

Centre for Research in Genodermatosis and Epidermolysis Bullosa: finding answers to rare skin diseases



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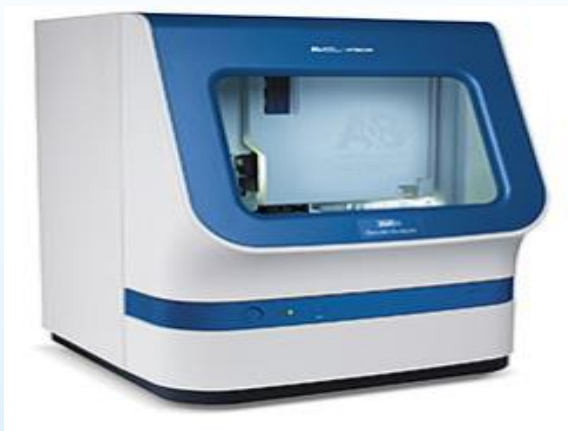
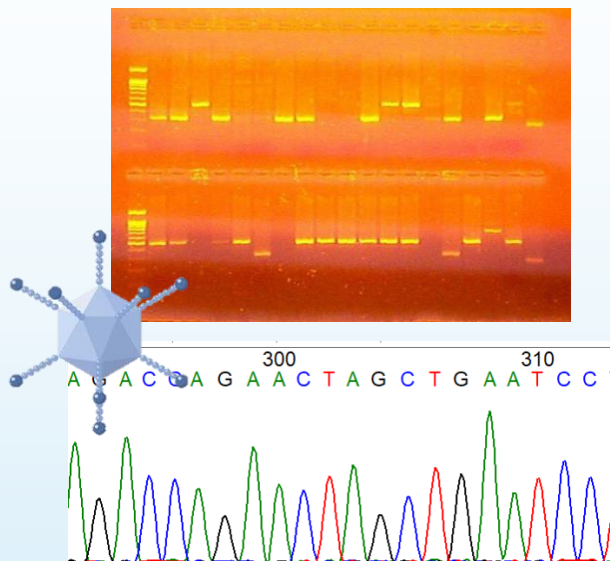


Genodermatosis

- Inherited skin disorders (>700)
- Most genodermatoses are rare diseases
- High clinical and genetic diversity (>500 genes)
- Symptomatic treatment
- Syndromic or non-syndromic



Our Journey - 2009

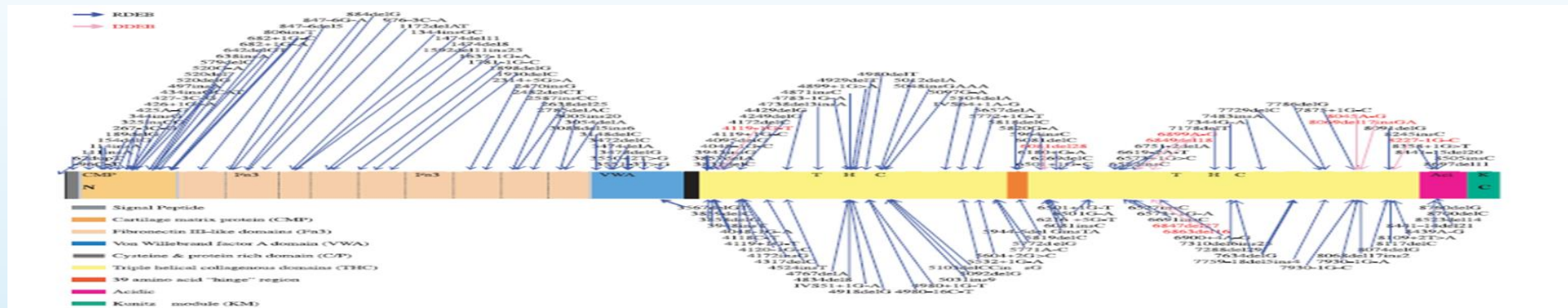


Dr. Graciela Manzur

- Dystrophic Epidermolysis Bullosa
- 2-12/1.000.000



Dystrophic Epidermolysis Bullosa COL7A1 Sanger Sequencing (118 exons)



Dang et al Exp Dermatol. 2008 Jul;17(7):553-68

CHALLENGE: variants not reported in databases

ACTION: describe the genetic background in our region



Our Journey - 2011

CHALLENGE: diagnosis of other genodermatosis

ACTION:

