From Principles to Practice: Managing a Medical Research Data Repository



Nicholas Kurtansky

Self-introduction – Nicholas Kurtansky

- MSKCC Dermatology Service
- Sr. Data Analyst
- Statistics
- 6+ years ISIC Archive admin
- Skin cancer research





> J Invest Dermatol. 2022 Dec;142(12):3274-3281. doi: 10.1016/j.jid.2022.06.011. Epub 2022 Jul 14.

Analyzing the Spatial Randomness in the Distribution of Acquired Melanocytic Neoplasms

Emmanouil Chousakos ¹, Kivanc Kose ², Nicholas R Kurtansky ², Stephen W Dusza ²,

Allan C Halpern ² Ashfag A Marghooh ²

Distribution

> J Eur Acad Dermatol Venereol. 2022 Dec;36(12):2379-2387. doi: 10.1111/jdv.18470. Epub 2022 Aug 5.

The long-term evolution of melanocytic nevi among high-risk adults

O Reiter ^{1 2}, N R Kurtansky ¹, S T Musthaq ¹, S Dusza ¹, A C Halpern ¹, M A Marchetti ¹

Morphology and risk factors

> J Am Acad Dermatol. 2025 Mar;92(3):480-486. doi: 10.1016/j.jaad.2024.10.070. Epub 2024 Nov 9.

Differentiating seborrheic keratosis from melanoma among lesions exhibiting blue-white veil: A retrospective study

Isabella N Dana ¹, Nicholas R Kurtansky ², Larissa M Pastore ³, James R Xu ⁴, Zaeem H Nazir ⁵,

> J Eur Acad Dermatol Venereol. 2021 May;35(5):1111-1118. doi: 10.1111/jdv.17133. Epub 2021 Feb 23.

The differences in clinical and dermoscopic features between in situ and invasive nevus-associated melanomas and de novo melanomas

O Reiter ^{1 2}, N Kurtansky ¹, J K Nanda ¹, K J Busam ³, A Scope ^{1 2}, S Musthaq ¹,

> J Eur Acad Dermatol Venereol. 2021 Apr;35(4):892-899. doi: 10.1111/jdv.17035. Epub 2020 Dec 23.

Association between the dermoscopic morphology of peripheral globules and melanocytic lesion diagnosis

O Reiter ^{1 2}, E Chousakos ¹, N Kurtansky ¹, J K Nanda ¹, S W Dusza ¹, M A Marchetti ¹,

Dermoscopy

Epidemiology of melanoma

> J Invest Dermatol. 2022 Jul;142(7):1804-1811.e6. doi: 10.1016/j.jid.2021.12.003. Epub 2021 Dec 11.

An Epidemiologic Analysis of Melanoma Overdiagnosis in the United States, 1975-2017

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Nicholas R Kurtansky <sup>1</sup>, Stephen W Dusza <sup>1</sup>, Allan C Halpern <sup>1</sup>, Rebecca I Hartman <sup>2</sup>, Alan C Geller <sup>3</sup>, Ashfaq A Marghoob <sup>1</sup>, Veronica M Rotemberg <sup>1</sup>, Michael A Marchetti <sup>4</sup>
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> Br J Dermatol. 2022 Sep;187(3):430-432. doi: 10.1111/bjd.21251. Epub 2022 May 15.

Risk of nonacral cutaneous melanoma after the diagnosis of acral melanoma

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Nicholas R Kurtansky <sup>1</sup>, Rachel N Manci <sup>1</sup>, Danielle M Bello <sup>2</sup>, Adewole S Adamson <sup>3</sup>, Alexander N Shoushtari <sup>1</sup>, Mackenzie R Wehner <sup>4</sup>, Charlotte E Ariyan <sup>2</sup>, Ashfaq A Marghoob <sup>1</sup>,
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Primary diagnosis

> NPJ Digit Med. 2023 Jul 12;6(1):127. doi: 10.1038/s41746-023-00872-1.

Prospective validation of dermoscopy-based opensource artificial intelligence for melanoma diagnosis (PROVE-AI study)

Michael A Marchetti ^{# 1}, Emily A Cowen ¹, Nicholas R Kurtansky ¹, Jochen Weber ¹,
Megan Dauscher ¹, Jennifer DeFazio ¹, Liang Deng ¹, Stephen W Dusza ¹, Helen Haliasos ¹,
Allan C Halpern ¹, Sharif Hosein ¹, Zaeem H Nazir ¹, Ashfaq A Marghoob ¹, Elizabeth A Quigley ¹,

> Lancet Digit Health. 2022 May;4(5):e330-e339. doi: 10.1016/S2589-7500(22)00021-8.

Validation of artificial intelligence prediction models for skin cancer diagnosis using dermoscopy images: the 2019 International Skin Imaging Collaboration Grand Challenge

Marc Combalia ¹, Noel Codella ², Veronica Rotemberg ³, Cristina Carrera ¹, Stephen Dusza ⁴, David Gutman ⁵, Brian Helba ⁶, Harald Kittler ⁷, Nicholas R Kurtansky ⁴, Konstantinos Liopyris ⁸,

Clinical applications of risk-prediction models

> J Am Coll Surg. 2024 Jan 1;238(1):23-31. doi: 10.1097/XCS.0000000000000886. Epub 2023 Oct 23.

