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Linking simple molecules to grain evolution across planet-forming disks

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Linking simple molecules to grain evolution across planet-forming disks.

1. Intermixed water and ammonia ices in the disk around TW Hya must be confined radially and vertically (*Chapter 3*).
2. Keplerian masking is a simple and powerful method to improve the visualization of faint molecular emission from planet-forming disks (*Chapter 5*).
3. Dust evolution in planet-forming disks sculpts the spatial distribution of simple molecules (*Chapters 3 & 6*).
4. DCO^+ traces the onset of CO sublimation in planet-forming disks (*Chapter 6*).
5. The next generation of space telescopes is indispensable to reach a full understanding of water in the planet formation process.
6. The detection of organic molecules should not eclipse the importance of nitrogen chemistry in planet-forming disks to understand the origin of life on Earth.
7. In science, as in music, interpretation is often as important as the source material.
8. Parametric models can uncover insights from complex data that fully self-consistent models cannot.
9. A good scientist must also be a good storyteller.
10. The sexual orientation or gender of a person has no impact on his or her competence as a parent.