



Co-funded by the
Erasmus+ Programme
of the European Union

Students Workshop for Medical education via innovative e-Technology

**MediTec
Aqaba 2
2021**

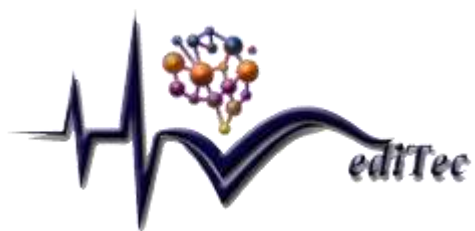
ediTec



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MediTec Project Number: 585980-EPP- 1-2017- 1-DE- CBHE-JP





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Training for Medical Education via Innovative e-
Technology

585980-EPP-1-2017-1-DE-CBHE-JP

Final Conference

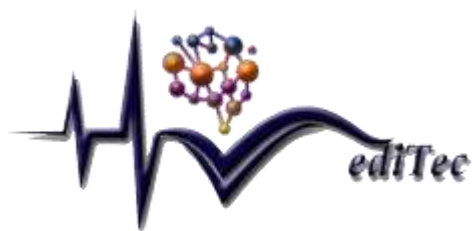
Why do we need MediTec?

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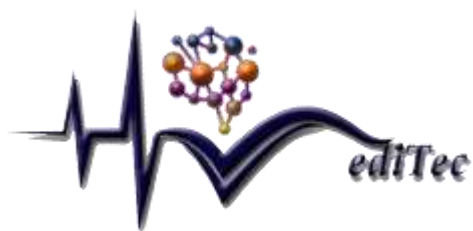
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**We will have demonstration
on the role of innovative e-
technology in the medical field**



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1. Transforming the Future of Medicine [\(1\) Virtual Reality: Transforming the Future of Medicine](#)

[\(2018\) - YouTube](#)

2. Surgery of Gastric Cancer. [\(1\) \[VR\] Live Surgery of Gastric Cancer at SNUBH - YouTube](#)

3. Augmented Reality in Health and Medicine. [\(1\) Augmented Reality in Health and](#)

[Medicine | Dr Daniel Kraft | AR in Action - YouTube](#)

4. 3D Biology labs online. [\(1\) 3D virtual microscope lab demo | Oregon State Ecampus - YouTube](#)

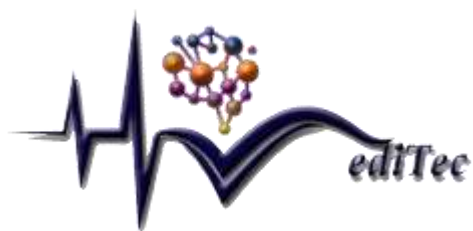
5. Exploring Coronavirus Molecules in VR. [\(1\) COVID-19 in VR: Exploring Coronavirus Molecules in](#)

[VR with Dr. Kuiper - YouTube](#)



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6. Basic science education:

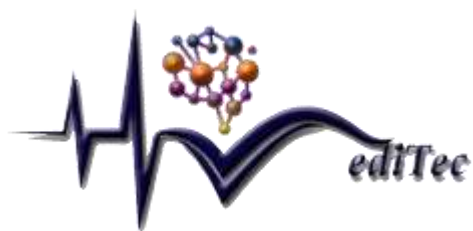
- A. (DNA animations) [\(1\) DNA animation \(2002-2014\) by Drew Berry and Etsuko Uno wehi.tv #ScienceArt - YouTube](#)
- B. (Molecular Visualization). [\(1\) VR Molecular Dynamics Visualization - YouTube](#)
- C. (Molecular Motor Proteins) [\(1\) Molecular Visualization in Virtual Reality - YouTube](#)
- D. (The Molecular Machines that Create Your Flesh & Blood). [\(1\) Ron Vale \(UCSF,](#)

[HHMI\) 1: Molecular Motor Proteins - YouTube](#)



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7. Clinical Science:

A. (Basics about burns). [\(1\) The Science of Healing: Virtual Reality - Medicine's New Frontier - YouTube](#)

B. (Self-Apposing stent). [\(1\) Virtual Reality Case - Ostial Circumflex with a Self-Apposing stent - YouTube](#)



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Labster Demo

- What is labster:
<https://www.youtube.com/watch?v=UEW4JeVwvps>
- On-line access
<https://wp.labster.com/faculty-resources/?k=LMSregionGLOBAL>
- Performing certain experiments:
 - **TLC.**
 - **Gel electrophoresis.**
 - **Anatomy selections.**

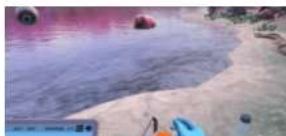
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[Federal funding for virtual labs and professional development.](#)

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Acids and Bases (Principles): Avoid falling in a lake of acid!



Acids and Bases: Acidity and alkalinity in everyday substances



Action Potential Lab: Experiment with a squid neuron



Advanced Acids and Bases



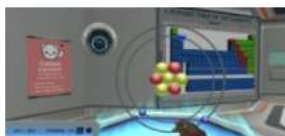
Animal Genetics



Antibodies: Why are some blood types incompatible?



Aseptic Technique: Culture your sample without contamination



Atomic Structure (Principles): Atoms and isotopes



Atomic Structure (Principles): Bohr and Quantum models

