

Aluminum-[¹⁸F]Fluoride Radiolabeling Optimization by Design of Experiments Approach

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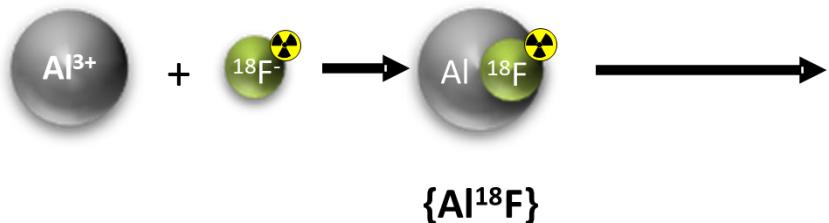
ELLISTAT



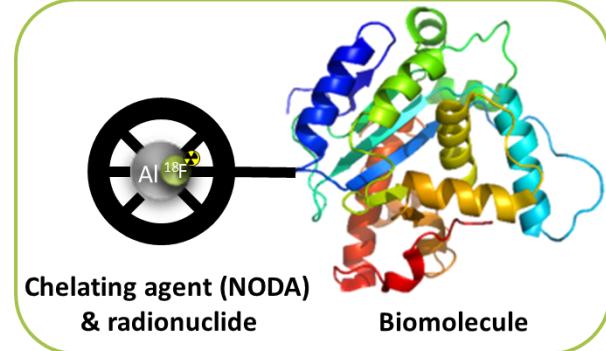
Inserm



Optimize the radiolabeling yield



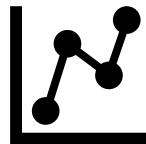
Targeted Radiotracer



Design of experiments approach



Results



- ≠ One variable at a time (OVAT) approach
 - Study factors simultaneously
 - Modelize the impact
 - Predict the optimal conditions
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- 40 tests (5 days)
 - Radiolabeling yield: from 60 % to 80 %
 - Improving radioprotection of workers
 - Saving time and experimental materials