Clinical Utility of Melanoma Sentinel Lymph Node Biopsy Nomograms

Harrison M Drebin ¹, Sharif Hosein ², Nicholas R Kurtansky ², Emily Nadelmann ²,

Andrea P Moy ³, Charlotte E Ariyan ¹, Danielle M Bello ¹, Mary S Brady ¹, Daniel G Coit ¹,

> Ann Surg Oncol. 2025 Mar;32(3):1463-1472. doi: 10.1245/s10434-024-16698-4. Epub 2024 Dec 16.

Declining Clinical Utility of Tools for Predicting Sentinel Lymph Node Biopsy Status: A Single Institution Experience from 2000 to 2021

Harrison M Drebin ^{1 2}, Nicholas R Kurtansky ³, Sharif Hosein ³, Emily Nadelmann ³,
Andrea P Moy ⁴, Charlotte E Ariyan ¹, Danielle M Bello ¹, Mary S Brady ¹, Daniel G Coit ¹,

> J Surg Oncol. 2023 Jun;127(7):1167-1173. doi: 10.1002/jso.27231. Epub 2023 Mar 11.

Are the MIA and MSKCC nomograms useful in selecting patients with melanoma for sentinel lymph node biopsy?

Sharif Hosein ¹, Harrison M Drebin ², Nicholas R Kurtansky ¹, Roger Olofsson Bagge ³ ⁴ ⁵,

Sentinel lymph node biopsy

> J Invest Dermatol. 2025 May 29:S0022-202X(25)00539-1. doi: 10.1016/j.jid.2025.05.019. Online ahead of print.

Noninvasive Diagnosis of Melanoma Using Machine Learning and Reflectance Confocal Microscopy

Jonathan Kentley ¹, Nicholas Kurtansky ², Manu Jain ², Miguel Cordova ², Jochen Weber ², Ucalene Harris ², Anabel Alfonso ², Allan C Halpern ², Veronica Rotemberg ²,

kaggle ISIC Grand Challenges

SIIM-ISIC Melanoma Classification

Identify melanoma in lesion images



2020

> Sci Data. 2021 Jan 28;8(1):34. doi: 10.1038/s41597-021-00815-z.

A patient-centric dataset of images and metadata for identifying melanomas using clinical context

Veronica Rotemberg ^{# 1}, Nicholas Kurtansky ^{# 2}, Brigid Betz-Stablein ³, Liam Caffery ³, Emmanouil Chousakos ^{2 4}, Noel Codella ⁵, Marc Combalia ⁶, Stephen Dusza ², Pascale Guitera ⁷, David Gutman ⁸, Allan Halpern ², Brian Helba ⁹, Harald Kittler ¹⁰, Kivanc Kose ², Steve Langer ¹¹, Konstantinos Lioprys ⁴, Josep Malvehy ⁶

> J Eur Acad Dermatol Venereol. 2025 Aug;39(8):1489-1499. doi: 10.1111/jdv.20479. Epub 2024 Dec 8.

Effect of patient-contextual skin images in humanand artificial intelligence-based diagnosis of melanoma: Results from the 2020 SIIM-ISIC melanoma classification challenge

Nicholas R Kurtansky ¹, Clare A Primiero ², Brigid Betz-Stablein ², Marc Combalia ³, Pascale Guitera ⁴, Allan Halpern ¹, Jonathan Kentley ^{1 5}, Harald Kittler ⁶.

ISIC 2024 - Skin Cancer Detection with 3D-TBP



2024

dentify cancers among skin lesions cropped from 3D total body photographs

> Sci Data. 2024 Aug 14;11(1):884. doi: 10.1038/s41597-024-03743-w.

The SLICE-3D dataset: 400,000 skin lesion image crops extracted from 3D TBP for skin cancer detection

Nicholas R Kurtansky ¹, Brian M D'Alessandro ², Maura C Gillis ³, Brigid Betz-Stablein ⁴, Sara E Cerminara ⁵, Rafael Garcia ⁶, Marcela Alves Girundi ⁷, Elisabeth Victoria Goessinger ⁵ Philippe Gottfrois ⁵, Pascale Guitera ⁷ ⁸, Allan C Halpern ³, Valerie Jakrot ⁷, Harald Kittler ⁹,



npj | digital medicine

CURRENT STATUS

Your revised submission is in peer review

Automated triage of cancer-suspicious skin lesions with 3D total-body photography

Dermatology and skin cancer

- Incidence
- Prognosis
- Imaging trends

Preview

International Skin Imaging Collaboration

- Mission
- Working Groups
- Promoting Standards
- Engagement

ISIC Archive

- How to use most effectively
- Thought process behind new features

1-in-5 Americans will develop skin cancer in their lifetime¹

Туре	Survival ¹
Melanoma	Highly treatable if detected early 75% 5yr survival if spread to regional lymph nodes 35% 5yr survival if spread to distant lymph nodes
Basal cell carcinoma	Highly treatable if detected early
Squamous cell carcinoma	Highly treatable if detected early

Digital imaging techniques in dermatology

Jenny L. Stone, MD,^a Robert L. Peterson, MD,^b and John E. Wolf, Jr., MD^a Houston, Texas

Digital imaging is a versatile technique that has been infrequently used in dermatology to record visual images. We have used this technology for 10 patients to follow cutaneous lesions, including alopecia mucinosa, psoriasis, and dysplastic nevi. The setup included a personal computer, digitizer board, monitor, video camera, and lights. An introduction to electronic (digital) imaging is given and some of the many possible applications in dermatology are discussed. (J AM ACAD DERMATOL 1990;23:913-7.)

