

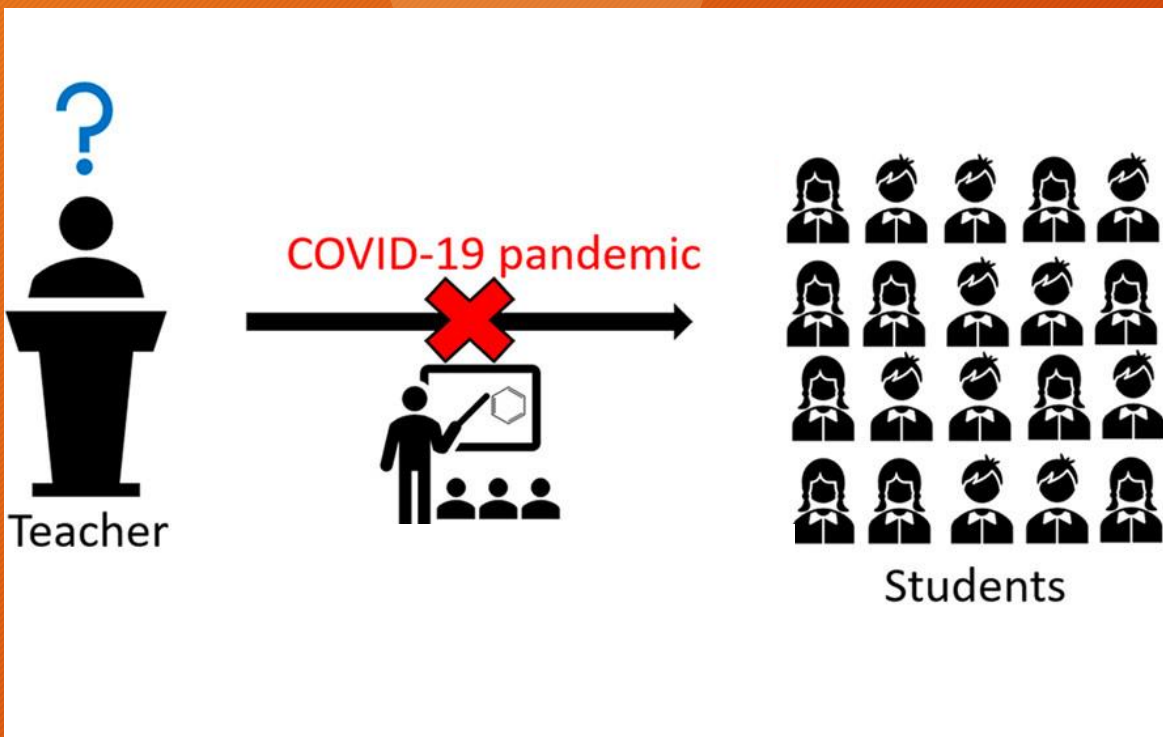


# Enseigner la chimie organique de façon asynchrone

Pierre-Edouard Danjou  
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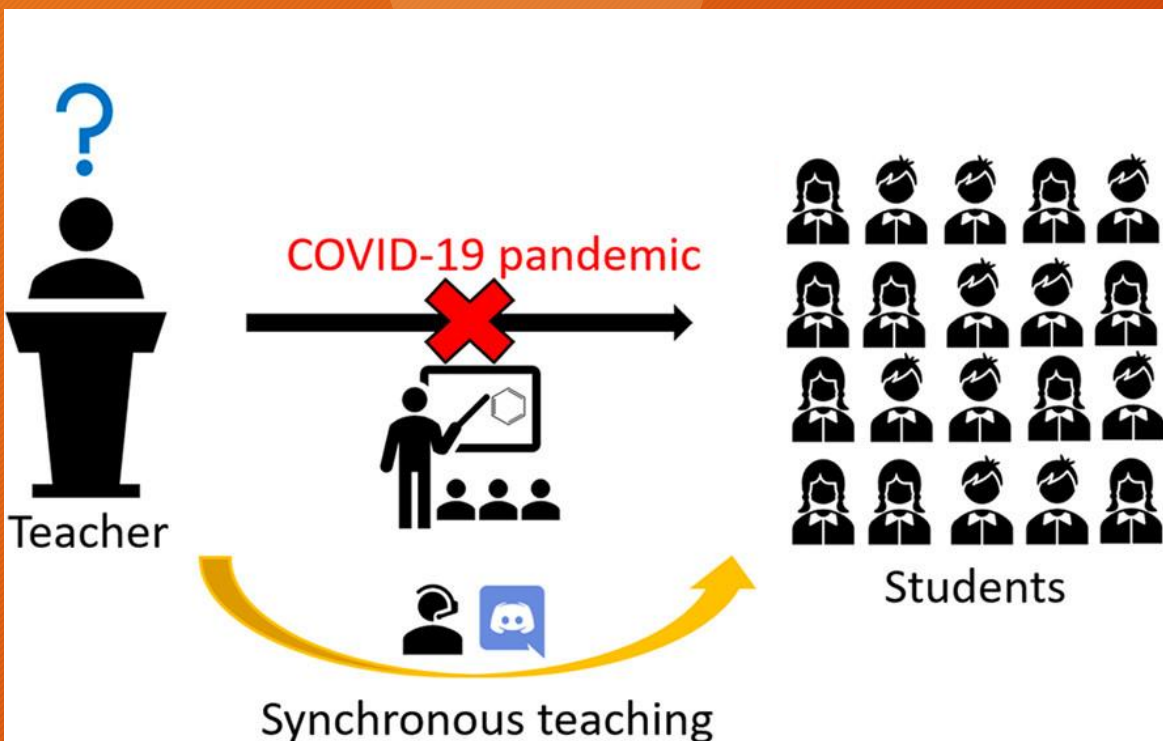
# Problématique : Comment enseigner la chimie organique à distance ?



- La chimie organique est une chimie vivante
- Elle s'écrit, se dessine...



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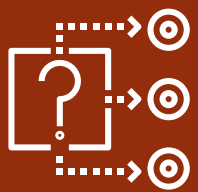
- La chimie organique est une chimie vivante
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➔ L'enseignement doit passer par la vidéo!

- Matériel informatique partagé
- Surcharge/Qualité des réseaux
- Faiblesse des ressources institutionnelles
- Charge familiale

