

Dermatogenetics: Mastering Hereditary and Mosaic Skin Disease

Residents Course | 07-09 October 2027 | Barcelona, Spain

Description

We will lead a 2.5 day residential course to introduce genetic concepts relevant to germline and mosaic conditions, and update on common clinical presentations and management. The course will be run by a small faculty of European experts, with clinical and research experience in genetics and mosaicism. A similar course has been run previously in 2024 with very positive feedback.

Course Objectives:

The proposed training programme for European Consultant Dermatologists and Residents will outline basic concepts in genetics. This will be followed by state-of-the-art clinical lectures on different types of germline and mosaic skin conditions. Attendees will be encouraged to bring clinical cases (consented photographs and clinical information), which will be used for case-based discussions in workshops, and to develop diagnostic skills, specifically in relation to:

- When to consider a genetic diagnosis in the clinic, and the clinical signs that should prompt this.
 - When to consider genetic testing, its advantages and limitations, and genetic counselling.
 - What are the clinical diagnostic challenges in mosaicism and how to overcome them.
 - How to manage patients with genetic skin diseases, and when to think of involvement of other tissues beyond the skin.
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Learning Objectives

This training program is designed for Residents to master the complexities of modern skin genetics. Through a blend of state-of-the-art lectures and case-based workshops, participants will bridge the gap between basic genetic theory and advanced clinical practice.

1. Master Genetic Fundamentals: Distinguish between germline and mosaic inheritance patterns and explain their clinical implications for patient care.
 2. Sharpen Diagnostic Recognition: Identify the clinical "red flags" and signs that should prompt a genetic diagnosis, specifically for complex conditions like ichthyosis, palmoplantar keratoderma, and inherited skin tumour syndromes.
 3. Navigate Testing & Counselling: Evaluate the advantages and limitations of genetic testing, identify appropriate resources, and gain the skills to interpret results and provide effective genetic counselling for families.
 4. Overcome Mosaic Challenges: Address the unique clinical diagnostic hurdles presented by mosaicism and develop practical strategies to overcome them in a clinical setting.
 5. Provide Holistic Management: Develop comprehensive management plans for genetic skin diseases, including recognizing when to screen for extracutaneous tissue involvement beyond the skin.
 6. Evaluate Future Frontiers: Critically assess the latest gene therapy breakthroughs and emerging clinical trials currently shaping the future of dermatology.
 7. Collaborate via Case-Based Learning: Refine diagnostic skills by collaborating with faculty and peers during interactive workshops, utilizing real-world clinical cases and consented.
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Faculty

Chairs: Neil Rajan

Speakers: Antonio Torrelo, Antoni Gostynski, Julia Clabbers, Juliette Mazereeuw-Hautier

Programme

Thursday, 07 October 2027

14:00 - 14:20	Welcome and Introductions Neil Rajan
14:20 - 15:00	An Introduction to Genetics Julia Clabbers and Antoni Gostynski
15:00 - 15:30	Interactive Session: Review of Pre-Course Quiz Responses Julia Clabbers
15:30 - 16:00	Coffee Break
16:00 - 17:30	Resident Cases: Short Presentations

Friday, 08 October 2027

09:00 - 09:45	An Introduction to Mosaicism: Mosaic Disorders and the Skin Antonio Torrelo
09:45 - 10:00	Relevant Resident Case
10:00 - 10:45	Genetic Transmission: Germline/Mosaic Conditions & Family Planning Antoni Gostynski
11:00 - 12:00	Epidermal Differentiation Disorders (Ichthyosis and Palmoplantar Keratoderma) Juliette Mazereeuw-Hautier
12:00 - 14:00	Lunch Break
14:00 - 14:30	Diagnostic Testing of Germline and Mosaic Diseases Neil Rajan
14:30 - 15:00	Faculty Cases: Exemplifying Diagnostic Strategies
15:00 - 15:30	Genetic Testing: Resources for the Clinician Julia Clabbers
15:30 - 16:00	Coffee Break
16:00 - 16:30	Epidermolysis Bullosa and Gene Therapy Antoni Gostynski
20:00	Networking Dinner with participants and faculty members

Saturday, 09 October 2027

09:00 - 09:45	Inherited Skin Tumour Syndromes Neil Rajan
09:45 - 10:00	Relevant Resident Case
10:00 - 10:45	Autoinflammatory Syndromes Antonio Torrelo
10:45 - 11:00	Relevant Resident Case
11:00 - 11:30	Coffee Break
11:30 - 12:15	Future perspectives and Clinical Trials for Genetic Skin Conditions Juliette Mazereeuw-Hautier
12:15 - 12:30	Relevant Resident Case
12:30 - 13:00	Interactive Quiz
13:00 - 13:30	Course Closing Comments and Prizes

The programme might be subject to changes.