

# Exploring Wells-Dawson Clusters associated with the Small Ribosome Subunit

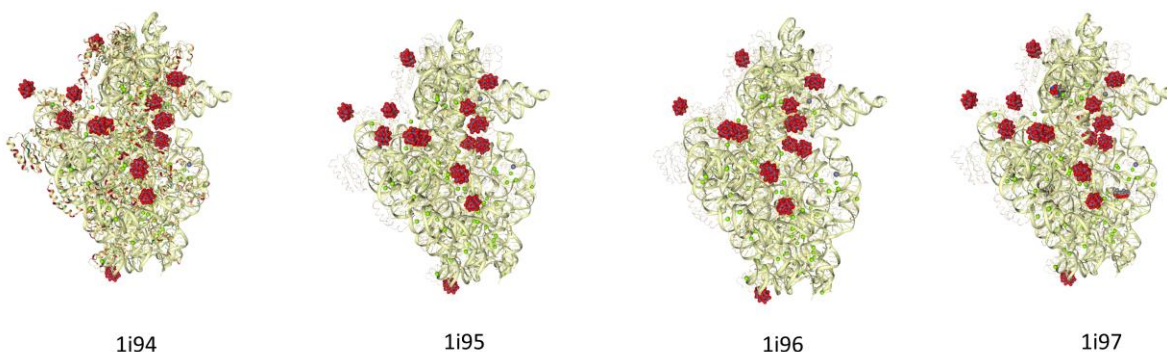
## Supporting Information

Debbie C. Crans,<sup>1\*</sup> Irma Sánchez-Lombardo<sup>1,2</sup> and Craig C. McLauchlan<sup>3\*</sup>

<sup>1</sup> Department of Chemistry, Colorado State University, Fort Collins, 80523 USA Fax: +970-491-7635 E-mail: Debbie.Crans@ColoState.edu <http://wp.natsci.colostate.edu/crans/>

<sup>2</sup> División de Ciencias Básicas, Universidad Juárez Autónoma de Tabasco, Cunduacán, Tabasco 86690, Mexico; Email: irmas\_1@yahoo.com.mx

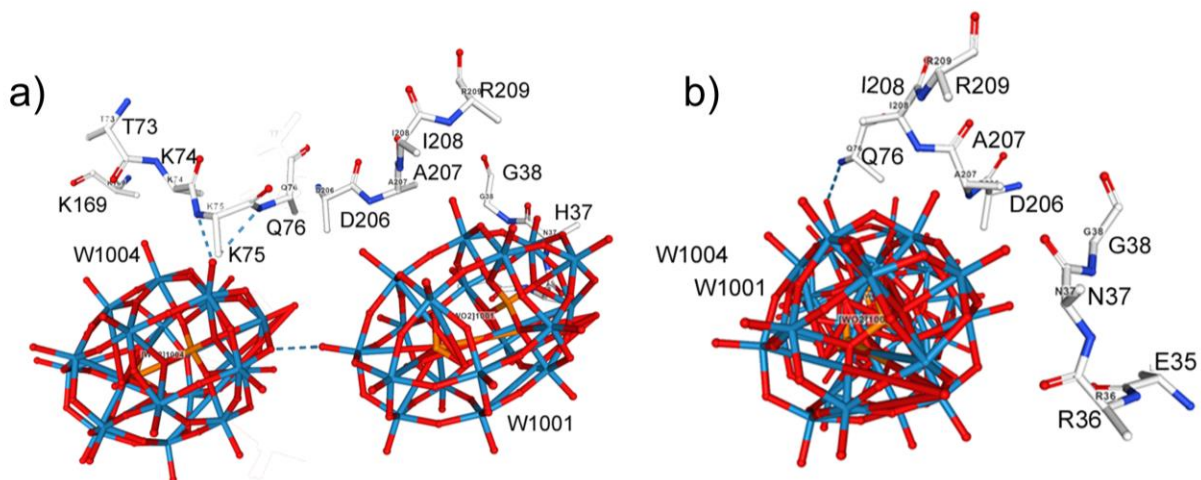
<sup>3</sup> Department of Chemistry, Illinois State University, Normal, IL 61790-4160 USA Fax: +309-438-5538 E-mail: McLauchlan@IllinoisState.edu <http://chemistry.illinoisstate.edu/ccmclau/>



**Figure S1.** Comparison of ribosome structures from Protein Data Bank showing P<sub>2</sub>W<sub>18</sub> clusters (red).

**Table S1.** All WO<sub>2</sub> –containing structures from Protein Data Bank (PDB).

| PDB Code | Structure                                  | Reference                      |
|----------|--|--------------------------------|
| 1I94     | T30S Ribosomal subunit at 3.2 Å resolution | Pioletti <i>et al.</i> , 2001  |
| 1I95     | T30S Ribosomal subunit with Edeine         | Pioletti <i>et al.</i> , 2001  |
| 1I96     | T30S Ribosomal subunit with IF3            | Pioletti <i>et al.</i> , 2001  |
| 1I97     | T30S Ribosomal subunit with tetracycline   | Pioletti <i>et al.</i> , 2001  |
| 1FKA     | T30S Ribosomal subunit at 3.3 Å resolution | Schlunzen <i>et al.</i> , 2000 |
| 1DV4     | Partial structure of 16S RNA of T30S       | Tocilj <i>et al.</i> , 1999    |



**Figure S2.** Alternative views of Figure 5 showing more detail of interactions between representative Double Wells-Dawson cluster consisting of clusters 1001 and 1004 with protein in li94 a) as shown in Figure 5, and b) rotated by  $\sim 90^\circ$  to show interactions with residues 35-38.