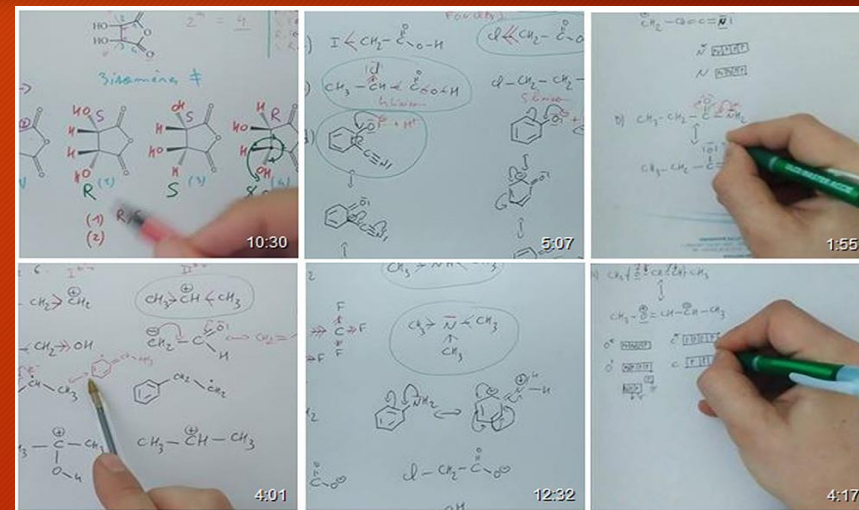




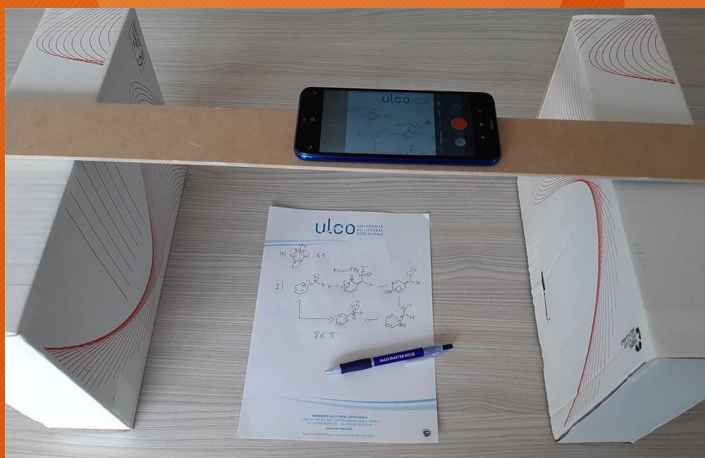


# L'enseignement asynchrone en vidéo : un début de solution?

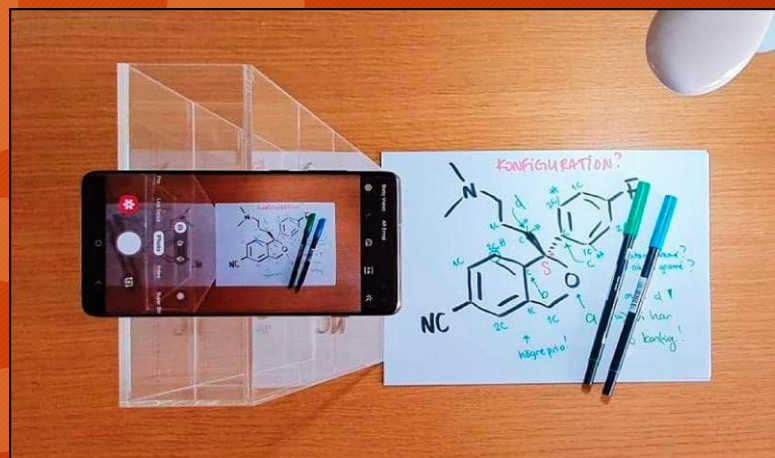
- Pas (moins) de problèmes de réseau
- Pas de contraintes de temps
- Visionnage multiple, 24/24
- Peu de contraintes matériels



- Utilisation d'un réseau social
  - Gratuit
  - Accessible sur mobile
  - Stockage illimité
  - Robuste !
  - Interactif ?



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J. Chem. Educ. 2020, 97, 9, 3217-3222



# Evaluation du dispositif : questionnaire

**Table 1. Distribution of Students' Responses to the Questionnaire (N = 20) in Percentages**

Entry	Statement	Totally Agree	Somewhat Agree	Neutral	Rather Disagree	Totally Disagree
1	The health crisis will have a negative impact on your studies.	25	40	25	0	10
2	Distance examinations cause inequalities between students.	55	10	20	10	5
3	The workload is greater during lockdown than in normal (classroom) conditions.	55	15	15	10	5
4	It is important to have a defined schedule with time slots for exercises.	50	40	10	0	0
5	The solutions of organic chemistry exercises were well-explained.	75	20	5	0	0
6	Using Facebook as a platform for exchange is a good idea.	50	45	5	0	0
7	The use of videos to explain exercises solutions is more suitable than real-time (synchronous) explanation via a platform like Discord.	60	35	5	0	0
8	The use of video requires more work than live exercises explanation via Discord.	0	15	10	45	30
9	The use of videos to explain exercises solutions is more suitable than face-to-face explanation in a classroom.	0	5	20	60	15
10	With videos, the teacher is no longer indispensable.	0	0	5	30	65
11	The 24/7 access to videos helped you during this learning period.	65	30	5	0	0
12	Being able to watch the videos several times is an asset for understanding.	80	20	0	0	0
13	During these organic chemistry tutorials, the students helped each other.	10	55	30	0	5
14	The use of videos for organic chemistry tutorials must continue beyond lockdown.	40	35	15	5	5