JAAD - 1990

>80% of dermatologists capture digital photos

> J Am Acad Dermatol. 2013 Nov;69(5):837-838. doi: 10.1016/j.jaad.2013.07.010.

The use of digital cameras by US dermatologists

Peter Accetta ¹, Julia Accetta ², James Kostecki ³

Table I. Physician and practice characteristics by use of photography in practice

Characteristic	Photographers	Non-photographers	Total
Gender			
Male	80.1%	19.9%	56.0%
Female	84.9%	15.1%	44.0%
Age (yr)			
< 40	90.1%	9.9%	24.1%
40-49	80.6%	19.4%	26.0%
50-59	80.9%	19.1%	29.2%
60+	76.9%	23.1%	20.7%
Practice setting			
Solo	74.0%	26.0%	34.7%
Dermatology group	85.7%	14.3%	42.7%
Multispecialty group	86.3%	13.7%	13.5%
Academic	93.9%	6.1%	8.8%
NR			0.3%
Total	82.2%	17.8%	100.0%

NR, No response.

JAAD - 2013

International Skin Imaging Collaboration



Mission: Advance digital skin imaging to reduce skin cancer burden.

Promoting standards

Imaging techniques

Morphologic terms

Diagnostic taxonomy

Anatomic taxonomy

DICOM

Engagement

Grand Challenges

Workshops

Disseminating info

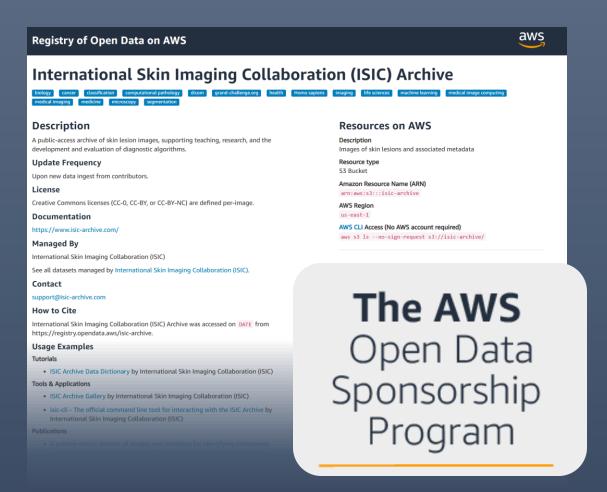
ISIC Archive

What is the ISIC Archive?

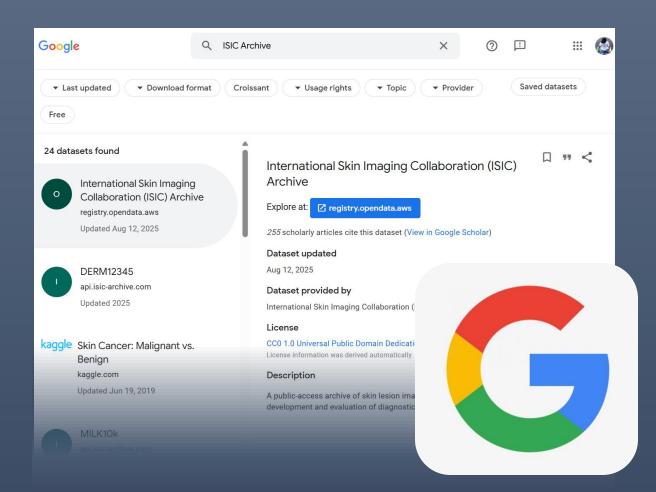
- 1. Archive of <u>individual skin images</u>
 With structured data elements (data dictionary)
- 2. Repository of <u>skin image datasets</u>

 May contain unstandardized/study-specific data

Image total (public)	549,575
Image total (public + embargoed)	1,203,229
Public datasets	53
Datasets DOIs	17
Total users	10,592
Sessions per month	20,000



Sustainability reassured by AWS sponsorship



Indexed in Google datasetsearch

3 questions for when considering NEW FEATURES

- 1. Why is it important?
- 2. Does it break anything?
- 3. Who is it for?

- User feedback & demand
- Working group initiatives
- Scalability
- Research vision



M-ISIC: A MULTIMODAL OPEN-SOURCE INTERNATIONAL SKIN IMAGING COLLABORATION INFORMATICS PLATFORM FOR AUTOMATED SKIN CANCER DETECTION

Funding agent vision



ISIC-REPO; ISIC SKIN IMAGING REPOSITORY ENHANCEMENTS FOR PROMOTING INTEROPERABILITY AND UTILIZATION

1. Why is it important?

Mission: Advance digital skin imaging to reduce skin cancer burden.

1. Promote standards 2. Engagement

2. Does it break anything?

Align with built infrastructure?

Maintainability

Scalability

3. Who is it for?

Data Users

Model developers, educators, & presenters

- Looking for existing benchmark datasets
- Looking for certain types of cases

Data Publishers

Researchers & image-contributors

- Uploading new images
- Publishing a study
- Using a custom subset of existing data

