

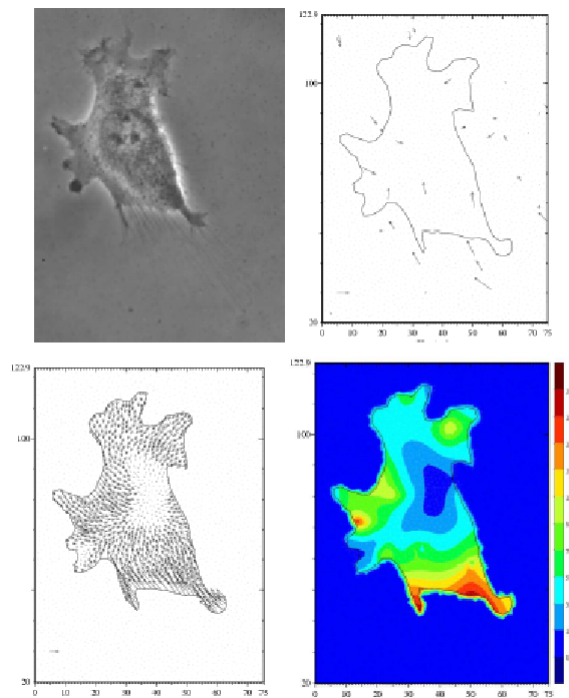
UNIVERSITÀ CATTOLICA DEL S. CUORE  
Dipartimento di Matematica e Fisica “Niccolò Tartaglia”



12 hours with Mathematical Physics

## CELL MIGRATION

From continuum mechanics to individual-based models



Series of lectures

Luigi PREZIOSI - Politecnico di Torino

17-18/04/2013

Via dei Musei, 41 – 25121 BRESCIA (Italy)

Information: [a.marzocchi@dmf.unicatt.it](mailto:a.marzocchi@dmf.unicatt.it), [a.musesti@dmf.unicatt.it](mailto:a.musesti@dmf.unicatt.it)

Web page: [www.dmf.unicatt.it/cellmigration](http://www.dmf.unicatt.it/cellmigration)

## INFORMATION

The aim of the Course is to bring together people with different scientific backgrounds to learn and discuss an advanced subject in Mathematical Physics. The Course consists of 12 lectures of approximately 1 hour each; the style of the meetings is very informal.

### Topics

- Biological mechanisms underlying cell motions
- Cell motion in fiber networks: a kinetic model
- Cell-matrix interactions in multiphase models
- Cell migration by cellular Potts models
- Modelling cell motion in microchannels
- Modelling intravasation processes

### Program

The lectures are organized as follows (tentative):

- Wednesday April 17:
  - 10.45am ☕ beginning
  - 11.00am–13.00pm
  - Lunch
  - 2.30pm–6.30pm (with floating ☕ break)
  - Social Dinner
- Thursday April 18:
  - 9am–12.00 (with floating ☕ break)
  - Lunch
  - 2.00pm–5.00pm (with floating ☕ break)

### Application

Those who are interested are kindly requested to write an e-mail to

[a.marzocchi@dmf.unicatt.it](mailto:a.marzocchi@dmf.unicatt.it) and/or [a.musesti@dmf.unicatt.it](mailto:a.musesti@dmf.unicatt.it),

in order to help us find an appropriate lecture room. No participation fee is required.

### Accommodation

Participants should make their own arrangements for accommodation. We suggest

Centro Pastorale “Paolo VI”

