

Polymorphism Control of a Schiff base *via* solvent-free and solution based synthesis

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The Boss
(D.C.)
The Student
(I.N.)
The African
runaway (M.Z.)

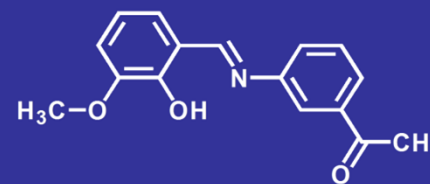


Synthesis

Monday!



o-vanillin and 3-aminoacetophenone



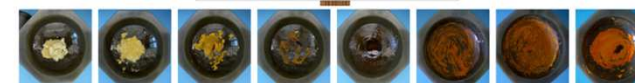
Solution based synthesis

Mechanochemical methods

Mechanochemical methods

Polymorph I

Orthorhombic $Pna2_1$



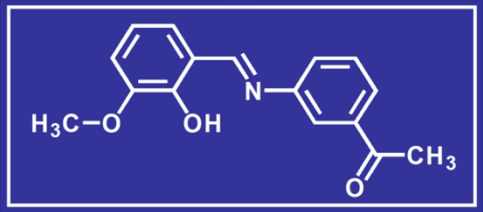
Neat grinding

Liquid-assisted grinding

Synthesis



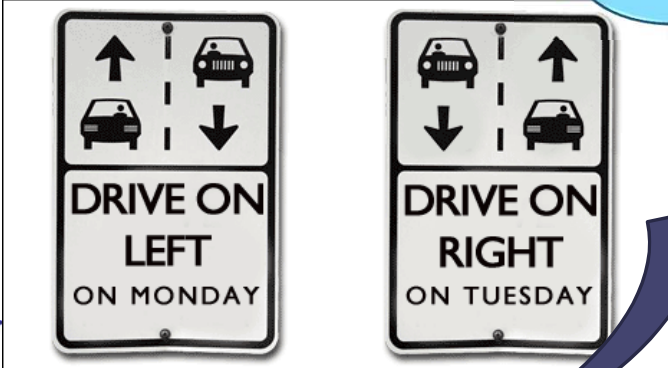
o-vanillin and 3-aminoacetophenone



Solution based synthesis

Mechanochemical methods

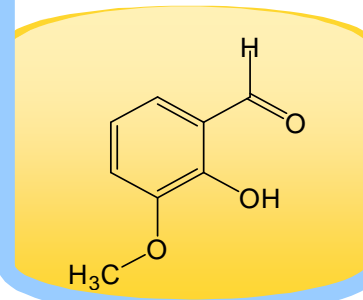
Tuesday!