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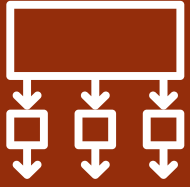
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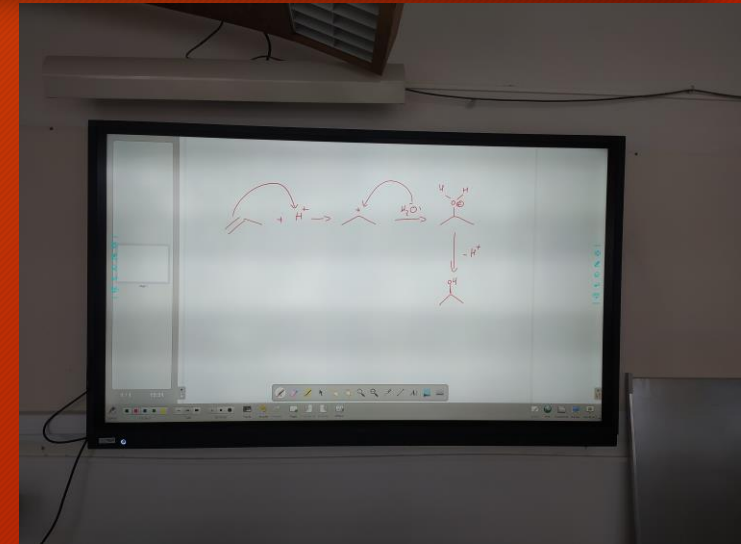
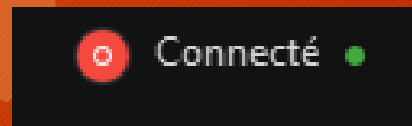
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# Et après?

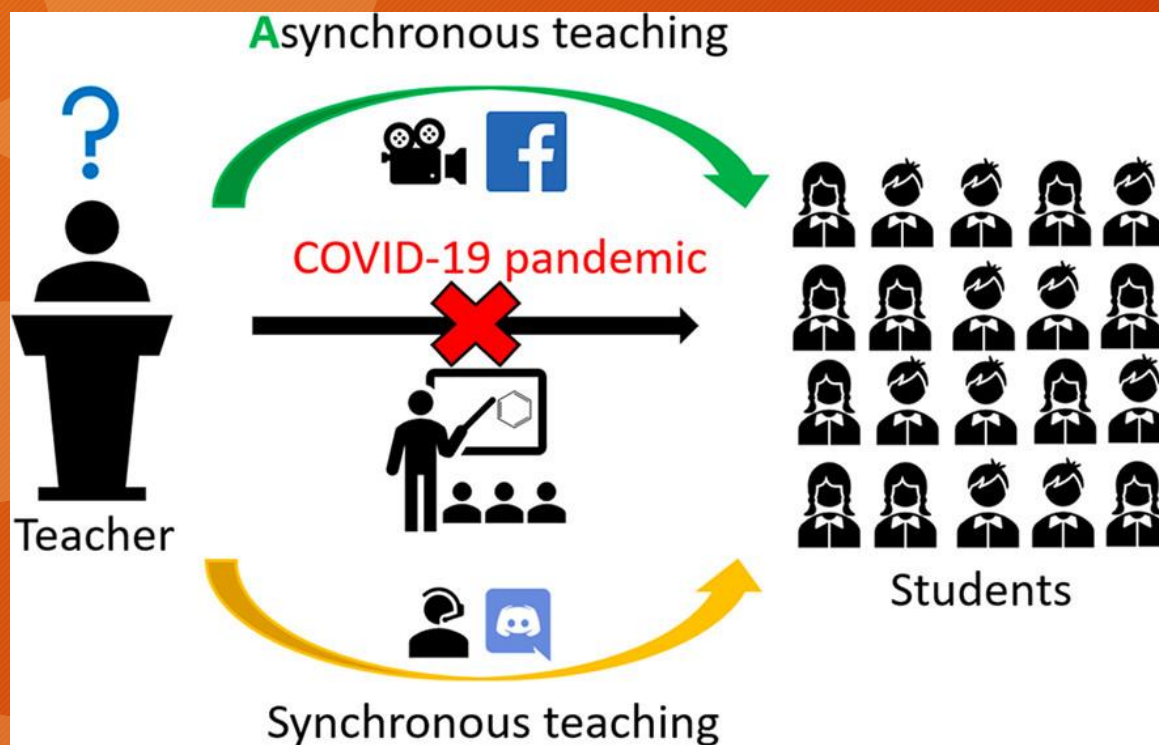
- Les étudiants sont quasi-unanimes:
  - Il faut des enseignants (ouf!)
  - Revoir un cours/TD plusieurs fois est utile à la compréhension
  - Le modèle de vidéo doit perdurer après le confinement

- Investissements suite à la crise sanitaire





# Merci pour votre attention



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