

Committee Update for 2024

Sub-Committee Name: NOMENCLATURE COMMITTEE

Co-Chairs: Jamie Scott & Claudia Kemper

Current Members:

(Note: the membership of NOM consists of the Chairs of its Sub-Committees (**SCs**). They elect Co-Chairs who are not serving as Chairs or Co-Chairs of any NOM SC.)

- Joana Vitte (Allergen Nom SC)
- Ignacio Sanz (B-cell & Plasma-cell Nom SC)
- Menno van Zelm (CD Molecule Nom SC)
- Trent Woodruff (Complement Nom SC)
- Marco Colonna (Innate Lymphocyte Nom SC)
- Steven Marsh (Killer-cell Immunoglobulin-like Receptor Nom SC)
- Ana Maria Caetano (Mucosa Associated Lymphoid Tissue Nom SC)
- Loems Ziegler-Heitbrock (Monocyte/Dendritic-Cell Nom SC)
- Felix Breden (T-cell Receptor & Immunoglobulin Gene Nom SC)

Affiliated societies &/or other organizations:

- European Academy of Allergy and Clinical Immunology (EAACI)
- American Academy of Allergy, Asthma & Immunology (AAAAI)
- World Allergy Organization
- International Complement Society
(an IUIS International Affiliate Member)
- Human CD Molecules organization
- The Antibody Society/Adaptive-Immune Receptor Repertoire Community
(an IUIS International Affiliate Member)

Mission:

The NOM is responsible for engaging the immunology community in an open forum, where universal and consistent nomenclatures for the cells, molecules and genes of the immune system are established and maintained. The NOM oversees the activities of 10 Sub-Committees dedicated to nomenclature for specific areas of immunology. NOM consist of the Chairs and Vice Chairs (or Co-Chairs) of these 9 Sub-Committees plus two NOM Co-Chairs. A Chair, Vice Chair, or Co-Chair of a NOM Sub-Committee may not serve simultaneously as a Co-Chair of NOM.

Update:

Please describe *in brief* (preferably in bullet points) the work this Committee performed between November 2023 and now. Please include meetings held (with dates) and any actions taken, along with work products, such as website maintenance or manuscripts your Members published on behalf of the Sub-Committee.

Meetings (and actions taken):

- 30 July 2024
 - o Approved Claudia Kemper as new NOM Co-Chair after seeking nominations from the NOM SCs
 - o Began process of:

- Re-structuring some Sub-Committees into Review Committees (B-cell & Plasma Cell Nom SC; Innate Lymphocyte SC)
 - Dissolving the Atypical Chemokine Receptor Nom SC
 - Creating a Cytokine/Interferon/Chemokine & Receptor Working Group to explore becoming a SC
 - Approved outlined topics for Bi-monthly Council Report (August 2024)
 - Approved Guidelines for Nomenclatures to Receive Approval from NOM
 - Approved plan for submitting SC annual reports for NOM's annual report
- 6 September 2024
- Approved Suggestions for Recruiting New Member for NOM
 - Approved Proposal for Creating Prominent Database Resource Hub/Widget on IUIS website
 - Approved NOM and SC Annual Report for submission to IUIS
 - Not all SC Annual Reports had been submitted.

Work Products (publications, website updates, workshops, podcasts, etc.):

- Updated NOM website (after approval of plan)
- Guidelines for Nomenclatures to Receive Approval from NOM
 - Submitted to the IUIS Executive Committee for approval from Council
- Suggestions for Recruiting New Members for NOM
- Proposal for Creating Prominent Database Resource Hub/Widget on IUIS Website

Funds Provided for 2024: *(See individual Sub-Committee reports for funding provided)*
 (Please list overall amounts and each item that funds were to be spent on and their cost)
 By IUIS: None
 By other entities: None

Funds Spent in 2024: *(See individual Sub-Committee reports for their expenditures)*
 (Please list overall amounts and break down each item and amount the funds were spent on)
 IUIS funds: None
 Funds from other entities: None

Funds Requested for 2025: *(See individual Sub-Committee reports for their requests)*
 (Please explain what that funding would go toward, and if other entities, like associated societies, or other entities, will also be providing funds.)

- From IUIS: Up to \$5,000 USD for producing a prominent Resource Hub/Widget for NOM databases

From other entities: None

The requested funding (see attached proposal) is to build a prominent hub or widget on the IUIS website to easily connect viewers to database resources that are currently difficult to find.

Education

New York University, 2017 BFA in Web Development & Design

Professional Experience

Sprüth Magers Gallery

August 24' - Ongoing

Full Stack Development

Wordpress Custom Theme, JS, CSS, PHP, Git, MYSQL and Filemaker Pro

I work on building out new functionalities, ensuring security, and debugging issues across the gallery's website. I consult on issues of long term stability across browsers and devices, and advise on handling and safeguarding sensitive client information. I build custom plugins and layouts for the publishing team to use, and write custom scripts for most cleanly querying from the gallery's database.

Mother Magazine

April 23' - January 24'

Web Development Lead, Project Management

Figma and Adobe Illustrator (Design), Wordpress Custom theme, JS, CSS, PHP, Git (Development), and GTM and GA (Analytics)

I developed a custom Wordpress Theme around a redesigned wireframe, working closely with a Lead Designer at Studio Murnane. I hired a Junior Developer to assist with WordPress customization and we built the new site in three phases, checking in with the client as we reached each milestone. After finishing the staging site I led a thorough cross-browser testing with freelance Website Testing Specialists, and finally installed Google Tag Manager with custom events and launched the Production Site.

Design Within Reach

September 22' - Ongoing

Design Lead, Project Management

Figma (Design), Salesforce CMS with custom JS, CSS, Tooling API (Development)

As a lead on the Design Within Reach redesign project I developed a timeline and budget, oversaw the creation of a refined visual identity, and produced style guides for marketing and SEO. I led design meetings, ensuring new layouts and assets were in line with notes I'd received from the client. I worked closely with the Senior Developer to ensure our designs were within the scope of their abilities and tech stack, and played a large role in developing a custom Product Category page. I conducted cross-browser and A/B testing, resolved functionality issues, and coordinated the website launch with the Marketing Team.

GLAAD

February 22' - Ongoing

Web Development Lead, Project Management

Figma and Sketch App (Design), Wordpress with custom JS, CSS, PHP, Git (Development), and GTM and GA (Analytics)

I was brought on for a year-long project to head custom Wordpress theme build for a redesign of the non-profit's website that more clearly delivers news, is better responsive on mobile and tablet devices, and is much better performing. The new website performs nearly twice as quickly, is clearer to navigate, and functions robustly across devices.

Since launching the redesigned site I have continued to work with GLAAD, writing custom PHP and CSS to customize layouts.

