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This is slide from Dr. Monika Krüger – that says it all or most of it....

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EPSP synthase domains conferring
glyphosate resistance

- Glyphosate-class herbicides **inhibit aromatic amino acid biosynthesis**, they not only kill plant cells, but are **also toxic to bacterial cells**. Glyphosate **inhibits many bacterial EPSP synthase**, and thus is toxic to these bacteria. However, **certain bacterial EPSP synthases have a high tolerance to glyphosate**.