Here are some resources to learn about the structure of proteins in general:

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| Learning about chemical interactions in biological macromolecules |
| # | Resource Name | Authors (where available) | Link/Detail | Comment |
| 1 | Online Macromolecular Museum https://earth.callutheran.edu/Academic_Programs/Departments/BioDev/omm/images/600x214xomm_logo1.png.pagespeed.ic.X6qQHivDa_.png | Yasi Mojab and David Marcey | <http://earth.callutheran.edu/Academic_Programs/Departments/BioDev/omm/jsmolnew/bonding/chymo.html>  | An Introduction to Chemical Bonds and Protein Structure |
| 2 | PDB-101RCSB PDB | David Goodsell and Maria Voigt | <http://pdb101.rcsb.org/learn/videos/what-is-a-protein-video>  | What is a Protein? |
| 3 | Internet Course on **The Principles of Protein Structure**  | Organized by [Birkbeck College](http://www.cryst.bbk.ac.uk/default.html) | <http://www.cryst.bbk.ac.uk/PPS95/course/3_geometry/index.html>  | Protein Geometry |
| 4 | PDB-101RCSB PDB | Shuchismita Dutta, Rachel Kramer Green, and Catherine L. Lawson | <http://pdb101.rcsb.org/learn/guide-to-understanding-pdb-data/biological-assemblies> | asymmetric units and biological assemblies |
| 5 | PDB-101RCSB PDB | David Goodsell | <http://pdb101.rcsb.org/learn/guide-to-understanding-pdb-data/introduction>  | Introduction to PDB Data |

To learn more about the Piwi Mutants discussed in the case see <http://www.genesdev.org/cgi/doi/10.1101/gad.209841.112>.

To learn more about the Piwi structure see

<https://www.nature.com/articles/s41467-020-14687-1>