REIDL

November 20' - Ongoing

Back End Web Development, Troubleshooting

PHP, Tailwind CSS, Git

I work on a project basis with a small agency to debug parts of the checkout process and add specific functionalities to the REIDL website. My work is almost entirely writing and debugging PHP, and occasionally working with Tailwind CSS. Recent functionalities I've added include the ability to track previous orders through a Customer Account, automatically sending discounts to customers based on spending patterns, and a more easily trackable Order Status page.

MYL Berlin

July 19' - Nov 20'

Design and Web Development Lead

Photoshop, Wordpress (PHP), CSS, HTML, JS

In-house Designer and Wordpress programmer for MYL Berlin. I created and pitched designs for the company website and implemented them on a custom Wordpress theme, contracting Junior Developers as needed.

HAU Hebbel am Ufer: Exhibition by RA Walden

Nov 21' - March 22'

Design and Web Development Lead

Figma, Photoshop, Kirby CMS (PHP), CSS

I was Lead Designer and Developer of a website to accompany an exhibition by RA Walden entitled 'science fiction is not pretend'. The site displayed the artist's video work in 6 formats (German, English, and Audio and Visually Impaired versions), and created a unique portal to view the artist's research.

HAU Hebbel am Ufer: Presents

January 23' - September 23'

Design and Web Development Lead

Figma, Photoshop, Kirby CMS (PHP), CSS

I was Lead Designer and Developer of an online video player for a curated selection of video artworks, funded by HAU and the Canada Council. The project included rigorous Accessibility Audits and custom graphics to correspond with the tone of an accompanying theatrical event series.

Nowar.Help

April 22' - June 22'

Design and Web Development Lead

Figma, Photoshop, Kirby CMS (PHP), CSS

I was approached by a nonprofit organization to be Lead Designer and Developer for a website that organizes, translates, and distributes resources for those fleeing from Ukraine in need of resources:

Judy Landkammer

September 23' - November 23'

Design and Web Development Lead

Photoshop, Wordpress (PHP), CSS, HTML, JS

Created new design and theme for Film Editor Judy Landkammer in preparation for her two nominations at Berlinale 2024

Additional Freelance Projects:

[Alex Mader Fashion Photography](#)

Built with Wordpress

[Neukölln Einkaufshilfe](#)

Built with Wordpress

[COVEN Berlin's Cyberbog](#)

Built with HTML, JS, CSS

[Akdik Gebäudereinigung](#)

Built with Wordpress

[Scroll Through Today in History](#)

Built with HTML, JS, CSS, Wikipedia API

[Shepard Storage](#)

Built with Wordpress

[Wilson Storage Solutions](#)

Built with Wordpress

[Shepard Toyota](#)

Built with Wordpress

[Jaguar South Shore](#)

Built with Wordpress

[Gary Force Honda](#)

Built with Wordpress

Awards, Honors

2021/2022: Grant from the Senate for Culture Berlin, with the collective COVEN BERLIN

2013/2017: Steinhardt Studio Art Talent Stipend

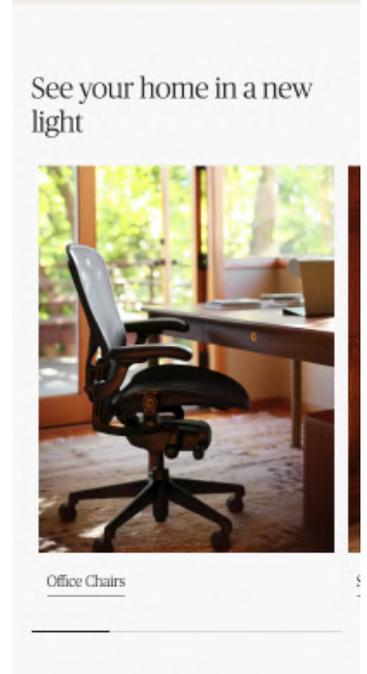
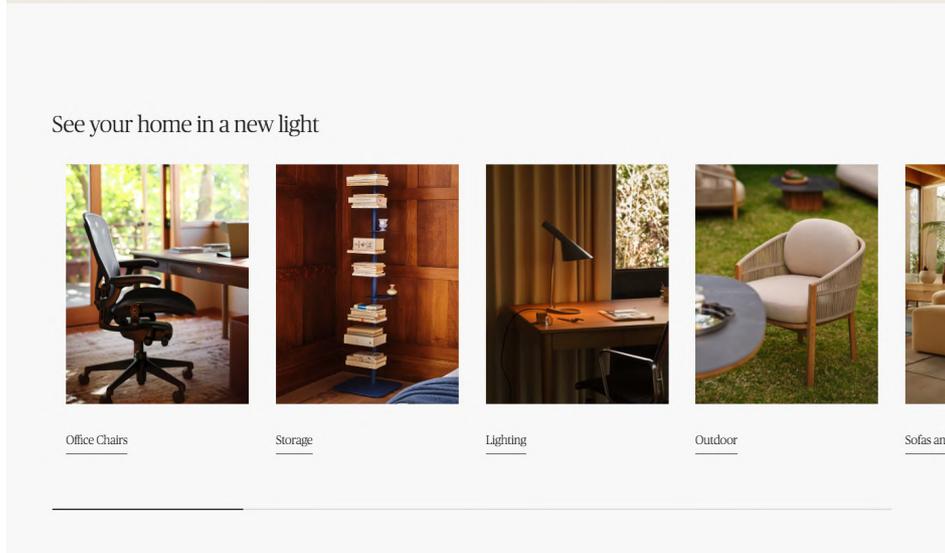
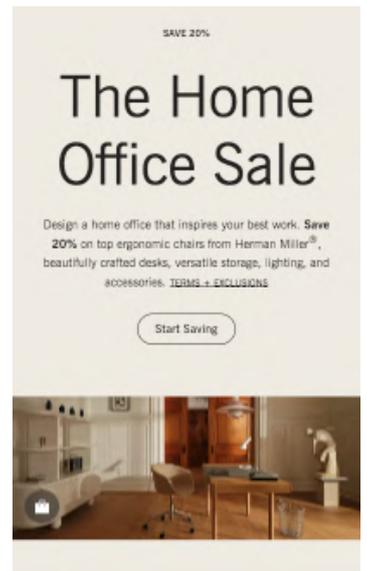
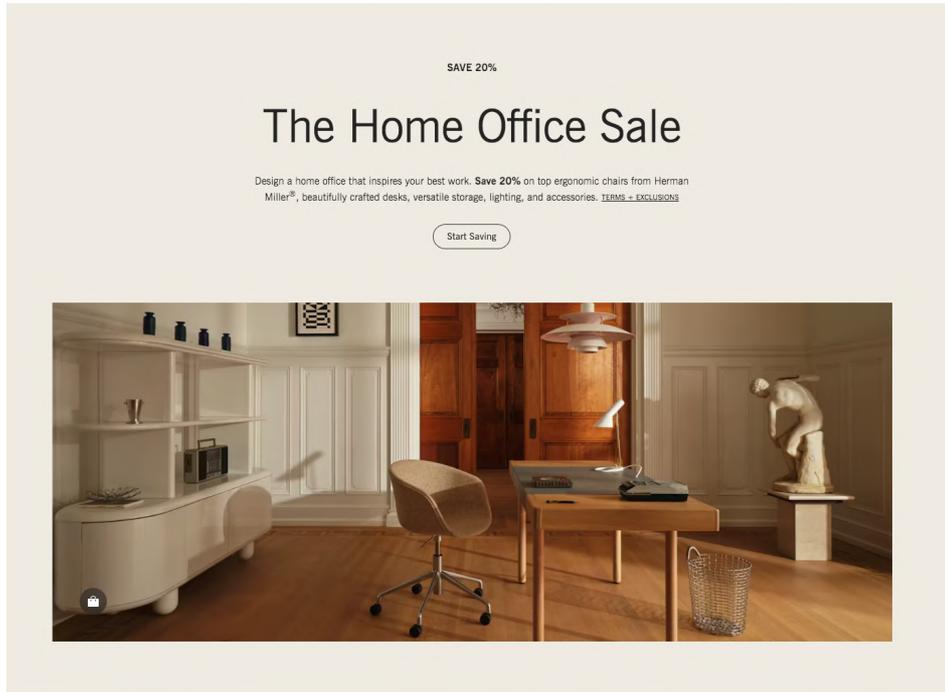
2013/2017: Clay Family Scholarship

