# **Multimedia Resources in Bioscience Education Dr Viv Rolfe De Montfort University**

#### **Introduction & Aim**

Computer-assisted-learning (CAL) has been used in education for many years, from early CAL Packages designed in Macromedia Authorware, to Flash animations and recently video and audio. But, are these resources effective educational aids? The aim of this project is to complete a systematic review asking "are multimedia resources effective in bioscience education?"

## **Results & Outputs Cont...**

- 5 studies have replaced lectures with multimedia resources
- 3 replaced practicals with eLearning
- 3 placed entire modules on-line using a VLE

# **Early Conclusions**

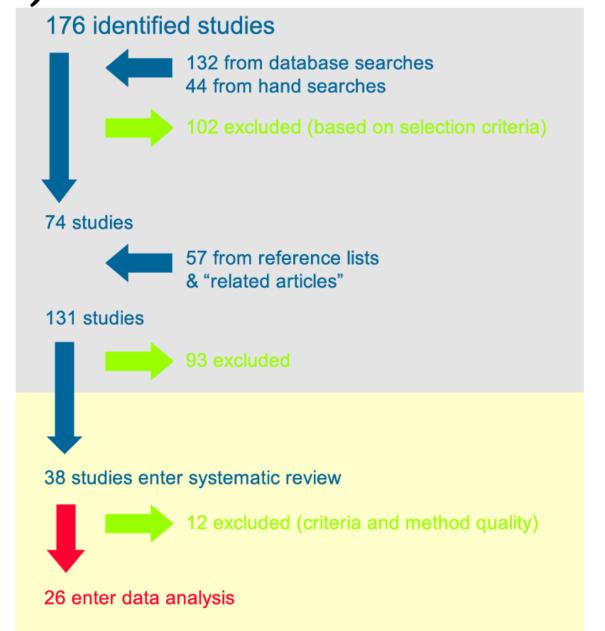
One the whole, research studies identified were of very poor quality.

#### Methods

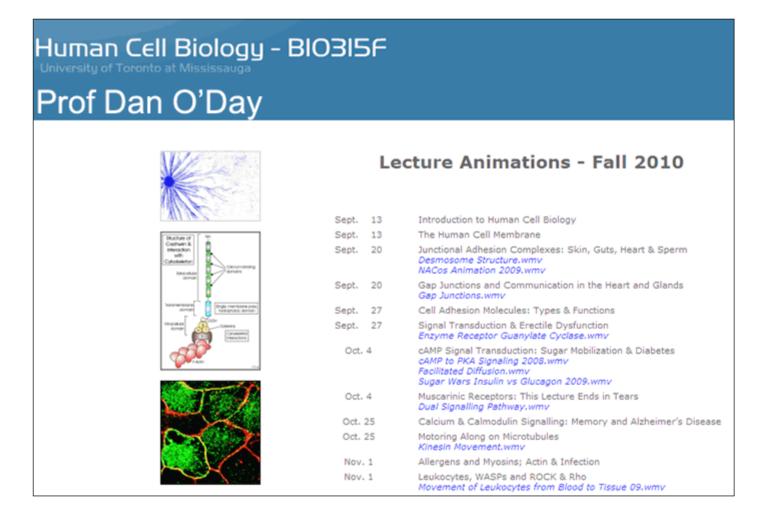
Iterative search strategy, robust search strategy, identification and exclusion of publications, contacts with experts and authors, data extraction, data analysis.

## **Results & Outputs**

Currently awaiting missing data from authors. From the initial searches, 26 studies are suitable for data analysis (below).



Of 176 studies identified, only a handful of resources are freely available on the web.



www.utm.utoronto.ca/~w3bio315/animations.htm

No studies have evaluated the use of video, podcast or new approaches such as Articulate Presenter.

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