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Summary on hERG assays

- General considerations concerning bioconjugates
 Not likely to enter cells and block channel as do small molecules (size matters).
 Not likely to interact with other proteins except for highly specific receptor targets.
 Feasibility
- Persistently
 Effects of an organic linker in a bioconjugate on the hERG channel.
 Binding to the toxin binding site.
 Secondary effects, not a direct reaction to hERG channel.
 Conclusions

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- For biopharmaceuticals, *in vivo* test systems are more appropriate and better predictors of QT prolongation risk than *in vitro* assays.
- If QT prolongation is observed *in vivo*, the mechanism should be clarified using an *in vitro* system.

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