

# Centre of Research Excellence for the Study of Naevi



## Information for Chief and Associate Investigators – 1<sup>st</sup> September 2020

### Upcoming CRE Events

- The **2020 CRE Consumer Forum** is scheduled for Friday November 20<sup>th</sup> at the Translational Research Institute (TRI). This will be a hybrid forum and include a mixture of in-person and virtual presentations.
- Our virtual guest presenter for 2020 is Dr Veronica Rotemberg, a Dermatologist at Memorial Sloan Kettering Cancer Center in New York. Dr Rotemberg was heavily involved in the 2020 ISIC Challenge and is interested in the use of AI for diagnostic imaging. Further event details will be provided when available.

### CRE News and Progress

- Image collection for the **2020 ISIC Melanoma Classification Challenge** is now complete. The 2020 dataset includes over 30,000 images from 2056 patients across three continents. Of these, the Dermatology Research Centre contributed 26,466 images from three prospective longitudinal studies, including the CRE Core Study (Mind your Moles) and Program III. The 2020 dataset is the first dataset to provide contextual images of histopathologically confirmed melanomas compared with benign melanoma mimickers from the same patient. In future, the ISIC 2020 image data set will be used to develop and improve machine learning algorithms for melanoma detection and early diagnosis.
- The request to extend the duration of the CRE by 6 months to 31/05/2021 has been approved.
- Data collection for the **Core Study (Mind Your Moles Study)** finished in February 2020. A total of 1279 clinic visits were completed over the past three years. Of the 10 pilot participants and 196 main study participants enrolled at baseline, 9 pilot participants and 164 main study participants remained in the study at their final 36-month visit. Data analysis is currently underway for a number of publications, with the Mind Your Moles baseline paper close to completion. Please be in contact if you want to use the data for additional research questions.
- **Program I: Genetics and Epidemiology of Naevi** is focusing on analysis of the imaging and genomic data collected from the 1254 participants. There have been an additional 3 publications since the March CRE Update (Duffy et al, Twin Research and Human Genetics 2020; McMeniman et al, JEADV 2020; and Stark et al, JID 2020). Links to all CRE articles can be found on the [CRE Publications page](#).
- **Program II: Consumer Facilitated Naevi Monitoring** enrolled participants recruited as part of the CRE Core Study and commenced in late 2018. Participants in wave 1 (n=21) were asked to

monitor 2 clinician-identified lesions located on easy-to-see body areas and participants in wave 2 (n=13) were asked to monitor 2 clinician-identified lesions on difficult-to-see body areas. Data collection is complete and a consumer imaging checklist tool is currently being developed to score the quality of consumer images. The data from Program II will build on and complement the research already conducted within the complementary [NHMRC Partnership Project APP1113962](#) 'Redesigning skin cancer early detection and care' (2015-2018).

- **Program III: Molecular and Genetic Properties of Changing Naevi.** This program enrolled two groups of participants: a) advanced melanoma patients under immunotherapy; and b) people at high risk of melanoma due to a personal/family history of melanoma. All imaging appointments have been completed and data analysis is ongoing. Two manuscripts are currently in preparation for the case group: i) Survival analysis of advanced melanoma patients in a real world setting; and ii) Lesion change in advanced melanoma patients.
- **A Skin Cancer Prevention Website** is currently being developed. The website will be populated with personalised information on skin cancer risk and provide content which is tailored for individuals based on their phenotype and risk factors. Once completed, the website will be included as an outcome of the CRE and used as example of our work in a planned 2021 CRE application, paving the way for a new generation of skin cancer prevention. Once established we intend to develop into a personalised app at HealthHack in 2021.
- The July UQDI Seminar series featured a number of CRE related presentations.

#### 15 July 2020

- *Australian Centre of Excellence for Melanoma Imaging and Diagnosis (ACEMID) and first results of the Mind Your Moles Study* – Professor H. Peter Soyer and Dr Brigid Betz-Stablein

#### 22 July 2020

- *A 4-decade odyssey in scientific research: from genes to dermatology* – Associate Professor Rick Sturm
- *Mutational signatures in benign neoplasms of the skin* – Dr Mitchell Stark
- A complete list of **CRE Conference Presentations** can be found on the [CRE Presentations page](#).
- The **CRE Collaborative Authorship Guidelines**, along with a regularly updated **CRE Publications List (September 2020 version)**, are attached with this email for your reference. There is an 'Opt-In' approach for all CRE publications. The current Publication List (September 2020) includes all publications that are currently underway or proposed, and any CRE researchers who wish to contribute should contact the principal author of the relevant publication. Details of all CRE publications can be found on the [CRE Publications page](#).
- CRE Chief Investigators Professors Janda and Soyer will again coordinate publication of an article series in [Karger Dermatology](#). The 2020 series will include five research articles and one editorial with a focus on describing the skin ecosystem using 3D total body imaging.
- A CRE Naevus eBook is aimed to be put together by mid 2021. This eBook will feature a collection of all CRE Karger series publications from 2018 to 2020, accompanied by an overarching editorial and will represent the “white book” envisioned in our CRE application.
- **Skin and Skin Cancer Seminars.** The August 2020 *Skin and Skin Cancer Seminar Series*, hosted by the [Australian Skin and Skin Cancer Research Centre \(ASSC\)](#) in conjunction with Brisbane

Diamantina Health Partners (BDHP) Skin and Skin Cancer Theme was held via Zoom Video Conference on 12 August 2020. Presentations included:

- *Overdiagnosis in melanoma: preliminary analyses from the QSKIN study – Professor David Whiteman*
- *Uncovering germline risks for cutaneous melanoma – Associate Professor Matthew H. Law*

## General CRE Information

- **Please ensure that you acknowledge NHMRC funding of the CRE** in any future publications, presentations, advertising material, reports, public announcements etc. where it is relevant. Please use the statement below in publications:  
***“This research was conducted with the support of the Centre of Research Excellence for the Study of Naevi funded by the National Health and Medical Research Council (NHMRC; Grant ID: APP1099021)”***  
The CRE logo above can be used as appropriate (please contact Liz Payne if high resolution versions are required).  
The NHMRC grant identification number, **APP1099021**, must be used in any published material.
- The CRE website is <https://naevi.centre.uq.edu.au/>
- A CRE **Twitter** [@NaeviCRE](#) and **Facebook** page [Naevi CRE](#) have been established. Please follow these social media accounts.
- If you are on **Instagram**, please search and follow [@mindyourmoles](#).
- Professor Monika Janda is the CRE Co-ordinator - [m.janda@uq.edu.au](mailto:m.janda@uq.edu.au)
- Montana O’Hara is the research admin contact for the CRE – [m.ohara@uq.edu.au](mailto:m.ohara@uq.edu.au)
- **Please keep Montana informed of anything relevant to the CRE.** For example: things to promote on the CRE website, any CRE news stories, details of any publications or presentations associated with the CRE etc.