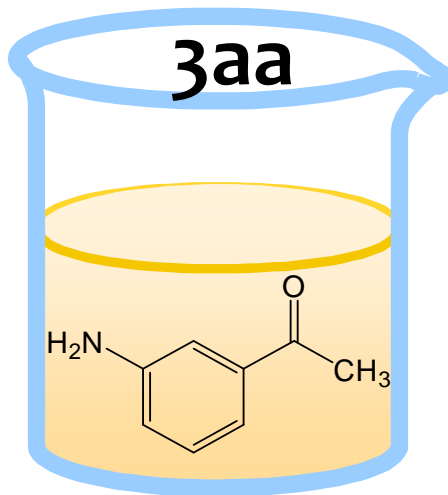
Ethanol-based synthesis

translucent

ovan

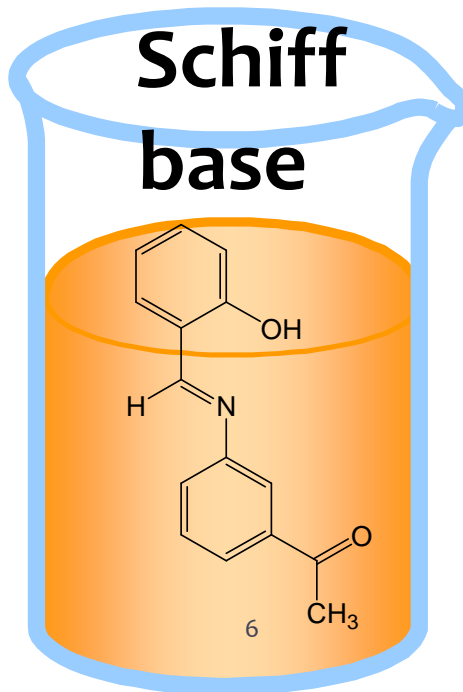


3aa



+

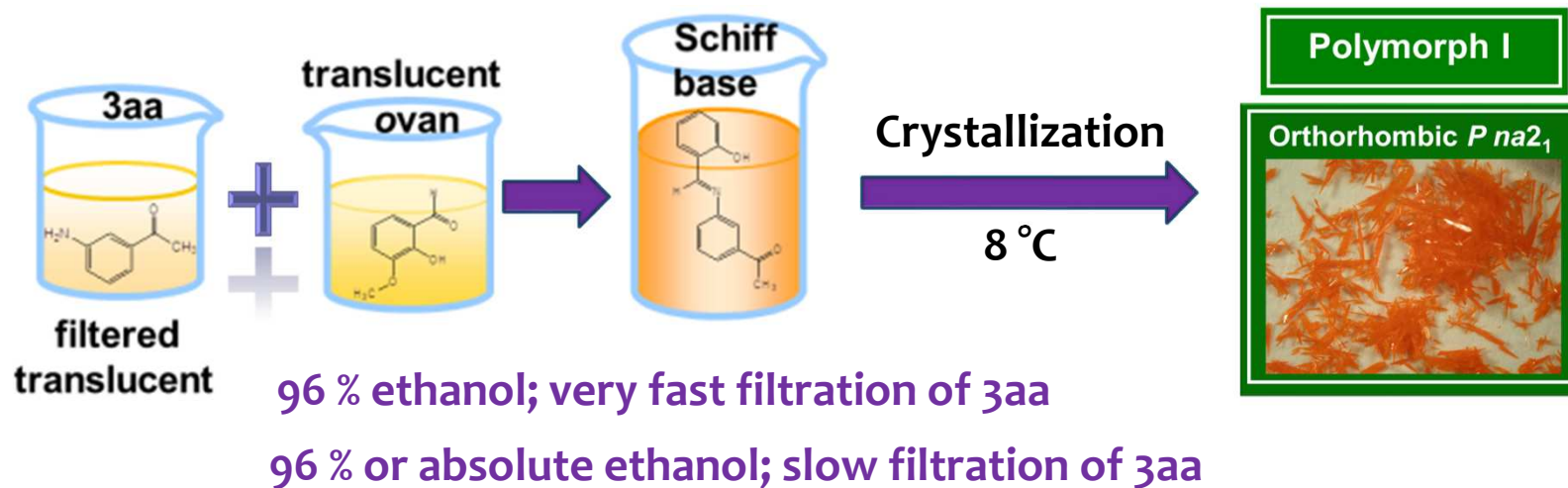
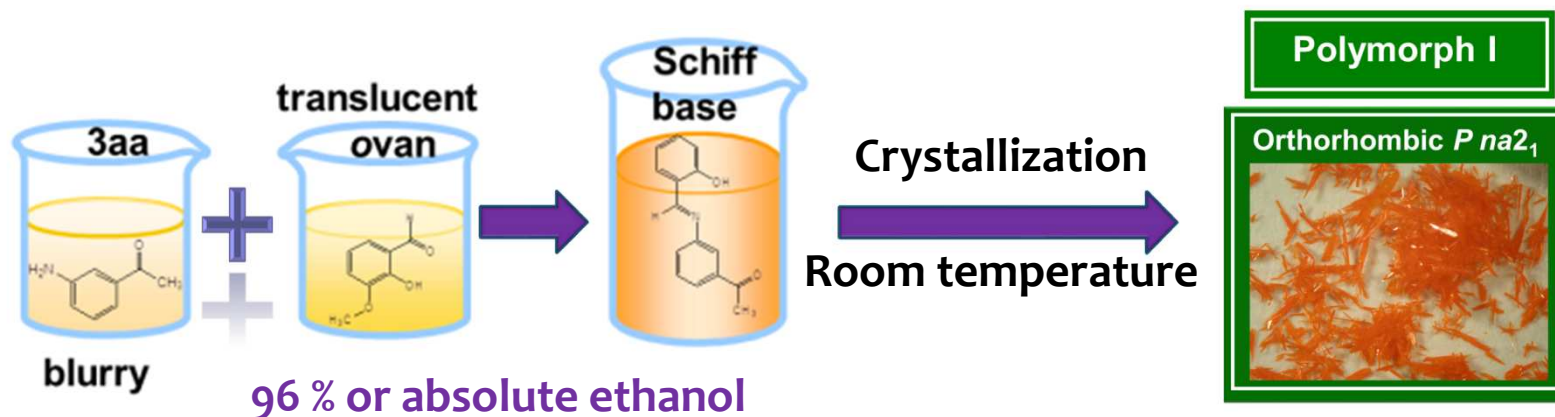
Schiff
base