Examples

Multiple ways to access

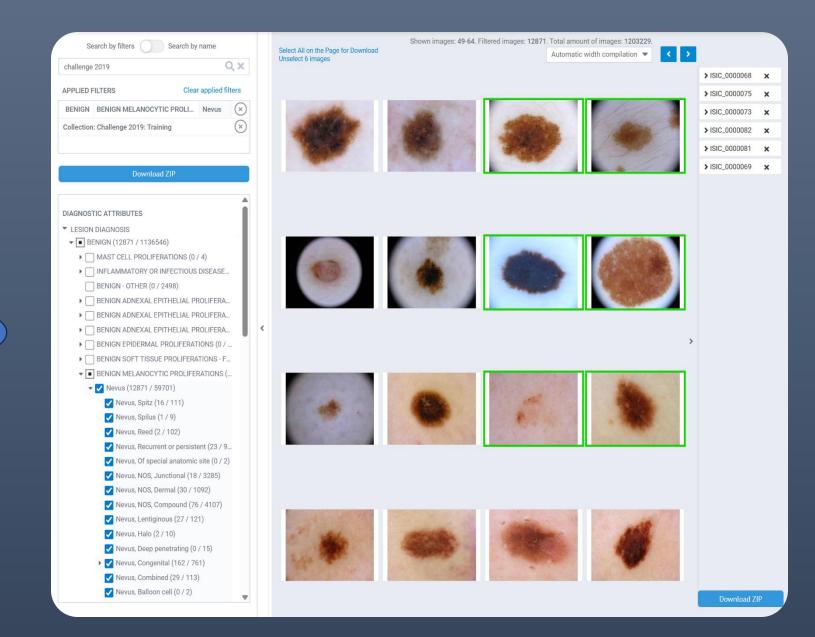
4. Official CLI & API



Multiple ways to access:

1. Gallery

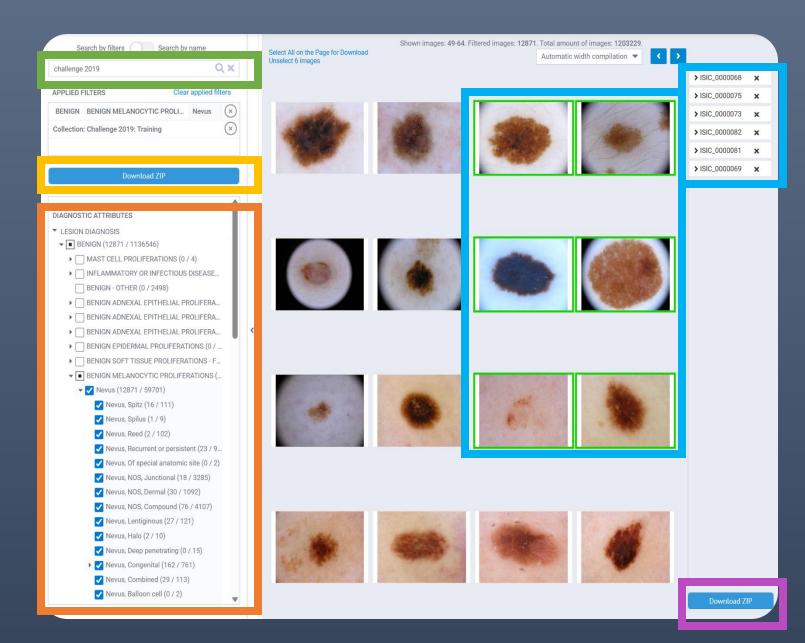
Browsing images



Faceted search
Faceted filter
Download filter

Image selection

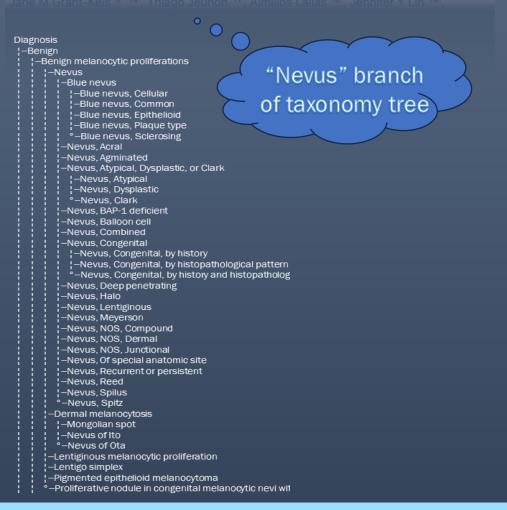
Download selection



> J Eur Acad Dermatol Venereol. 2025 Jan;39(1):117-125. doi: 10.1111/jdv.20055. Epub 2024 May 11.

International Skin Imaging Collaboration-Designated Diagnoses (ISIC-DX): Consensus terminology for lesion diagnostic labeling

Alon Scope ^{1 2}, Konstantinos Liopyris ^{2 3}, Jochen Weber ², Raymond L Barnhill ⁴, Ralph P Braun ⁵, Clara N Curiel-Lewandrowski ⁶, David E Elder ⁷, Gerardo Ferrara ⁸,



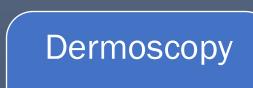
- 1. Why is it important?
- 2. Does it break anything?
- 3. Who is it for?

Filter with <u>new diagnostic taxonomy</u>

DIAGNOSTIC ATTRIBUTES			
▼ LESION DIAGNOSIS ▶ □ BENIGN (0 / 1136546)			
▼ ■ INDETERMINATE (387 / 3798)			
▼ ■ INDETERMINATE MELANOCYTIC PROLIFERATIONS (387 / 631)			
✓ Atypical melanocytic neoplasm (387)			
Atypical intraepithelial melanocytic proliferation (0 / 235)			
Atypical Spitz tumor (0 / 5)			
Atypical proliferative nodules in congenital melanocytic nevus (0 / 4)			
▶ ☐ INDETERMINATE EPIDERMAL PROLIFERATIONS (0 / 3160)			
▶			
▶ TYPE OF DIAGNOSIS (387 / 358234)			
► MELANOCYTIC			
► MELANOMA MITOTIC INDEX			
MELANOMA THICKNESS (MM)			
► MELANOMA ULCERATION			

- 1. Why is it important?
- 2. Does it break anything?
- 3. Who is it for?

