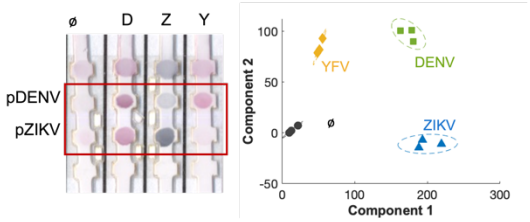
UNIVERSITÀ DEGLI STUDI DI BRESCIA

DIPARTIMENTO DI MEDICINA MOLECOLARE E TRASLAZIONALE
DOTTORATO IN PRECISION MEDICINE
CORSO DI LAUREA IN BIOTECNOLOGIE MEDICHE



Kimberly Hamad-Schifferli

Professor of Engineering
University of Massachusetts Boston
https://blogs.umb.edu/kimhamad/

Visiting Professor
Dipartimento di Medicina Molecolare e Traslazionale

CICLO DI 8 LEZIONI

Nanomaterials for low-cost sensors in medicine and the environment

The topics covered will focus on the interface of nanomaterials with biomolecules and biological environments, bioconjugation of nanoparticles, and biophysical characterization of nano-bio conjugates. PhD students will also be trained on the biomedical applications of nanomaterials for infectious diseases, pathogen detection, and food safety. The activity will also include/encourage personal meetings with students on the topics covered and on possible future scientific collaborations/visits/exchanges at the teacher's laboratory.

1.Nanomaterials for low-cost sensors in medicine and the environment
Wed April 24th 16:00-18:00, Aula B2

2. Rapid diagnostics for infectious diseases
Thu May 2nd 16:00-18:00, Aula B3

3. Enhancing sensitivity of diagnostics with nanotechnology
Thu May 9th 16:00-18:00, Aula B2

4. Strategies for diagnostic design: what goes into making a diagnostic?
Thu May 16th 16:00-18:00, Aula B2

5. Synthetic biology sensors
Thu May 23rd 16:00-18:00, Aula B3

6. Applications: food safety
Thu May 30rd 16:00-18:00, Aula B3

7. Subverting traditional design paradigms in diagnostics
Thu June 6th 16:00-18:00, Aula B3

8. Looking to the future: addressing new challenges
Thu June 13th 16:00-18:00, Aula B3

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A partire da mercoledì 24 aprile, la Prof. Kimberly Hamad-Schifferli - *Professor of Engineering* presso *University of Massachusetts Boston*) e Visiting Professor in questo semestre presso il Dip. di Medicina Molecolare e Traslazionale del nostro ateneo – terrà un ciclo di seminari principalmente indirizzato agli studenti di dottorato, ma aperto a tutti gli studenti magistrali e post-doc interessati, intorno al tema “Nanomaterials for low-cost sensors in medicine and the environment”. L'attività includerà anche/incoraggerà incontri personali con gli studenti sugli argomenti trattati e su possibili future collaborazioni scientifiche/visite/scambi presso il laboratorio della docente https://blogs.umb.edu/kimhamad.