2016 New York University Honors Studio Program

Cooper Lovano

Website Project Manager and Full Stack Developer
B. 1995 Los Angeles CA
NYU 17' Web Applications and Development, Design

Recent Project: Design Within Reach



Client: Design Within Reach
Client Field: Luxury Furniture and Interior Design
Position: Design Lead, Project Management
Solo/With Agency: Brought on solo to the DWR Team
Technology Used: Figma (Design), Salesforce CMS with custom JS, CSS, Tooling API (Development)
Date Began: September 2022
Date Ended: Ongoing on project basis

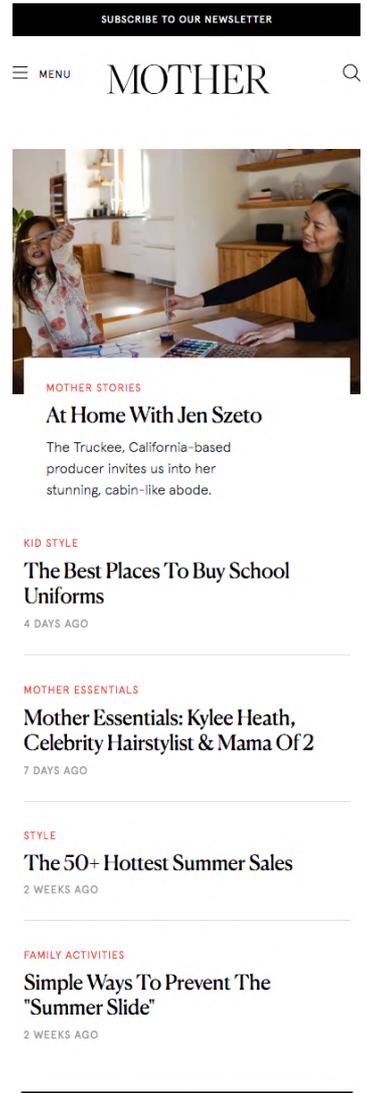
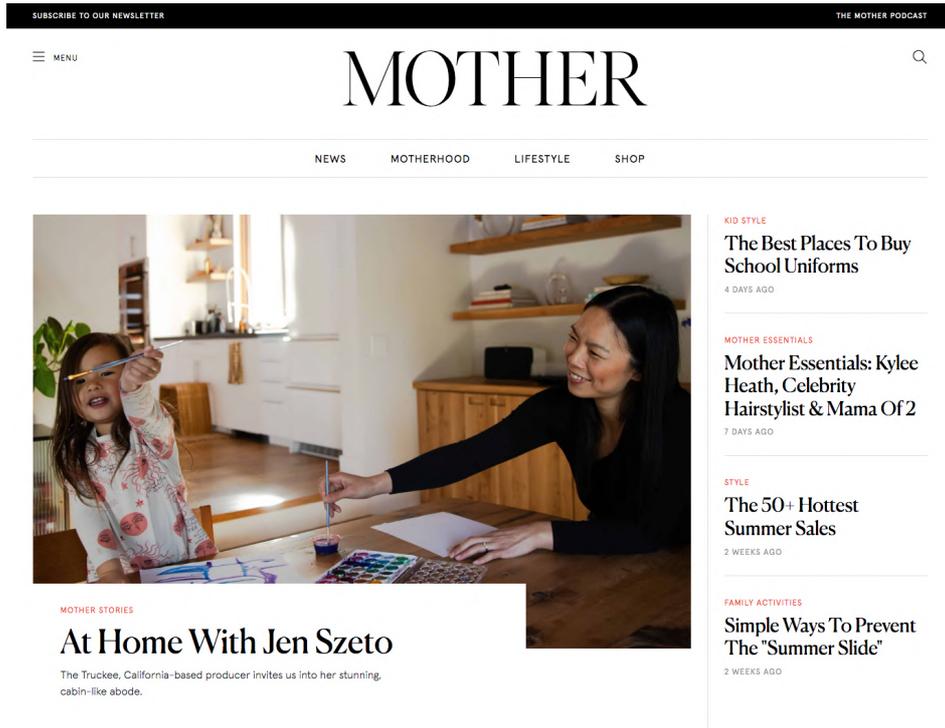
Project Overview:

- Create timeline and budget estimate for a redesign and site build, including labor and technology costs
- Oversee design team in creating a cleaner and simpler visual identity for DWR, one that uses finely selected font pairings, subtle color combinations, and a pared-down grid layout to make a clear visual hierarchy
- Create style guides with typeface, logo, and color constraints for the Marketing and Social Media team as well as keyword and SEO-related writing conventions for copywriters
- Lead meetings with graphic designers, providing feedback until wireframes satisfy the client's needs
- Present designs to the client and decide upon final layout
- Assess technology needs and work with Senior Developer to plan for tech build, set up Staging Site
- Lead a portion of the site build myself (customizing the Category Page layout) and oversee the progress of the rest
- Provide check-ins with the client as we complete milestones
- Conduct rigorous cross-browser and A/B testing with custom feedback forms, and assemble a list of issues to address ordered by priority
- Systematically address functionality issues
- Lead the launch of the redeveloped website, working closely with the Marketing Team on a suite of graphics
- Ask for feedback from freelance and contract employees about their experience and aspects that were notably smooth and what can be improved upon

Cooper Lovano

Website Project Manager and Full Stack Developer
B. 1995 Los Angeles CA
NYU 17' Web Applications and Development, Design

