

## The X-ray structure of human calbindin-D28K: an improved model

Article (Supplemental Material)

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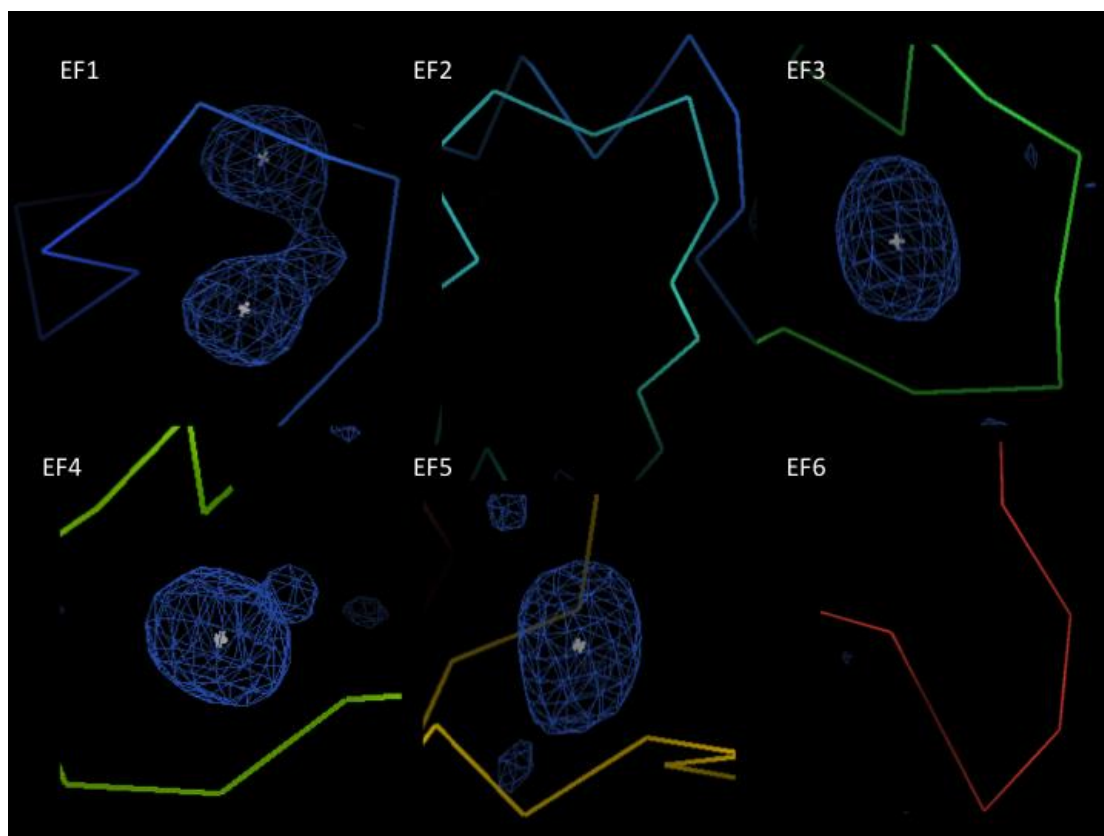
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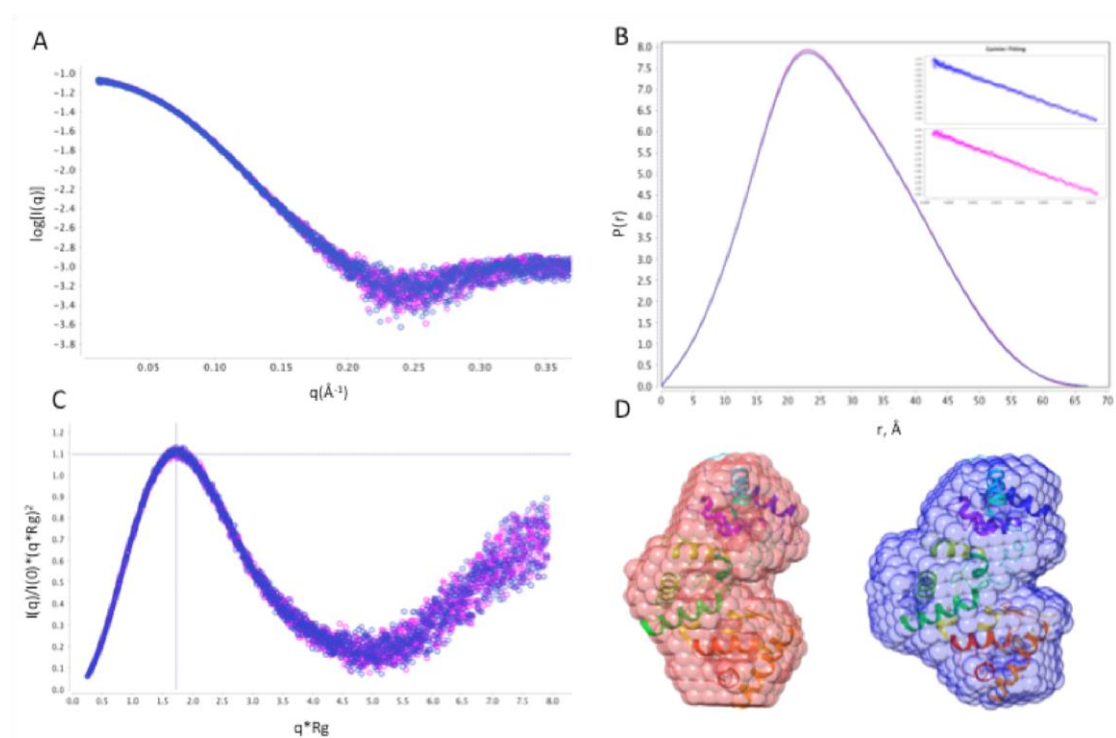
**Supporting information for article:**

**The X-ray structure of human calbindin-D28K: an improved model**

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Ramona Duman and John R. Atack**



**Figure S1** Anomalous Fourier map and heavy atoms computed with ANODE (Thorn & Sheldrick, 2011). Only the calcium binding EF hands contain strong peaks in the Fourier synthesis, allowing the direct visualization of the calcium atoms from crystal condition 1. EF hand 1, 3, 4 and 5 contain calcium with EF1 having two strong peaks indicating it binding calcium in two different conformations.



**Figure S2** This figure is colour coded, blue APO and pink for calcium bound Calbindin-D28K. A. Log10 SAXS intensity versus scattering vector,  $q$ . Plotted range represents the positive only data within the specified  $q$ -range. B. Pair-distance,  $P(r)$ , distribution function. Maximum dimension,  $d_{max}$ , is the largest non-negative value that supports a smooth distribution function. The Guinier fitting for both data sets are also shown. C. Dimensionless Kratky plot. Cross-hair marks the Guinier-Kratky point (1.732, 1.1), the main peak position for globular particles. D. *Ab initio* envelopes with 6FIE superimposed.