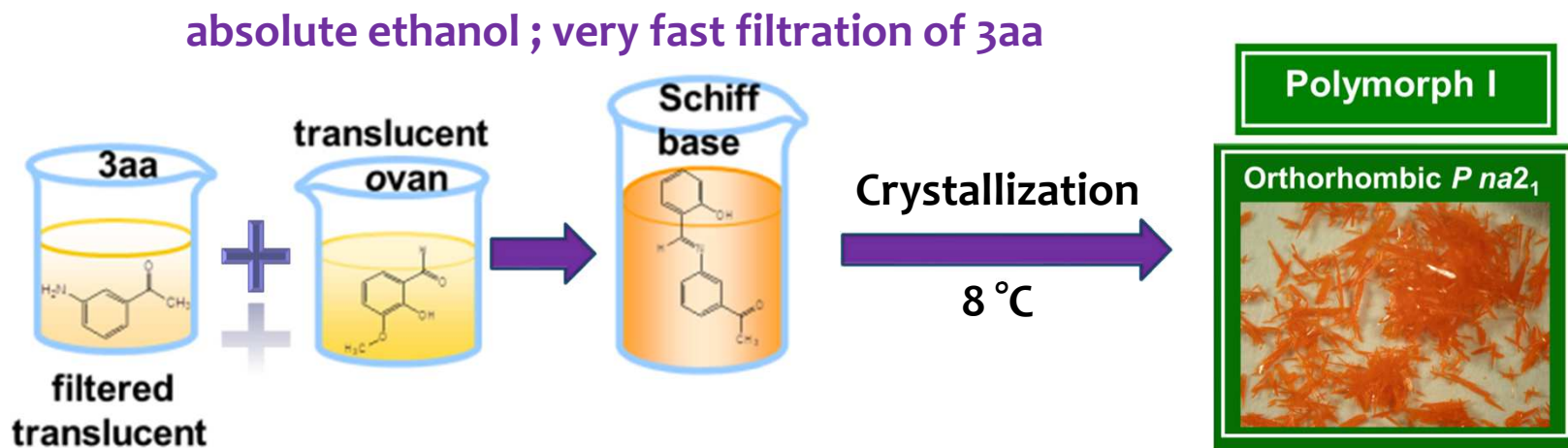
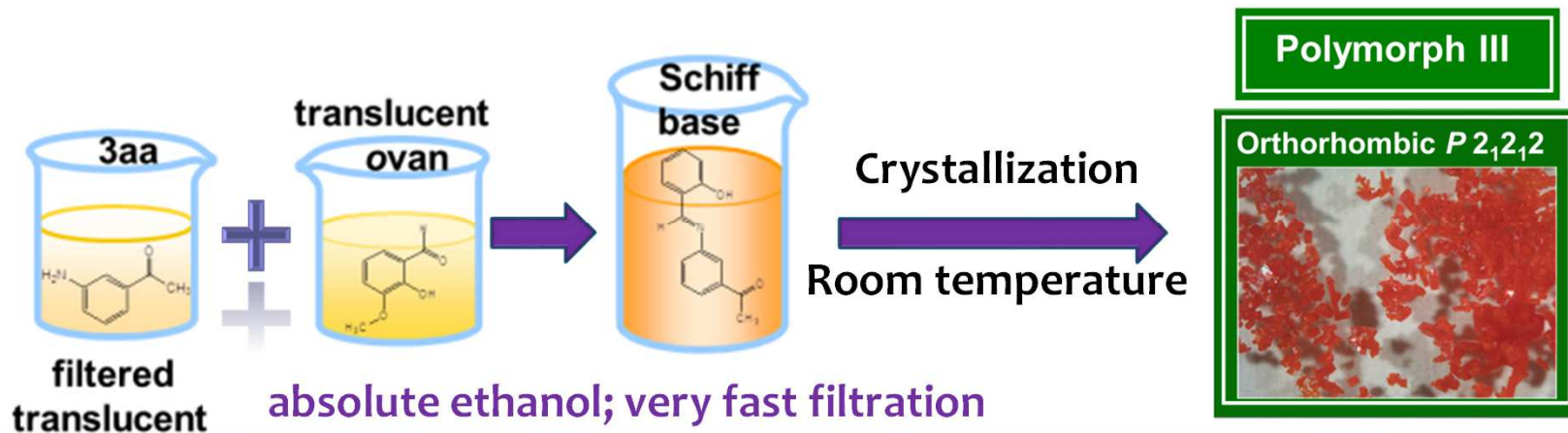
blurry



