2): 235-246

Vernede X, Lavault B, Ohana J, Nurizzo D, Joly J, Jacquamet L, Felisaz F, Cipriani F & Bourgeois D

UV laser-excited fluorescence as a tool for the visualization of protein crystals mounted in loops

Acta Crystallographica Section D **62** (3): 253-261

Williams P, Coates L, Mohammed F, Gill R, Erskine P, Bourgeois D, Wood SP, Anthony C & Cooper JB

The 1.6 angstrom X-ray structure of the unusual c-type cytochrome, cytochrome c(L), from the methylotrophic bacterium *Methylobacterium extorquens*

Journal of Molecular Biology **357** (1): 151-162

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X-ray structure of domain I of the proton-pumping membrane protein transhydrogenase from *Escherichia coli*

Journal of Molecular Biology **352** (2): 299-312

Bourgeois D & Royant A

Advances in kinetic protein crystallography

Current Opinion in Structural Biology **15**: 538-547

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Pearson AR, Mozzarelli A & Rossi GL

Microspectrophotometry for structural enzymology

Current Opinion in Structural Biology **14** (6): 656-662

Judge RA, Swift K & Gonzalez C

An ultraviolet fluorescence-based method for identifying and distinguishing protein crystals

Acta Crystallographica Section D **61**: 60-66

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Structure of superoxide reductase bound to ferrocyanide and active site expansion upon X-ray-induced photo-reduction

Structure **12** (9): 1729-1740

Neutze R, Huldt G, Hajdu J & van der Spoel D

Potential impact of an X-ray free electron laser on structural biology

Radiation Physics and Chemistry **71** (3-4): 905-916

Powe AM, Fletcher KA, St Luce NN, Lowry M, Neal S, McCarroll ME, Oldham PB, McGown LB & Warner IM

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Analytical Chemistry **76** (16): 4614-4634

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DNA apophotolyase from *Anacystis nidulans*: 1.8 angstrom structure, 8-HDF reconstitution and X-ray-induced FAD reduction

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Dias JM, Alves T, Bonifacio C, Pereira AS, Trincao J, Bourgeois D, Moura I & Romao MJ

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Kort R, Hellingwerf KJ & Ravelli RBG

Initial events in the photocycle of photoactive yellow protein

Journal of Biological Chemistry **279** (25): 26417-26424

Weik M, Vernede X, Royant A & Bourgeois D

Temperature derivative fluorescence spectroscopy as a tool to study dynamical changes in protein crystals

Biophysical Journal **86** (5): 3176-3185

Jacquamet L, Ohana J, Joly J, Legrand P, Kahn R, Borel F, Pirocchi M, Charrault P, Carpentier P & Ferrer J-L

A new highly integrated sample environment for protein crystallography

Acta Crystallographica Section D **60**: 888-894

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Deformation of helix C in the low temperature L-intermediate of bacteriorhodopsin

Journal of Biological Chemistry **279** (3): 2147-2158

2003

Kort R, Ravelli RBG, Schotte F, Bourgeois D, Crielaard W, Hellingwerf K J & Wulff M

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Photochemistry and Photobiology **78** (2): 131-137

Aragao D, Macedo S, Mitchell EP, Romao CV, Liu MY, Frazao C, Saraiva LM, Xavier AV, LeGall J, van Dongen WMAM, Hagen WR, Teixeira M, Carrondo MA & Lindley P

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Journal of Molecular Biology **327** (5): 1077-1092

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Journal of Synchrotron Radiation **9**: 342-346

Murray J & Garman E

Investigation of possible free-radical scavengers and metrics for radiation damage in protein cryocrystallography

Journal of Synchrotron Radiation **9**: 347-354

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Crystal structures of transhydrogenase domain I with and without bound NADH

Biochemistry **41** (42): 12745-12754

Ursby T, Weik M, Fioravanti E, Delarue M, Goeldner M & Bourgeois D

Cryophotolysis of caged compounds: a technique for trapping intermediate states in protein crystals.

Acta Crystallograpica Section D **58**: 607-614