

### Crystallization of Membrane Proteins:

**The Structure of the Potassium Channel: Molecular Basis of K<sup>+</sup> Conduction and Selectivity.**

Doyle DA, Cabral JM, Pfuetzner RA, Kuo A, Gulbis JM, Cohen SL, Chait BT, MacKinnon R.

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Decyl Maltoside

**X-ray Structure of a Cl<sup>-</sup> Chloride Channel at 3.0 Å Reveals the Molecular Basis of Anion Selectivity.**

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Dodecyl Maltoside, Octyl Maltoside

**Crystal Structure and Functional Analysis of the HERG Potassium Channel N-terminus: A Eukaryotic PAS Domain.**

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Octyl Glucoside

**Structure at 2.7 Å Resolution of the *Paracoccus denitrificans* Two-Subunit Cytochrome *c* Oxidase Complexed With an Antibody F<sub>v</sub> Fragment.**

Ostermeier C, Harrenga A, Ermler U, Michel H. *Proc Natl Acad Sci USA*. 94;1997:10547-10553.

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**X-Ray Diffraction Analysis of Three-Dimensional Crystals of Bovine Rhodopsin Obtained From Mixed Micelles.**

Okada T, Le Trong I, Fox BA, Behnke CA, Stenkamp RE, Palczewski K. *J Struct Biol*. 130;2000:73-80.

Nonyl Glucoside

**Two-Dimensional Crystallization of *Escherichia coli* Lactose Permease.**

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Dodecyl Maltoside, Decyl Maltoside, Octyl Glucoside

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Octyl Glucoside

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Undecyl Maltoside

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Dodecyl Maltoside, Undecyl Maltoside, Decyl Maltoside, Nonyl Glucoside, CYMAL<sup>®</sup>-5, CYMAL<sup>®</sup>-6,

HEGA<sup>®</sup>-10, FOS-MEA<sup>®</sup>-10, C<sub>12</sub>E<sub>9</sub>, C<sub>12</sub>E<sub>8</sub>, C<sub>12</sub>E<sub>6</sub>

**Detergents Destabilize the Cubic Phase of Monoolein: Implications For Membrane Protein Crystallization.**

Misquitta Y, Caffrey M. *Biophys J.* 85;2003:3084-3096.

Decyl Maltoside, Hexyl Glucoside, Nonyl Glucoside, Octyl Glucoside, LDAO

**Membrane Protein Crystallization in Lipidic Mesophases: Detergent Effects**

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Dodecyl Maltoside

**Spectroscopic Evidence that Osmolytes Used in Crystallization Buffers Inhibit a Conformation Change in a Membrane Protein.**

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Octyl Glucoside

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Octyl Glucoside

**NMR of Membrane Proteins:**

**Solution NMR Spectroscopy of [ $\alpha$ -<sup>15</sup>N] Lysine-Labeled Rhodopsin: The Single Peak Observed in Both Conventional and TROSY-Type HSQC Spectra is Ascribed to Lys-339 in the Carboxyl-Terminal Peptide Sequence.**

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Dodecyl Maltoside, Octyl Glucoside

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Dodecyl Maltoside

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**Topology and Secondary Structure of the N-Terminal Domain of Diacylglycerol Kinase.**

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Fos-Choline<sup>®</sup>-12, Decyl Maltoside

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Dodecyl Maltoside

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Dodecyl Maltoside, Tetradecyl Maltoside, Hexadecyl Maltoside

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Dodecyl Maltoside

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**Protein folding:**

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Octyl Glucoside

**Misfolding of a Bacterial Autotransporter.**

Mogensen JE, Kleinschmidt JH, Schmidt MA, Otzen DE. *Protein Sci*. 14;2005:2814-2827.  
Dodecyl Maltoside, Octyl Glucoside

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Decyl Maltoside, Fos-Choline® -12

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CYMAL® -5, CYMAL® -6, Fos-Choline® -9, HECAMEG, Undecyl Maltoside, C<sub>12</sub>E<sub>8</sub>, C<sub>8</sub>E<sub>5</sub>

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Alkyl Maltosides, Octyl Glucoside

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CHAPSO, Nonyl Glucoside, Octyl Glucoside

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Dodecyl Maltoside

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