Recent Project: Mother Magazine



Featured Stories



MOTHER ESSENTIALS
Mother Essentials: The Mamas Behind MAJO Ideas



HOROSCOPES
July 2024 Horoscopes



MOTHER STORIES
Katonya Breaux On The Grief Of Losing A Son

Client: Mother Magazine
Client Field: Magazine and Lifestyle Brand centered around Motherhood
Position: Web Development Lead, Project Management
Solo/With Agency: Contracted with Studio Murnane
Technology Used: Figma and Adobe Illustrator (Design), Wordpress with custom Theme, JS, CSS, PHP, Git (Development), and GTM and GA (Analytics)
Date Began: April 2023
Date Ended: January 2024

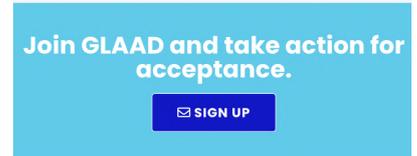
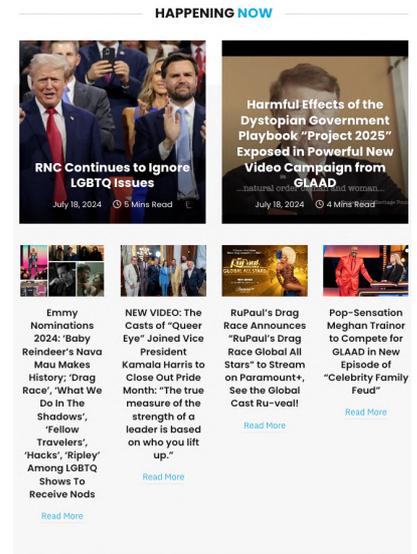
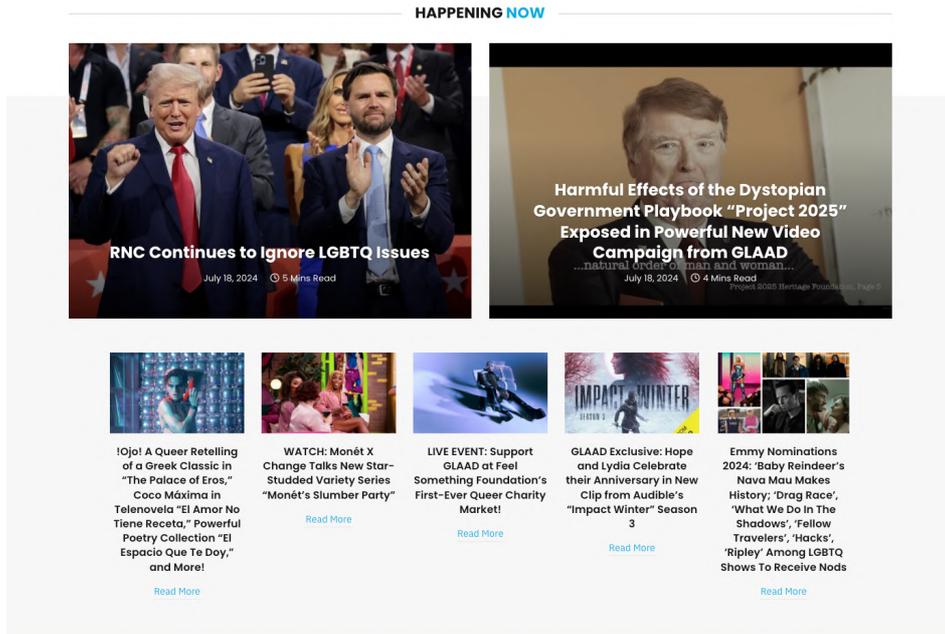
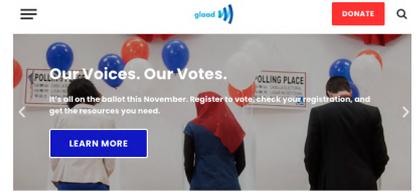
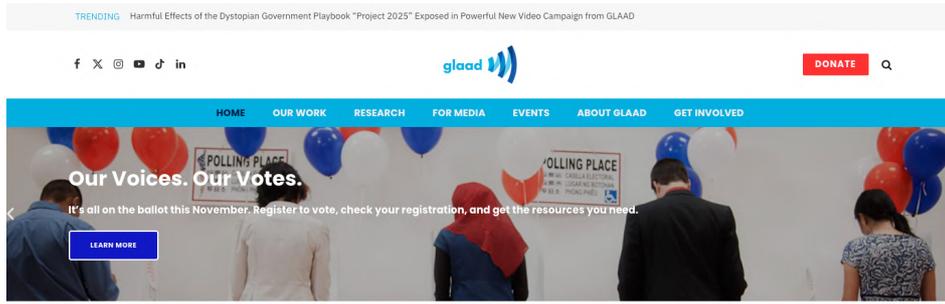
Project Overview:

- Create timeline and budget estimate for the development of a redesigned site wireframe, including labor and technology costs
- Work with Lead Designer at Studio Murnane as they developed new layouts and features for the site, assessing feasibility and timeline
- Interview and hire a Junior Developer to assist with Wordpress Customization
- Create a Staging Site to build the new design on, and clone the necessary plugins, libraries, and integrations
- Break project up into distinct phases with prioritized to-do lists in order to meet our deadline, and host weekly check-ins with the Junior Developer and the Studio Murnane team
- Install GA and Google Tags tied to events, customize monthly analytics report
- Conduct rigorous testing on the Staging site once complete, and hire 10 freelance Website Testing Specialists to complete custom review forms
- Provide link to the Staging Site to the client after implementing notes, assemble and order client's feedback by priority level
- Complete work on Staging Site and prepare the environment to push it to Production, first creating a backup of the old website
- Push new site to Production
- Ask for feedback from freelance and contract employees about their experience and aspects that were notably smooth and what can be improved upon

Cooper Lovano

Website Project Manager and Full Stack Developer
B. 1995 Los Angeles CA
NYU 17' Web Applications and Development, Design