Incorporating multimodal imaging





Clinical Close-up & Overview



3D TBP



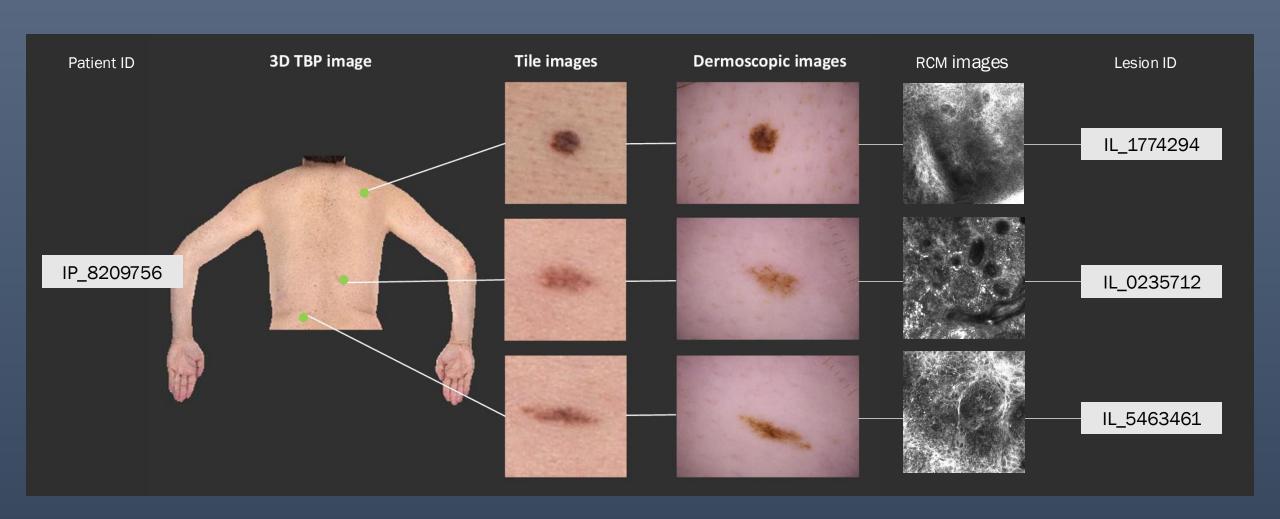
Reflectance Confocal Microscopy



1. Why is it important?

- 2. Does it break anything?
- 3. Who is it for?

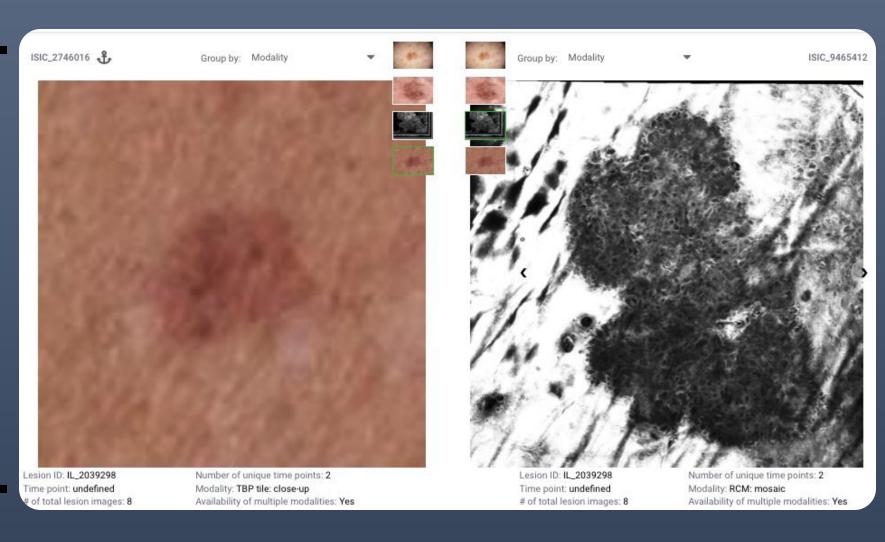
Supporting image relations



- 1. Why is it important?
- 2. Does it break anything?
- 3. Who is it for?

Multi-image case viewer

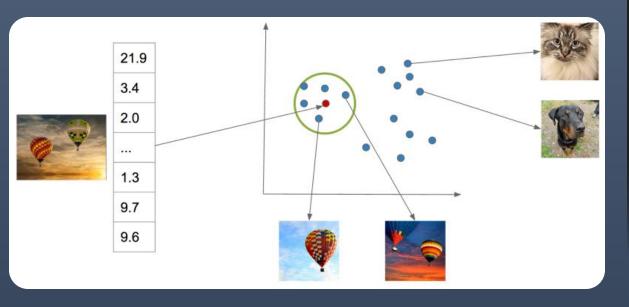




Visual similarity search

- 1. Why is it important?
- 2. Does it break anything?
- 3. Who is it for?