Research Project

- access to molecular diagnosis
- database mutational profiles of genodermatosis in our population



Our Journey - 2014

Foundation of the Centre for Research in Genodermatoses and Epidermolysis Bullosa, School of Medicine, University of Buenos Aires at the R. Gutiérrez Children's Hospital



Our Journey - 2015

CHALLENGE: prevent long distance travel

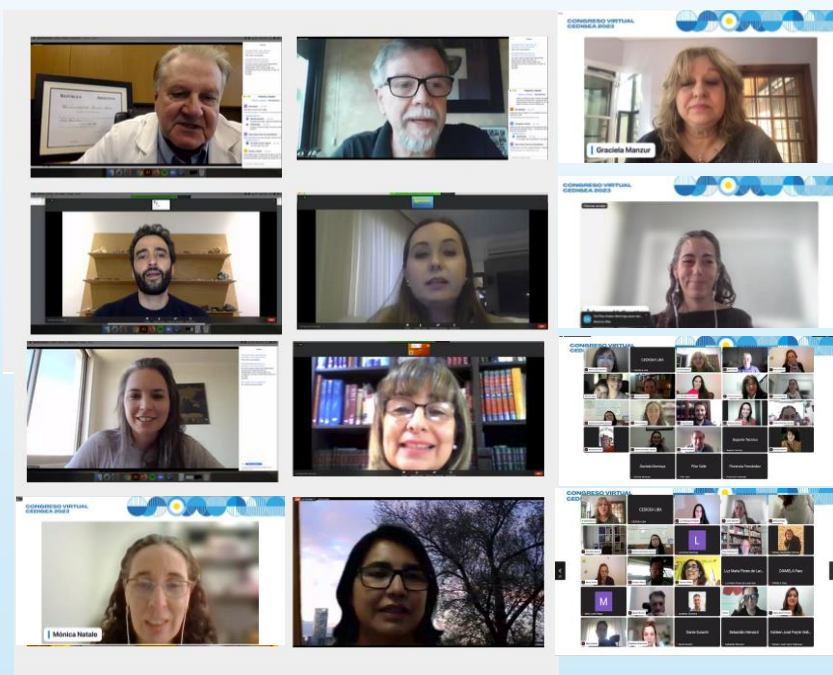
ACTION: Genodermatosis Network and meetings



Our Journey - 2020

CHALLENGE: shorten the diagnostic odyssey

ACTION: virtual conferences



2,500 participants,
40 countries,
50 national and
15 international speakers



Our Journey - 2020

CHALLENGE: adult patients

ACTION: CEDIGEA at Hospital de Clínicas, UBA



Dystrophic Epidermolysis Bullosa

Received: 26 April 2022 | Revised: 22 June 2022 | Accepted: 1 August 2022
DOI: 10.1002/ajmg.a.62957