Recent Project: GLAAD



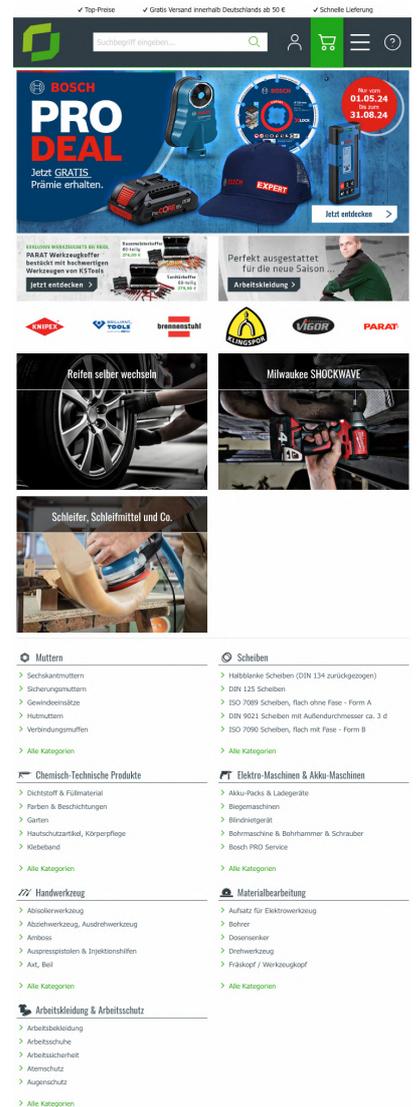
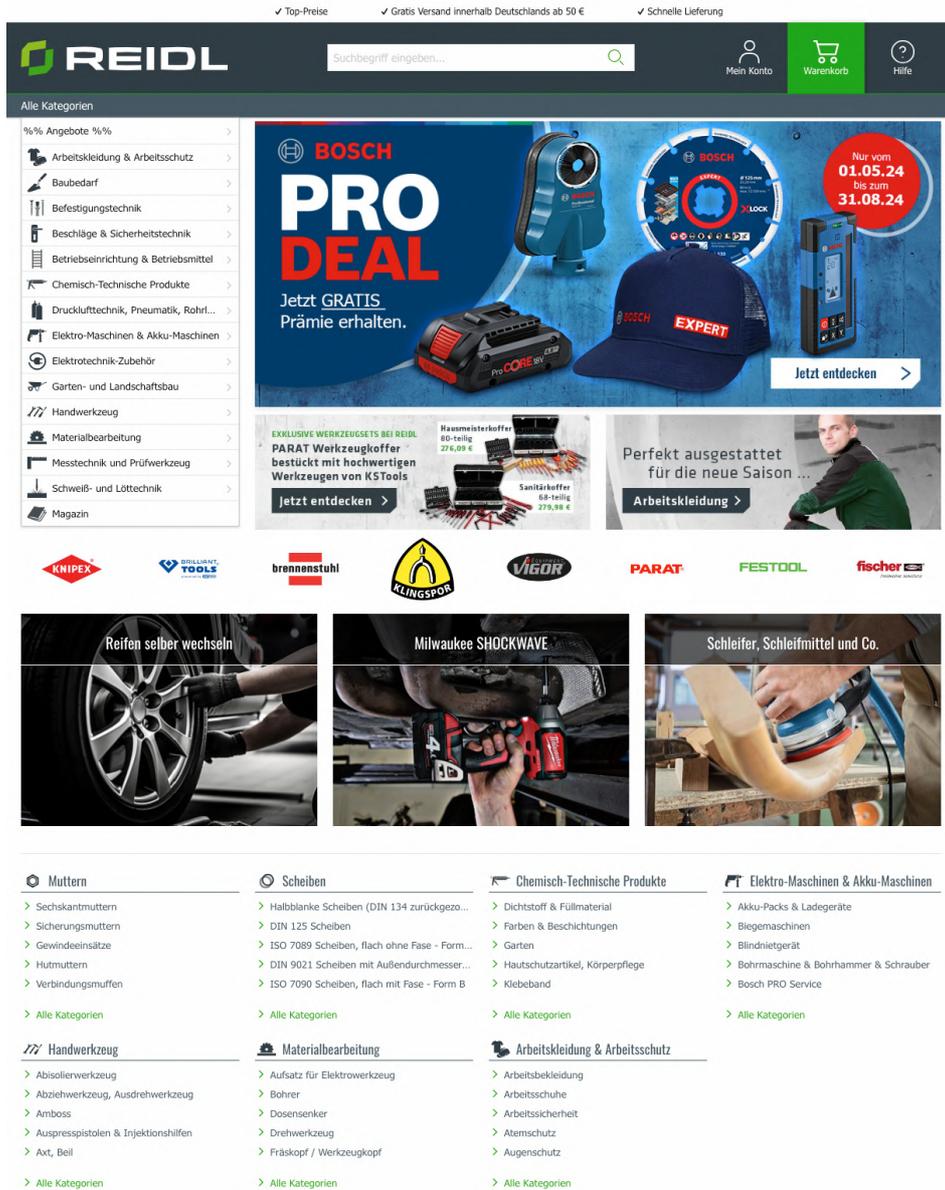
Client: GLAAD
Client Field: Non-profit organization focused on LGBTQ advocacy
Position: Web Development Lead, Project Management
Solo/With Agency: Brought on Solo to work with Lead Designer on the GLAAD Team
Technology Used: Figma and Sketch App (Design), Wordpress with custom JS, CSS, PHP, Git (Development), and GTM and GA (Analytics)
Date Began: February 2022
Date Ended: Ongoing on project basis

- Project Overview:**
- Create timeline and budget estimate for the development of a redesigned site wireframe, including labor and technology costs
 - Work with GLAAD's Lead Designer to discuss feasibility of features in the new wireframe
 - Create a Staging Site to build the new design on, and clone the necessary plugins, libraries, and integrations
 - Break project up into three phases with prioritized to-do lists in order to meet our deadline, and host weekly check-ins with the Lead Designer
 - Install GA and Google Tags tied to events, customize monthly analytics report
 - Conduct rigorous testing on the Staging site once complete, and spend 3 weeks gathering notes from the client about necessary changes
 - Provide client with link to the Staging Site after implementing changes
 - Complete work on Staging Site and prepare the environment to push it to Production, first creating a backup of the old website
 - Push new site to Production
 - Ask for feedback from client about their experience and aspects that were notably smooth and what can be improved upon

Cooper Lovano

Website Project Manager and Full Stack Developer
B. 1995 Los Angeles CA
NYU 17' Web Applications and Development, Design

Recent Project: REIDL



Client: REIDL
Client Field: Electronics and Hardware Company
Position: Back End Web Development, troubleshooting
Solo/With Agency: Solo
Technology Used: PHP, Tailwind CSS, Git
Date Began: November 2020
Date Ended: Ongoing on project basis

Project Overview:

- Assess the needs of the client and make budget and timeline estimate until completion
- Tasks generally consist of debugging steps along the Checkout Process, adding fields to Customer Profile forms, cleaning databases
- When adding new functionalities: Develop code on a custom built Staging Site I have for the client with prebuilt dependencies
- When debugging code on the live site: Create a clone of the live site and monitor changes with Git, providing detailed comments and comprehensive logging of errors and warnings. Set up CDN to offload static content.
- Ask for feedback from client about their experience and aspects that were notably smooth and what can be improved upon

Improving Clarity of Database Access on the IUIS Website

Focus: Improving Access to Key Databases

By modifying the IUIS Website to make links to external database resources clearer and more prominent we can improve usability for researchers, scientists, and the general public. Additionally, streamlining access to these databases will help attract funding from industry partners.