- Future capability
- Storing vector representations
- More control over Gallery search



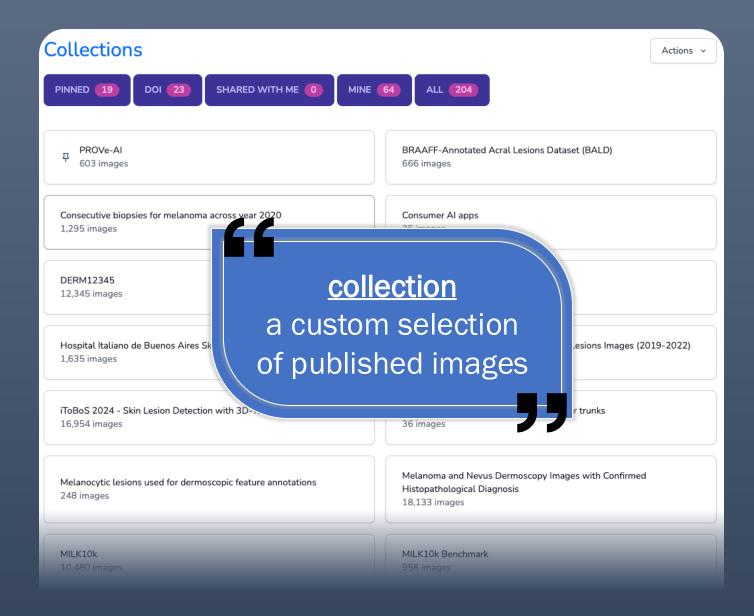


Google Images

Multiple ways to access:

- 1. Gallery
- 2. Collection Site

Finding & creating datasets



Curated datasets

PROVe-Al BRAAFF-Annotated Acral Lesions Dataset (BALD) 666 images Consecutive biopsies for melanoma across year Consumer Al apps 2020 35 images 1,295 images DERM12345 HIBA Skin Lesions 12,345 images 1,635 images Hospital Italiano de Buenos Aires - Skin Lesions Hospital Italiano de Buenos Aires Skin Lesions Images (2019-2022) 1,635 images 1,616 images iToBoS 2024 - Skin Lesion Detection with 3D-TBP Longitudinal overview images of posterior trunks 16.954 images 36 images Melanocytic lesions used for dermoscopic feature Melanoma and Nevus Dermoscopy Images with

BCN20000 Challenge 2016: Test 18.946 images Challenge 2016: Training Challenge 2017: Test Challenge 2017: Training Challenge 2017: Validation 2.000 images 150 images Challenge 2018: Task 1-2: Test Challenge 2018: Task 1-2: Training 2,594 images 1.000 images ☐ Challenge 2018: Task 3: Test Challenge 2018: Task 1-2: Validation 1,512 images 100 images Challenge 2018: Task 3: Validation Challenge 2018: Task 3: Training

From Research Studies From Grand Challenges

Conducting research?

- □ Annotating an existing dataset?
- ☐ Focused selection of images?

Consider creating your own collections!

- ✓ Save for future downloads
- ✓ Get a DOI link for your manuscript

Collection DOI Page

Collection name
Link to view images
Custom description
License and citation
File download links

MILK10k

MILK10k consists of 10480 images, each representing a paired clinical close-up and dermatoscopic image for 5240 lesions. The dataset's metadata include age (in 5-year intervals), sex, anatomic site, skin tone, diagnosis, method of ground furth establishment (histopathology or other means), and, if a dermatoscopic image of the same lesion was previously included in ISIC, its corresponding ISIC identifier. Skin tone is categorized into six levels, ranging from very dark (0) to very light (5), intentionally distinct from the Fitzpatrick skin types to avoid confusion. Most patients had skin tones in the middle ranges. Of the 5240 lesions, 95.7% were biopsied or excised, with histopathology serving as the gold standard for diagnosis. Diagnoses were mapped to both the ISIC-Dx diagnostic scheme and a simplified classification based on the ISIC2018/2019 challenge and HAM10000 diagnostic categories. The dataset includes 11 broad diagnostic categories.

- 1. Basal cell carcinoma (bcc)
- 2. Melanocytic nevus (nv)
- 3. Benign keratinocytic lesion (bkl)
- 4. Squamous cell carcinoma/keratoacanthoma (sccka)
- 5. Melanoma (mel
- 6. Actinic keratosis/intraepidermal carcinoma (akiec)
- 7. Dermatofibroma (df)
- 8. Inflammatory and infectious conditions (inf)
- 9. Vascular lesions and hemorrhage (vasc)
- 10. Other benign proliferations including collision tumors (ben_oth)
- 11. Other malignant proliferations including collision tumors (mal_oth)

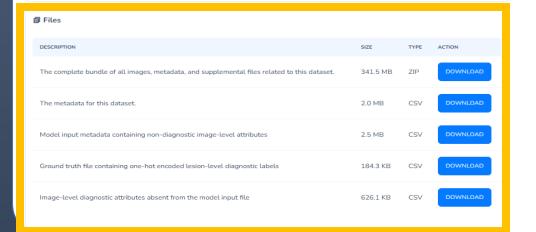
Additionally, we provide the most specific ISIC-Dx diagnosis and its parent branch in the ISIC-Dx diagnostic tree. In cases where a dermatoscopic image of the same lesion was already included in the ISIC archive, its ISIC identifier is reported in the metadata. Furthermore, all images have been annotated using the MONET framework, with probabilities for the following concept term groups included in the metadata:

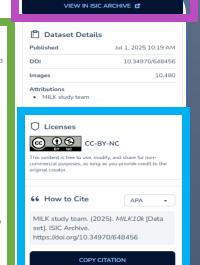
- 1. Ulceration, crust
- 2. Hair
- 3. Vasculature, vessels
- 4. Erythema
- 5. Pigmentation
- 6. Gel, water drop, fluid, dermoscopy liquid
- 7. Skin markings, pen ink, purple pen

In addition to MILK10k, we have curated a smaller benchmark dataset, called MILK10k Benchmark derived from the same sources and covering the same diagnostic categories. This dataset is available as part of a live challenge within the ISIC framework and can be accessed on ISIC.