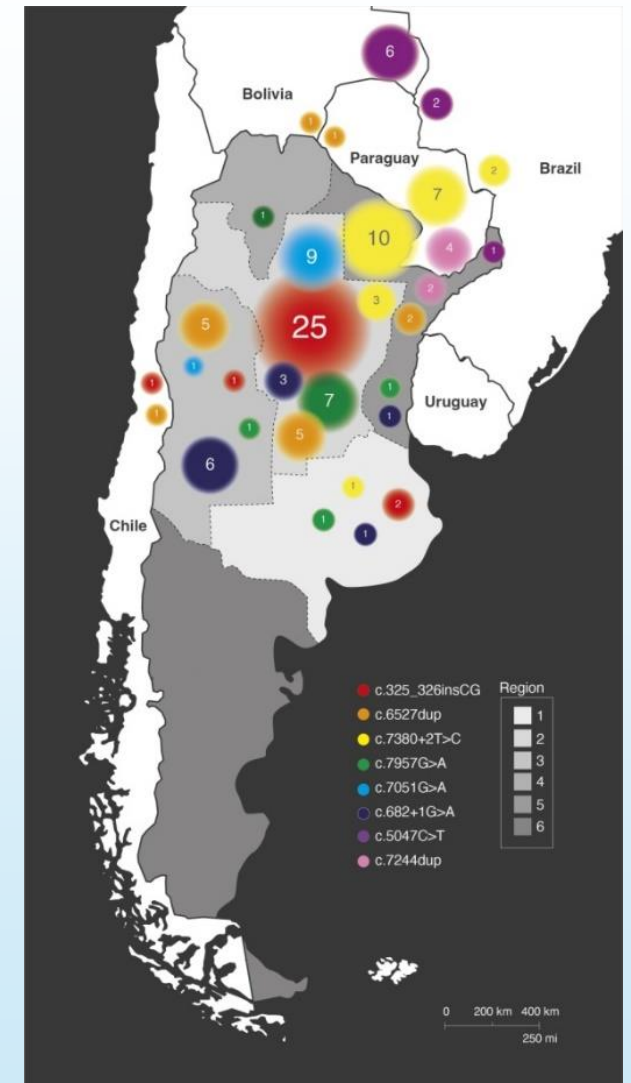
ORIGINAL ARTICLE

AMERICAN JOURNAL OF
medical genetics **A** WILEY

Analysis of *COL7A1* pathogenic variants in a large cohort of dystrophic epidermolysis bullosa patients from Argentina reveals a new genotype–phenotype correlation

Mónica Inés Natale¹ | Graciela Beatriz Manzur^{1,2,3} | Silvina Beatriz Lusso¹ |
Eliana Cella⁴ | María Elsa Giovo⁵ | Romina Andrada⁶ | Juana Goitia⁷ |
María Florencia Fernández⁸ | Patricia Silvia Della Giovanna⁹ |
María José Guillamondegui¹⁰ | Mariángeles Domínguez¹¹ | Olga Gutiérrez¹² |
Agustín Izquierdo¹³ | Heliana Hernández Herrera^{1,3} |
Luz Graciela Velázquez Perdomo^{1,3} | Alicia Susana Mistchenko¹ |
Laura Elena Valinotto^{1,14}

- 181 patients
- 95 variants, 36 novel
- New phenotype-genotype association



Epidermolysis Bullosa Kindler

DOI: 10.1111/pde.14076

CASE REPORT

Pediatric
Dermatology WILEY

Check for
updates

A novel pathogenic *FERMT1* variant in four families with Kindler syndrome in Argentina

Laura Elena Valinotto PhD^{1,2}  | Mónica Inés Natale MSc¹ | Silvina Beatriz Lusso MSc¹ |
Eliana Cella MD³ | Olga Gutiérrez MD⁴ | Fernando Sebastiani MD⁵ |
Graciela Beatriz Manzur MD^{1,6}



- 250 reported cases in the world
- *FERMT1*, novel c.450delG variant, homozygous



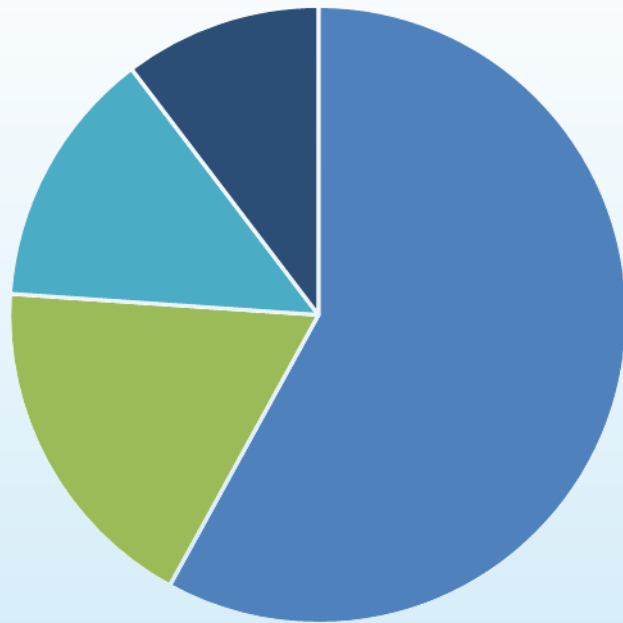
Epidermolysis Bullosa Simplex with mottled pigmentation COMING SOON...



- EBS 1-2/50.000
- **EBS-MP <100 reported cases**
- *KRT5* p.Pro25Leu 90-95%
- *KRT14* p.Met119Thr 2-5%
- **40 PATIENTS FROM 12 UNRELATED FAMILIES**
- DEBRA UK



2009-2023



- Epidermolysis Bullosa n=359
- Ectodermal Dysplasia n=112
- Ichthyosis n=84
- Other n=64

- **908 Patients, 619 molecular diagnosis (68%)**
- 43 different genodermatosis, 53 genes
- 20% of the patients have novel variants
- Genodermatosis network in Argentina, Paraguay and Bolivia.





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Thank you for your kind attention