- Current external databases linked on the site (e.g., **CDCM**, **Allergen**, and **QAS subcommittee databases**) are not as easily accessible as they should be.
- Clear, intuitive navigation, prominent Homepage sections, and further integration of these resources will enhance user experience and encourage repeated use.
- Making these links more prominent will strengthen the IUIS's role as a key source of immunological information, increasing visibility within both academic and industry communities.

Approach from Concept to Implementation

To ensure these improvements are executed effectively, I propose a step-by-step approach:

1. Wireframe Designs:

- Create initial mockups and wireframes that show how the external links to the databases will be displayed more clearly on the website.
- Focus on visibility, intuitive navigation, and user-friendliness.

2. Consulting with the IUIS Team:

- Present the wireframes to key team members and gather feedback.
- Incorporate suggestions to ensure that the modifications align with the organization's goals.

3. Building a Staging Version:

- Develop a staging site with the proposed modifications, allowing for internal testing.
- This version will include all improvements, enabling the team to test the usability and ensure everything works seamlessly before going live.

4. Testing and Deployment:

- Test the staging version with selected users and team members to ensure optimal functionality.
- Once approved, deploy the improvements to the live site for immediate impact.

Further Modifications

Beyond improving external database clarity, I propose making other external links across the site clearer and more informative:

- Introduce supplementary information or tooltips that provide context for each external link.
- Ensure that all external links are visually distinct and easy to find, improving overall site navigation and user experience.
- These enhancements will further solidify the IUIS website's reputation as a well-organized and user-friendly platform for immunological resources.

Allergen Nomenclature Sub-Committee Update for 2024 (September 9, 2024)

Sub-Committee Name: WHO/IUIS Allergen Nomenclature Sub-Committee

Co-Chair for Science: Christian Radauer, PhD, Medical University of Vienna, Vienna, Austria

Co-Chair for Liaison: Joana Vitte, MD, PhD, University of Reims Champagne-Ardenne, Reims, France

Secretary: Geoffrey Mueller, PhD, National Institute of Environmental Health Sciences, Durham, NC, USA

Current Members:

- Thomas A.E. Platts-Mills, MD, PhD, University of Virginia, Charlottesville, VA, USA
- Heimo Breiteneder, PhD, Medical University of Vienna, Vienna, Austria
- Sanny K Chan, MD, PhD, Allergy and Clinical Immunology, Santa Monica, CA, USA
- Maksymillian Chruszcz, PhD, Michigan State University, East Lansing, MI, USA
- Gabriele Gadermaier, PhD, University of Salzburg, Salzburg, Austria
- Richard E. Goodman, PhD, University of Nebraska, Lincoln, NE, USA
- Christiane Hilger, PhD, Luxembourg Institute of Health, Esch-sur-Alzette, Luxembourg
- Thomas Holzhauser, PhD, Paul-Ehrlich-Institut, Langen, Germany
- Alain Jacquet, PhD, Chulalongkorn University, Bangkok, Thailand
- Uta Jappe, MD, MSc, Research Center Borstel, Borstel, Germany
- Jonas Lidholm, PhD, Thermo Fisher Scientific, Uppsala, Sweden
- Andreas Lopata, PhD, James Cook University, Townsville, Australia
- Vera Mahler, MD, Paul-Ehrlich-Institut, Langen, Germany
- Markus Ollert, MD, CRP-Santé, Luxembourg, Luxembourg
- Anna Pomés, PhD, InBio, Charlottesville, VA, USA
- Monika Raulf, PhD, Institute of Prevention and Occupational Medicine, Bochum, Germany
- Alexandra Santos, MD, PhD, Kings College, London, UK
- Keity Santos Souza, PhD, University of Sao Paulo, Sao Paulo, Brazil
- Edzard Spillner, PhD, Aarhus University, Aarhus, Denmark
- Josephina Zakzuk Sierra, PhD, University of Cartagena, Cartagena, Columbia
- Yuzhu Zhang, PhD, USDA ARS, Albany, CA, USA

Members at large (non-voting)

- Martin D. Chapman, PhD, InBio, Charlottesville, VA, USA
- Marianne van Hage, MD, PhD, Karolinska Institute, Stockholm, Sweden
- Ronald van Ree, PhD, Academic Medical Center, Amsterdam, The Netherlands
- Stefan Vieths, PhD, Paul-Ehrlich-Institut, Langen, Germany

Affiliated societies &/or other organizations:

EAACI

Update:

Meetings and actions taken

June 2, 2024: in-person meeting in Valencia (Spain) during the EAACI annual meeting

- 2 communications (see below)
- On a permanent basis: reception of new allergen submission, scientific evaluation by Dr Christian Radauer and two members of the SubCommittee according to their area of expertise
- Report on 2023 scientific activities (Dr Christian Radauer), correspondence with the authors, if requirements are met: addition of the new allergens to the database
- Report on 2023 budget (Dr Anna Pomés, outgoing secretary of the subcommittee)
- Discussion of ongoing works: 2024 EAACI Task Force Allergen Nomenclature and 2024 EAACI Task Force BACALL (Bacterial and Fungal Allergens)
- 17 Sub-Committee members met in person or remotely in Valencia, Spain, on June 2nd 2024
- Uta Jappe and Anna Pomes lead the Task Force BACALL supported by the EAACI on “IgE binding proteins from bacteria, protozoans, helminths and fungi and their impact on precision diagnosis and prevention of allergic diseases (BACALL)” which is in the final stages of preparing a review on this topic.

Work products (publications, website updates, workshops, podcasts etc)

- The main task of the sub-committee is updating and curating the Allergen Nomenclature Database at www.allergen.org. From June 2023 to May 2024, 69 (up from 58 in the previous year's report) novel candidate allergens or novel isoallergens or variants of existing allergens were submitted by researchers and reviewed by members of the Sub-Committee sequences were submitted. 45 were accepted as new allergens. 13 were rejected. As of June 2nd, 2024, 5 have not responded to follow up communications and 6 were under review. The most common reason for a rejection was the lack of purified allergen; the second most common reason for rejection was too few positive sera. Most of the new allergens are from the mite *Blomia tropicalis*, although the clinical relevance is unclear. There were additional seafood and plant food allergens from seeds.
- The database was updated to correct the name of kiwifruit allergen Act c 1 to Act d 1 based on the updated taxonomy of kiwifruit species. Two variants in the database were discovered to have identical sequences and the names were consolidated. These were in Pru du 4, and Cup s 3.
- A new allergen submission page was created that includes a simplified (but still 14 pages long) new submission form. CR aims to create required fields for submitters to enforce the requirements for acceptance. The forms now also allows multiple routes of exposure. Requirements for submission are also summarized on the submission page. The carbohydrates epitope page was updated after the acceptance of the article by many members of this committee. www.allergen.org

Publications:

- ongoing manuscript from BACALL
- ongoing manuscript on novel allergens included in the database, 2022-2024
- meeting communications:
 - o Dr Rick E. Goodman, November 2023, IUIS meeting in Cape Town, South Africa
 - o Dr Christian Radauer, EAACI 2024
 - o Dr Geoff Mueller, Dr Christian Radauer, ISMA (International Symposium on Molecular Allergens) 2024, Helsinki, September 2024

Funds Provided for 2024:

(Please list overall amounts and each item that funds were to be spent on and their cost)

By IUIS: 5,000 USD for website updates and travel by SubCommittee leadership to allergen meetings on behalf of the Allergen Nomenclature SubCommittee

By other entities: EAACI 6350 euro for website update, member travels and/or publications; and 4350 euro for the BACALL Task Force travels and/or publications

Funds Spent in 2024:

EAACI: 10700 euros for website updates, travels, communications and manuscript preparations

IUIS: no spending prior to this report (to be confirmed)

Funds requested for 2025:

From IUIS: \$5,000 for website updates and for meeting expenses of the Sub-Committee. Joana Vitte will attend the AAAAI annual meeting in San Diego, February 2025 (France to US round trip) and Geoff Mueller will attend the EAACI annual meeting in Glasgow, June 2025 (US to UK round trip).

From EAACI: ongoing applications, we plan to apply for funding similar to 2024 but notifications are not expected earlier than December 2024

IMPORTANT REQUEST 2023: We would like to transfer residual funds in the University of Nebraska from transfers of two of the sponsoring associations (AAAAI and IUIS) to a KIT fund for the sub-Committee. Dr Richard Goodman started communications with KIT. The leadership of the Sub-Committee changed in January 2024 with Rick Goodman retiring as Co-Chair for Liaison and Joana Vitte taking his place, and Anna Pomés stepping aside and Geoff Mueller taking her place as Secretary.

Joana Vitte Co-Chair for Liaison of WHO/IUIS Allergen Nomenclature Sub-Committee

On behalf of the Allergen Subcommittee board

NOM Sub-Committee Annual Update for 2024

Sub-Committee Name: CD Molecule Nomenclature Sub-Committee

Co-Chairs: Menno van Zelm & Tomas Kalina

Current Members: Georgina Clark, Antonio Cosma, Hyun Dong, Pablo Engel, Paula Fernandez, Valter Gattei, Aja, Rieger, Hannes Stockinger, Laurence Bousmell

Affiliated societies &/or other organizations: [Human Cell Differentiation Molecules](#) organization

Mission:

The mission of this Sub-Committee is to characterize the structure, function and distribution of leucocyte-surface molecules, and other molecules, of the immune system.

Update:

Please describe *in brief* (preferably in bullet points) the work this Sub-Committee performed between November 2023 and now. Please include meetings held (with dates) and any actions taken, along with work products, such as website maintenance or manuscripts your Members published on behalf of the Sub-Committee.

Meetings (and actions taken):

Wet lab experiments for assignment of new CD markers in preparation of Human Leukocyte Differentiation Antigens (**HDLA**) workshop 11

- 14 new CD designations were assigned to GPR cell-surface molecules expressed on immune cells:
- CD198 (CCR8), CD199 (CCR9), CD372 (CCR10), CD373 (CXCR1), CD374 (XCR1), CD375 (GPR15), CDw376 (GPR26), CD377 (SSTR3), CD378 (C3AR1), CDw379 (FPR2), CD380 (LTB4R), CDw381 (GPR13), CDw382 (F2RL1) and CD383 (P2RX7).
- Publication and workshop in preparation

Work Products (publications, website updates, workshops, podcasts, etc.):

- Our website (hcdm.org) has had >10 million visits since 2016.
- NOM session at IUIS2023 in Cape Town
 - Redefining immune cell subsets by high-dimensional profiling: Potential & Pitfalls
 - Joachim Schultze (Germany)
 - Mapping the human immune system one cell at a time
 - Sarah Teichmann (UK)
 - Automated gating is no longer a dream...now let's transform science
 - Ryan Brinkman (Canada)
- Raised funding for specific projects in 2024:
 - 56,000 Euros from Biolegend, Thermo Fisher, BD, Biolegend, ExBio, Biotechne (R&D)

Plans for 2025

- Task definitions for new Board (established in 2023)
- Find dedicated time to:
 - Close and publish CDMaps project
 - Close and publish HLDA11 Workshop results
 - Develop educational lectures and develop more opportunities to reach the target public
 - Develop an online presence and tutorials
- Identify funding opportunities to
 - Create and publicly discuss the new system for antibody validation and benchmarking

Funds Provided for 2024:

(Please list overall amounts and each item that funds were to be spent on and their cost)

By IUIS: \$5000 *

By other entities: \$5000

* reimbursement request to follow in October 2024

Funds Spent in 2024:

(Please list overall amounts and break down each item and amount the funds were spent on)

CD Maps and HLDA11 reagents	\$3000
Travel support - lectures on CD nomenclature	\$3000
Personnel support (Prague)	\$1200
Web-redesign (AMCA)	\$2000
HCDM management (incl tax report)	\$1200
Total	\$10400

Funds Requested for 2025:

(Please explain what that funding would go toward, and if other entities, like associated societies, or other entities, will also be providing funds.)

From IUIS: \$5000

From other entities: \$8000

Justification for request:

CD Maps reagents	\$3000
Travel support - lectures on CD nomenclature	\$3000
HLDA11 and CD Maps interactive data visualization	\$2600
Personnel support (Prague)	\$1200
Web-redesign and maintenance (AMCA)	\$2000
HCDM management (incl tax report)	\$1200

NOM Sub-Committee Update for 2024

Sub-Committee Name: Complement Nomenclature Sub-Committee

Chair and Vice Chair (or Co-Chairs): Trent Woodruff

Current Members: Claudia Kemper, Anna Blom (Chair Elect), Zoltan Prohaszka, Ashley Fraser-Abel, Viviana Ferreira, Rafael Bayarri-Olmos, Christian Karsten, Ben King, Suzan Rooijackers, Anne Rosbjerg, Lubka Roumenina, Leendert Trouw, Wioleta Zelek

Affiliated societies &/or other organizations: International Complement Society (ICS)

Mission:

- The complement nomenclature is complex – specifically for newcomers to the field.
- The work of the Complement Nomenclature Sub-committee aims at moving towards a more unified nomenclature by resolving areas of ambiguity in current designations and integrating newly discovered complement genes/proteins in a logical manner.

Update:

Please describe *in brief* (preferably in bullet points) the work this Sub-Committee performed between November 2023 and now. Please include meetings held (with dates) and any actions taken, along with work products, such as website maintenance or manuscripts your Members published on behalf of the Sub-Committee.