Images were provided by the following institutions:

- Department of Dermatology, Medical University of Vienna, Vienna, Austria
- · Medicine Faculty Department of Dermatology, Ankara University, Ankara, Turkey
- Mayne Academy of General Practice, Medical School, The University of Queensland, Australia
- Dermatology Service, Memorial Sloan Kettering Cancer Center, New York, USA
- Independent Percercher, 1000 Skepie, North Maceden





Benefits of Collections DOIs

- 1. Why is it important?
- 2. Does it break anything?
- 3. Who is it for?

Discoverability

• Indexed on Google dataset search

Machine readability

- Related identifiers standard DataCite property
- Facilitates links to related study article, descriptor, or GitHub repo

Supplemental data

Study-specific annotations

Data consistency

• "Frozen ZIPs" ensure data won't be impacted by future changes

Draft pages

Adjust the hidden page prior to study publication

- 1. Why is it important?
- 2. Does it break anything?
- 3. Who is it for?

Create custom collection from existing data:

- 1. Initialize on the Collection Site
- 2. Create a line-separate file of select ISIC_IDs
 - Utilize image search functionality
- 3. Add images to the collection using ISIC-CLI
 - Mentioned later

If minting a DOI:

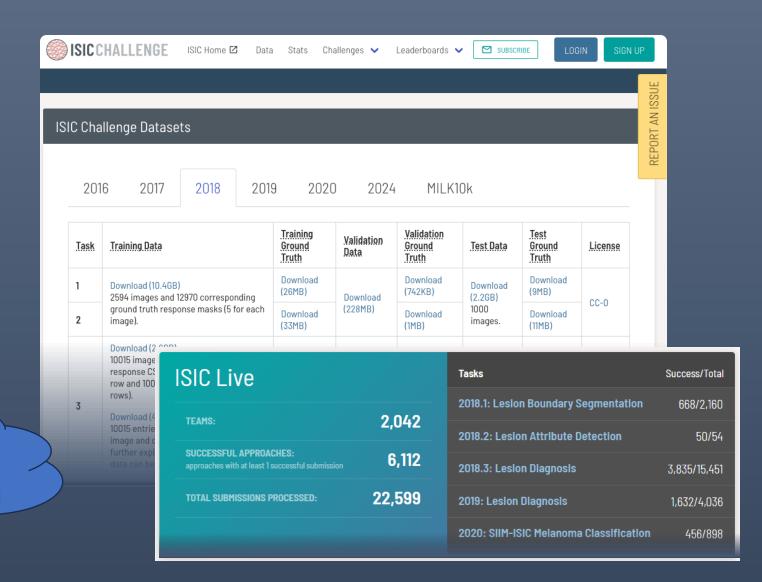
- 4. Prepare supplemental files (if necessary)
- 5. Contact us at support@isic-archive.com

Create a Collection A Collection is a container for a set of images. Collections can be used as the basis for sharing images or creating studies. A Collection can be public or private, and each of the individual images within it can be public or private.				
Name				
Description	Supports markdown.			
Public	A public collection can't contain private images. CREATE COLLECTION			

Multiple ways to access:

- 1. Gallery
- 2. Collection Site
- 3. Challenge Site

Benchmarking models & downloading competition data



HAM10000 dataset released in 2018

- 10,000 dermoscopic images
- Austria & Australia
- 7 diagnostic classes
- 2018 & 2019 Grand Challenges
- Thousands of citations

Data Descriptor Open access Published: 14 August 2018

The HAM10000 dataset, a large collection of multisource dermatoscopic images of common pigmented skin lesions

Philipp Tschandl ☑, Cliff Rosendahl & Harald Kittler

Scientific Data 5, Article number: 180161 (2018) Cite this article

119k Accesses 2847 Citations 27 Altmetric Metrics

"MILK10k"

A new benchmarking platform

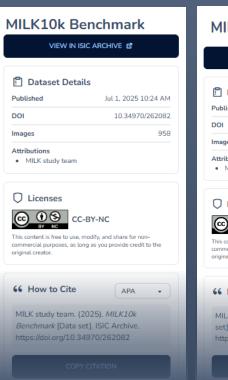
> J Invest Dermatol. 2025 Jul 21:S0022-202X(25)02270-5. doi: 10.1016/j.jid.2025.06.1594. Online ahead of print.

MILK10k: A hierarchical multimodal imaging learning toolkit for diagnosing pigmented and non-pigmented skin cancer and its simulators

Tschandl Philipp ¹, Akay Nisa Bengü ², Rosendahl Cliff ³, Rotemberg Veronica ⁴, Todorovska Verche ⁵, Weber Jochen ⁴, Wolber Anna Katharina ⁶, Müller Christoph ⁶, Kurtansky Nicholas ⁴, Halpern Allan ⁴, Weninger Wolfgang ⁶, Kittler Harald ⁷

Affiliations + expand

PMID: 40701400 DOI: 10.1016/j.jid.2025.06.1594





Data descriptor

DOI Collections

"MILK10k"

Multi-modal dataset

Two parts

- 1. Training¹
- 2. Test² (dx labels hidden)

Lesions contain two images

- Dermoscopic
- Clinical close-up

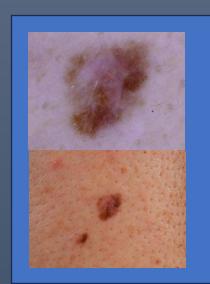
Metadata

- Diagnosis (ISIC-DX schema³)
- Age, sex, anatomical site
- Skin tone
- MONET⁴ framework annotations
 - ulceration/crust, hair,

 - vasculature.