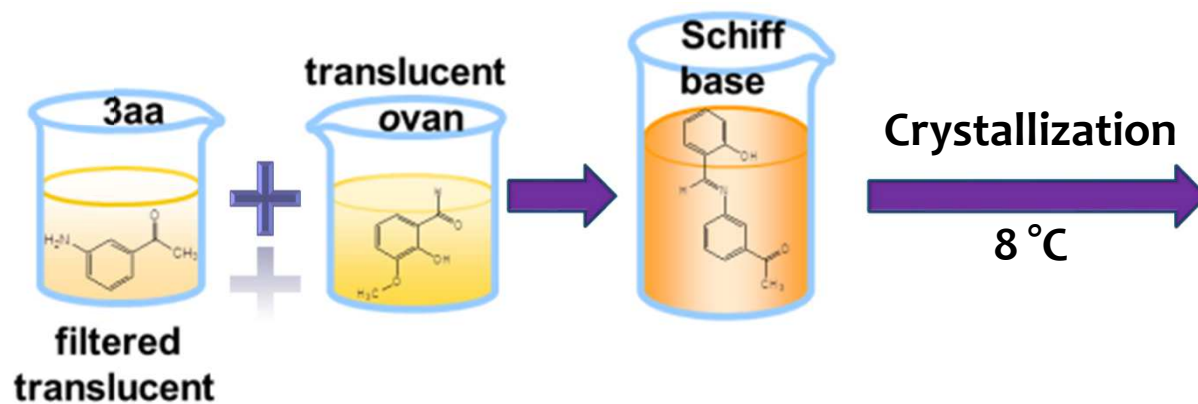
Ethanol-based synthesis



Ethanol-based synthesis



Ethanol-based synthesis

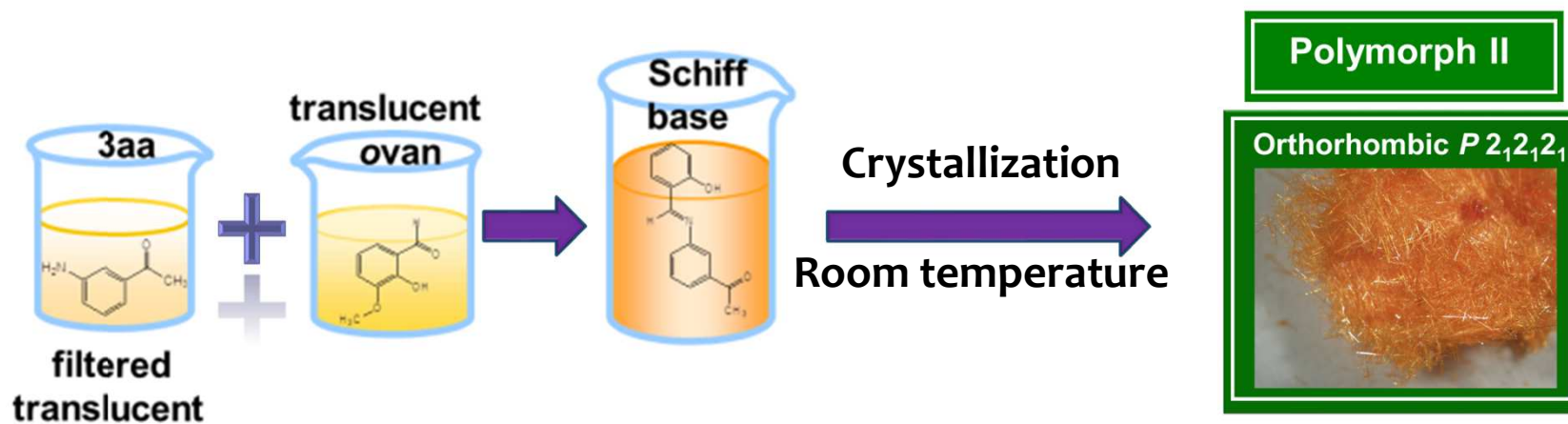


96 % ethanol; very fast filtration

Crystallization
8 °C

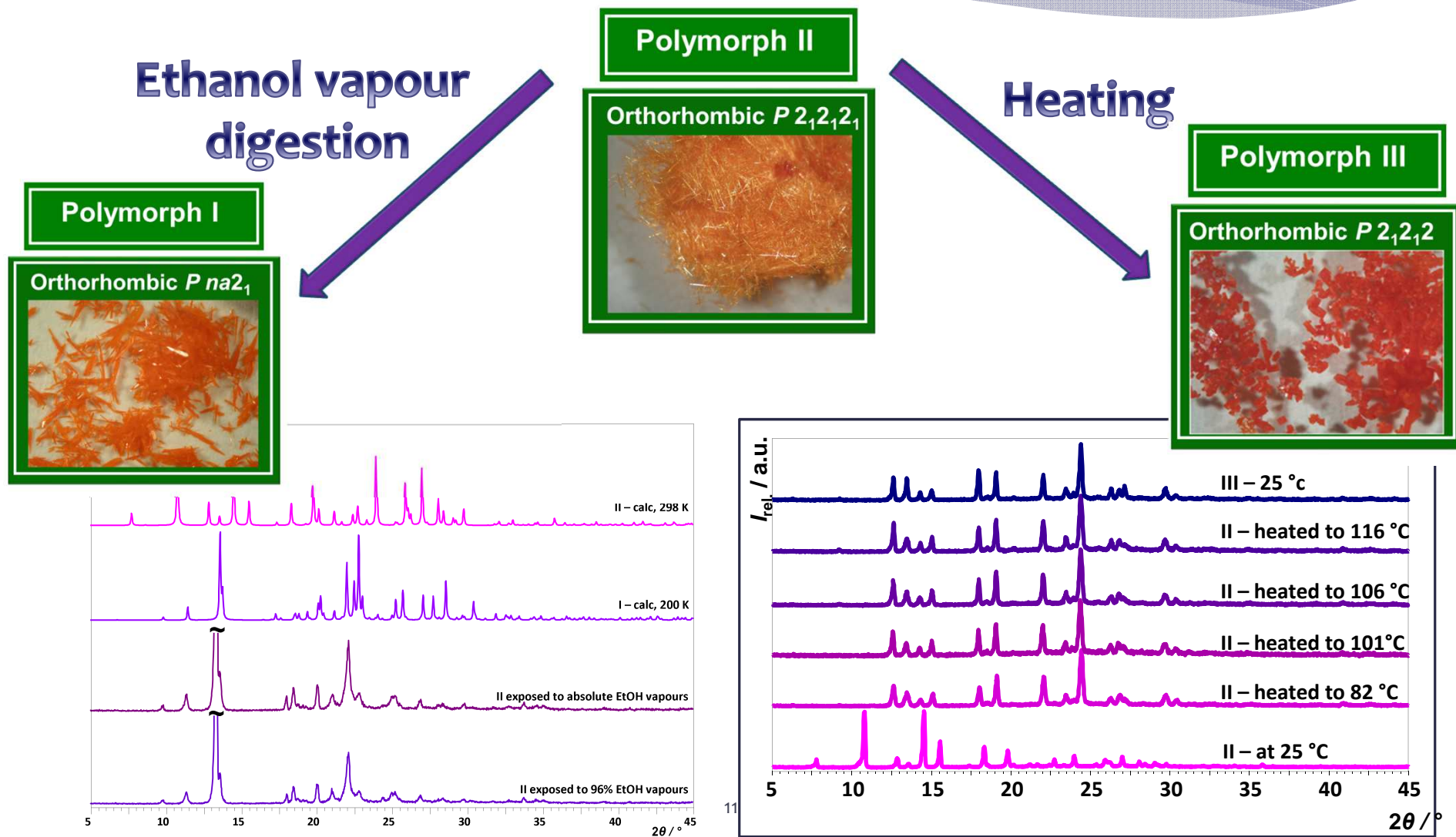


Ethanol-based synthesis



96 % or absolute ethanol; medium fast filtration

Ethanol-based synthesis



Conclusions...

...The experiment should always fail in the same manner!

If it doesn't you have forgot to write down the details...

