**Wobble**

G-U pairs form at the third codon base

Standard base pairs occur at all positions

![Diagram of G-U pairs forming at the third codon base](https://www.ergito.com)

**Figure 7.4** Wobble in base pairing allows G-U pairs to form between the third base of the codon and the first base of the anticodon.

<table>
<thead>
<tr>
<th>The third codon base wobbles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base in First Position of Codon</td>
</tr>
<tr>
<td>U</td>
</tr>
<tr>
<td>C</td>
</tr>
<tr>
<td>A</td>
</tr>
<tr>
<td>G</td>
</tr>
</tbody>
</table>

**Figure 7.5** Codon-anticodon pairing involves wobbling at the third position.

Inosine pairs with three bases

- Sugar
- Cytosine
- Uracil
- Guanine
- Adenine
- Sugar

G-U wobble pairing occurs only at third codon position

![Diagram of inosine pairing with three bases](https://www.ergito.com)

**Figure 7.8** Inosine can pair with any of U, C, and A.

Figure 7.8 Inosine can pair with any of U, C, and A.

![Diagram of ribosome structure](https://www.ergito.com)

- **Ribosome 70-80S**
- **Large subunit 50-60S**
- **Small subunit 30-40S**

**Ribosome structure**

- **5S RNA**
- **23-28S RNA**
- **16-18S RNA**

**5S RNA**

- **5.8S RNA**
- **23-28S RNA**
- **34-45 different proteins**

**16-18S RNA**

- **21-33 different proteins**