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Inter strand crosslinks in DNA induced *in vivo* by percutaneous application of sulphur mustard to rats and mice.

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**Highlights**

- Sulphur mustard applied percutaneously rapidly spreads in different organs.
- It induces DNA crosslinks in lymphocytes, liver, bone marrow, spleen, colon.
- Crosslinks are removed by DNA repair.
- More crosslinks are found in rats compared to mice.

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