 - pigmentation.

 - peń/skiń markings







	Train <i>MILK10k</i>	Test MILK10k Bench
Lesion count	5,240	479
Image count	10,480	958

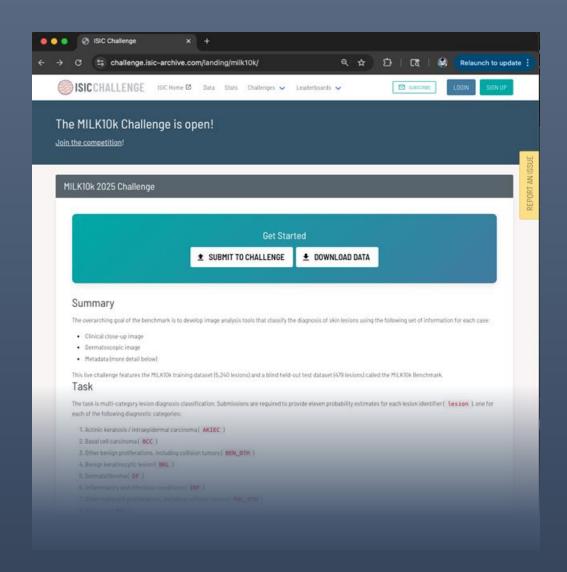
¹ MILK study team. (2025). MILK10k [Data set]. ISIC Archive. https://doi.org/10.34970/648456

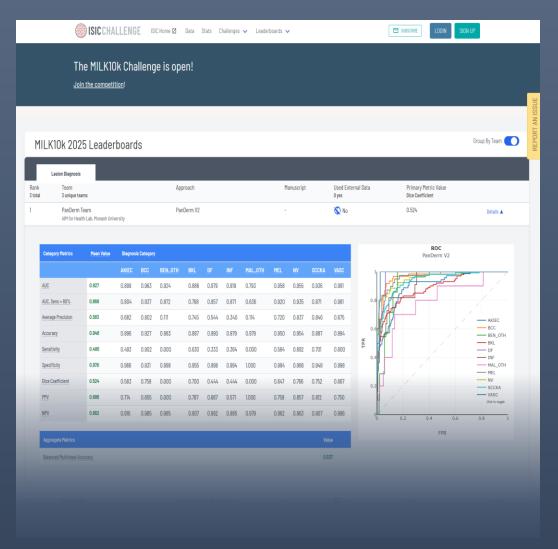
² MILK study team. (2025). MILK10k Benchmark [Data set]. ISIC Archive. https://doi.org/10.34970/262082

³ Scope A, Liopyris K, Weber J, et al. International Skin Imaging Collaboration-Designated Diagnoses (ISIC-DX): Consensus terminology for lesion diagnostic labeling. J Eur Acad Dermatol Venereol. 2025;39(1):117-125. ⁴ Kim C, Gadgil SU, DeGrave AJ, et al. Transparent medical image AI via an image-text foundation model grounded in medical literature. Nat Med. 2024;30(4):1154-1165.

"MILK10k" Challenge Submission Platform

- 1. Why is it important?
- 2. Does it break anything?
- 3. Who is it for?





Multiple ways to access:

Gallery

2. Collection Site

3. Challenge Site

4. Official CLI & API

Type '/' to search projects

✓ Latest version

 $\stackrel{\triangle}{=}$ \checkmark

 $\stackrel{\triangle}{=}$ \checkmark

 $\stackrel{\triangle}{=}$ \checkmark

 $\stackrel{\triangle}{=}$ \checkmark

isic-cli 12.4.0



ISIC Archive 12 OAS 3.1

Downloading images

isic image download

optionally filter isic image download isic image download

Downloading metadata

isic metadata downlo

find a collection isic collection list

Interact programmatically with the ISIC Archive

collections

/api/v2/collections/ Return a list of collections. GET

/api/v2/collections/{id}/ Retrieve a single collection by ID. GET

images

GET /api/v2/images/ Return a list of images.

/api/v2/images/search/ Search images with a key:value query string.

/api/v2/images/{isic id}/ Retrieve a single image by ISIC ID. GET

lesions

GET

/api/v2/lesions/{id}/ Retrieve a single lesion by ID.



Mission of ISIC

- Creating & promoting standards
- Engaging clinical and computer vision communities



How to find existing data on the ISIC Archive

- ISIC Gallery
- Pre-built collections
- Benchmarking platform



Benefits of creating your own DOI Collection

- How to create a custom image-selection
- Supplemental data,
- Draft DOIs
- Linking/machine-readability

In Summary

Acknowledgments







National Institute of Health (NIH)

- [P30] Cancer Center Support Grant
- [U24] M-ISIC: Multimodal ISIC Informatics Platform for Skin Cancer Detection
- [U24] ISIC-REPO: Repository Enhancements for Promoting Interoperability

Melanoma Research Alliance (MRA)

Team Science Award

Department of Defense (DOD)

- Melanoma Scholar
- MRP Team Science Award

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