

DIN - Life Course Research



Biomedical curriculum

AIM: to study biomedical aspects related to the critical ages of life from birth to death, developing along a path from childhood, adolescence, and adult and senile life.

Three areas of possible research:

- biological mechanisms
- risk and preventive factors
- clinical and prognostic aspects

including pharmacological aspects and organizational management aspects.



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Three courses:

- Cellular and Molecular Biology
- Biomedical research methodology
- Pathophysiology of ageing

Two different lessons' approaches:

- Basic topics: in presence lessons (from 13th to 24th of November)
- Advanced topics: online lessons (every Friday morning 9am-1pm)



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Basic courses

- *Cellular and Molecular Biology*
 - Molecular Biology (Andrea Graziani)
 - Genetics (Giuseppe Passarino)
- *Biomedical research methodology*
 - Medical statistics (Ersilia Lucenteforte)
 - Epidemiology (Fulvio Ricceri)
- *Pathophysiology of ageing*
 - Pediatrics (Carlo Dani)
 - Geriatrics (Stefano Fumagalli, Andrea Ungar)



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Example of advanced courses

- Pathophysiology of ageing – *Innovative approaches for frailty prevention in community dwelling older adults (15/12/2023, Maddalena Illario)*
- Cellular and Molecular Biology – *Ageing clocks: theoretical foundation, practical applications and industrial exploitation (22/12/2023, Alessandro Cellerino)*
- Biomedical research methodology – *Overview of special study designs in epidemiology (09/02/2024, Carlotta Sacerdote & Fulvio Ricceri)*



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Evaluations

- In each basic course a final exam is organized
- Attendance is mandatory to obtain the qualification for the advanced courses



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Course		Week schedule					Friday
		Monday	Tuesday	Wednesday	Thursday		
13-17 November	morning	Cellular biology [1] - Room: Ex biblioteca Dep. NEUROFARBA, Viale Pieraccini 6	Cellular biology [2] - Room: aula 217 plesso Didattico Viale Morgagni 40	Cellular biology [3] - Room: Ex biblioteca Dep. NEUROFARBA, Viale Pieraccini 6	Geriatrics [2]: Room: Aula A Dep. NEUROFARBA, Viale Pieraccini 6		
	afternoon	Geriatrics [1] - Room: Ex biblioteca Dep. NEUROFARBA, Viale Pieraccini 6	Medical statistics [1] - Room: aula 217 plesso Didattico Viale Morgagni 40	Medical statistics [2] - Room: Ex biblioteca Dep. NEUROFARBA, Viale Pieraccini 6	Medical statistics [3] - Room: Ex biblioteca Dep. NEUROFARBA, Viale Pieraccini 6		
20-24 November	morning	Pediatrics [1] - Room: Ex biblioteca Dep. NEUROFARBA, Viale Pieraccini 6	Molecular Genetics [1] - Room: aula 217 plesso Didattico Viale Morgagni 40	Molecular Genetics [2] - Room: Ex biblioteca Dep. NEUROFARBA, Viale Pieraccini 6	Molecular Genetics [3] - Room: Aula A Dep. NEUROFARBA, Viale Pieraccini 6	Pediatrics [3] - Room: Aula A Dep. NEUROFARBA, Viale Pieraccini 6	
	afternoon	Geriatrics [3] - Room: Ex biblioteca Dep. NEUROFARBA, Viale Pieraccini 6	Epidemiology [1] - Room: aula 217 plesso Didattico Viale Morgagni 40	Epidemiology [2] - Room: Ex biblioteca Dep. NEUROFARBA, Viale Pieraccini 6	Pediatrics [2] - Room: Aula A Dep. NEUROFARBA, Viale Pieraccini 6	Epidemiology [3] - Room: Aula A Dep. NEUROFARBA, Viale Pieraccini 6	



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Winter school & Intermediate evaluation (February-March)

- **Week 15** (26-29/2/2024): Students' project presentation & discussion
- **Week 18** (18-22/3/2024): Winter school on **Bibliographical research and Metanalysis** (Baccini)

→ **Trans-curricular events**



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Summer Schools & End of year evaluation (June-July)

- **Week 26** (3-7/6/2024): Summer School on **Causal Inference** (Mealli-Mattei)
- **Week 27** (24-28/6/2024): Summer School on **Academic Writing** (Cavrini)
- **Week 28** (1-4/7/2024): Students' presentation of **first results/research progress**

→ **Trans-curricular events**



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Weekly schedule for the 1st year (all curricula)

<https://www.phd-lcr.com/teaching-schedule/>

Syllabi of the courses (all curricula) → ***IN PROGRESS***

<https://www.phd-lcr.com/courses-2023-2024/>