Via Gezio Calini, 30 - 25121 BRESCIA

Tel. +39 030 3773511

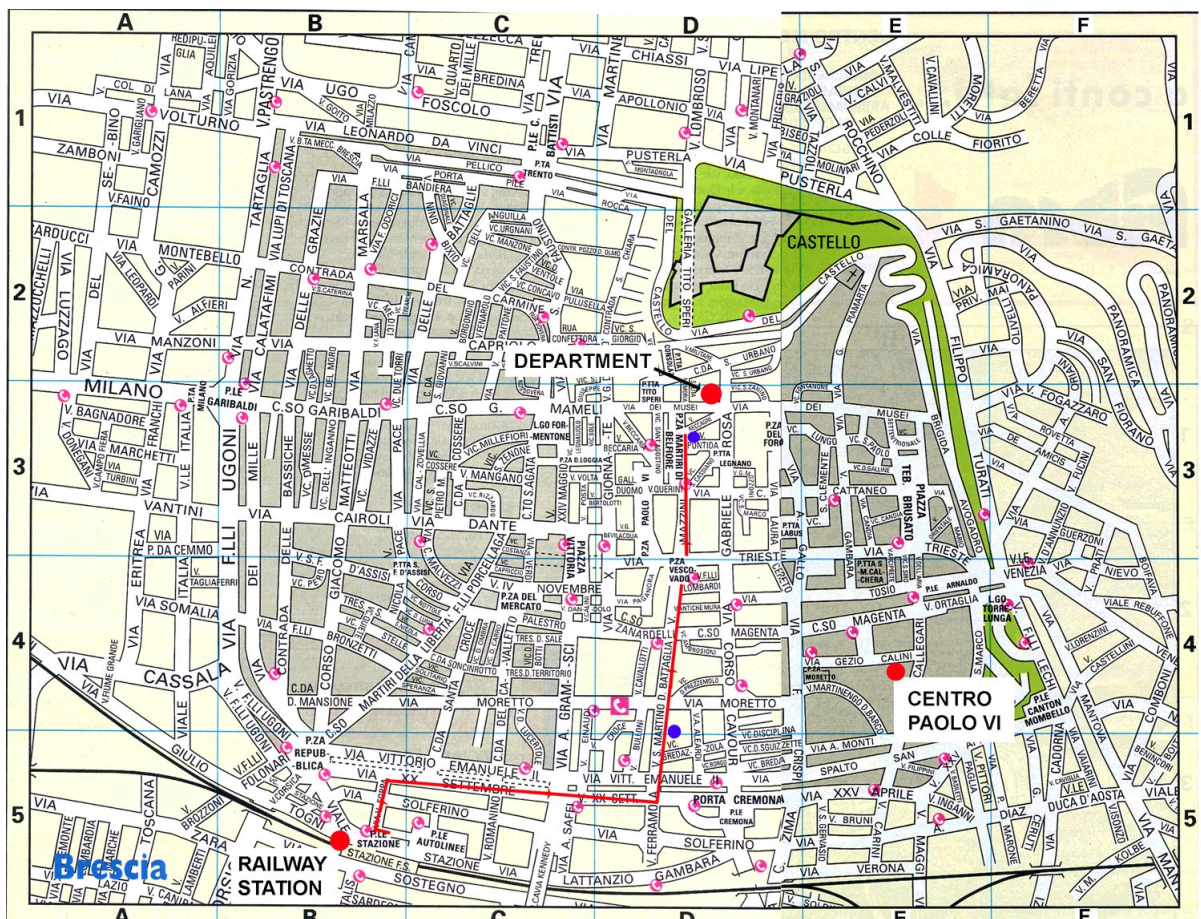
<http://www.centropastoralepaolovi.it>

## Arrival

- *to get to the Department:* from the railway station, bus line n. 1 (direction “Mompiano”) or n. 2 (direction “Pendolina”) right in front of the station (tickets available at the neighbouring tobacconist’s); get off at “Belfiore”, then walk following the plan below (approximately 1 min.). Alternatively, underground line direction “Prealpino”, get off at “Vittoria” (Piazza Vittoria, C3–C4 in the plan below) and walk approximately 5 min. Same tickets as for the bus lines.
- *to get to Centro Paolo VI:* from the railway station, bus line n. 1 (direction “Mompiano”) or n. 2 (direction “Pendolina”) right in front of the station (tickets available at the neighbouring tobacconist’s); get off at “San Martino” and walk following the plan below (approximately 10 min.)

For information about bus lines, see also

<http://www.bresciamobilita.it/category/percorso-utenti/autobus/>



Bus lines in red; bus stops in blue.