Meetings (and actions taken):

- The Complement Nomenclature Sub-committee meets quarterly during the ICS Council meetings.
- Nomenclature-related issues are brought up as agenda point and solutions discussed.
- For the 2024 activity year, no issues were identified.
 - Meeting dates 2024:
 - *April 17th 2024*
 - *July 18th 2024*
 - *September 4 2024*
 - *December 2024, (exact date TBD)*
 -
- The ICS Senior Council recognises that a stand-alone nomenclature committee may be more pro-active as compared to an ICS Council-integrated committee.
 - On the other hand, it is difficult to recruit and engage knowledgeable members of the community with sufficient time and enthusiasm to take on this task.
 - The ICS Council has, thus, dedicated a substantial proportion of its December 2024 council meeting to discuss this.

Work Products (publications, website updates, workshops, podcasts, etc.):

- None

Funds Provided for 2024:

(Please list overall amounts and each item that funds were to be spent on and their cost)

By IUIS: None

By other entities:

Funds Spent in 2024:

(Please list overall amounts and break down each item and amount the funds were spent on)

IUIS funds: None.

Funds from other entities:

Funds Requested for 2025:

(Please explain what that funding would go toward, and if other entities, like associated societies, or other entities, will also be providing funds.)

From IUIS: None

From other entities:

NOM Sub-Committee Update for 2024

Sub-Committee Name: Killer-cell Immunoglobulin-like Receptor (KIR) Nomenclature

Chair and Vice Chair (or Co-Chairs): Steven Marsh

Current Members: Peter Parham, Bo Dupont, Derek Middleton, John Trowsdale, Dan Geraghty, Mary Carrington, Carlos Vilches

Affiliated societies &/or other organizations: the HLA Informatics Group of the Anthony Nolan Research Institute

Mission: To name allelic variants of KIR genes

Update:

Please describe *in brief* (preferably in bullet points) the work this Sub-Committee performed between November 2023 and now. Please include meetings held (with dates) and any actions taken, along with work products, such as website maintenance or manuscripts your Members published on behalf of the Sub-Committee.

Meetings (and actions taken): None for the past few years

Work Products (publications, website updates, workshops, podcasts, etc.):

- The Chair has NIH funding to maintain the IDP-KIR Database:
<https://www.ebi.ac.uk/ipd/kir/>
- In 2023 the Chair received a total of 749 submissions to the database. In 2024, an additional 11 submissions have been received so far.
- Currently, the KIR database consists of a total of 2,876 sequence submission, representing 2,228 KIR alleles

Funds Provided for 2024:

(Please list overall amounts and each item that funds were to be spent on and their cost)

By IUIS: None

By other entities: NIH grant

Funds Spent in 2024:

(Please list overall amounts and break down each item and amount the funds were spent on)

IUIS funds: None

Funds from other entities: NIH grant

Funds Requested for 2025:

(Please explain what that funding would go toward, and if other entities, like associated societies, or other entities, will also be providing funds.)

From IUIS: None

From other entities:

NOM Sub-Committee Update for 2024

Sub-Committee Name:

Chair and Vice Chair (or Co-Chairs):

Chair Ziegler-Heitbrock Loems

Vice-Chair to be elected

Current Members:

Ancuta	Petronela
Cassatella	Marco Antonio
Dalod	Marc
Dominguez	Javier
Ginhoux	Florent
Guilliams	Martin
Haniffa	Muzlifah
Hedrick	Lynn
Hume	David
Leenen	Pieter J. M.
van de Loosdrecht	Arjan A
Lutz	Manfred
Murphy	Kenneth M
Ohteki	Toshiaki
Scott*	Charlotte
Sozzani	Silvano
Teodosio	Cristina
Woollard	Kevin
Yona	Simon
Zhang	Liguo

*Representing EMDS

Affiliated societies &/or other organizations: [European Monocyte and Dendritic Cell Society \(EMDS\)](#)

Mission:

The purpose of the Monocyte and Dendritic Cell Nomenclature Sub-Committee is to evaluate, validate and name cells for these cell types.

Update:

- Throughout the year, there have been numerous 1 on 1 video exchanges, between Chair and individual Members covering specific topics. This culminated in the August conference call on 2024-08-29. Here, new developments and concepts regarding blood monocytes and dendritic cells and their precursors were covered. We have continued to update the living document „Report on the Nomenclature of Monocytes and Dendritic Cells in Blood”, which is the central document for nomenclature development.

Meetings (and actions taken):

36th Annual EMDS conference, Gent/Belgium 2023-10-18 to 20

MonoDC Sub-Committee Conference Call on 2024-08-29

Work Products (publications, website updates, workshops, podcasts, etc.):

MonoDC 2024 conference report, currently being circulated for approval by Members, to be uploaded to IUIS NOM website.

Funds Provided for 2024:

(Please list overall amounts and each item that funds were to be spent on and their cost)

By IUIS: 1.100 \$ for participation in EMDS conference Vienna **27-29.11.2024**

By other entities: 0

Funds Spent in 2024:

(Please list overall amounts and break down each item and amount the funds were spent on)

IUIS funds: none, as yet.

Funds from other entities:

Funds Requested for 2025:

(Please explain what that funding would go toward, and if other entities, like associated societies, or other entities, will also be providing funds.)

From IUIS: 1.200 \$ for participation at the annual EMDS conference, site still open

From other entities: 0

NOM Sub-Committee Update for 2024

Sub-Committee Name: T-cell Receptor and Immunoglobulin Gene Nomenclature Sub-Committee

Co-Chairs: Felix Breden, John Hammond

Current Members: Corey Watson, Jamie Scott, Deborah Dunn-Walters, Ramit Mehr, Sofia Kossida, Veronique Guidicelli, John Schwarz, Jean-Pol Fripiat, Eva Bengten, Salvatrice Ciccarese

Affiliated societies &/or other organizations:

Adaptive Immune Receptor Repertoire Community (AIRR-C) of The Antibody Society
IARC (Inferred Allele Review Committee) of AIRR-C

Mission:

The main goal of this Sub-Committee and the TR-IG Nomenclature Review Committee (**TR-IG NRC**), established by the Sub-Committee, is to evaluate and provide names for new genes and alleles of the TR and IG Loci.

Update:

Please describe *in brief* (preferably in bullet points) the work this Sub-Committee performed between November 2023 and now. Please include meetings held (with dates) and any actions taken, along with work products, such as website maintenance or manuscripts your Members published on behalf of the Sub-Committee.

Meetings (and actions taken):

T-cell Receptor and Immunoglobulin Nomenclature Sub-Committee:
February 19, 2023

- MH dropped from name of Sub-Committee, because MHC nomenclature has not been addressed by Sub-Committee for decades
- Review written responses from germline gene databases about TR-IG Nomenclature Review Committee's policies and procedures for evaluating TR and IG gene and allele names

July 11, 2023

- Adopted revised Terms of Reference
- Endorsed TR-IG Nomenclature Review Committee plan to develop registry of IUIS-approved TR and IG names of germline genes and alleles

T-Cell Receptor and Immunoglobulin Nomenclature Review Committee (TR-IG NRC):

Has met regularly (often weekly) to develop policies and procedures for evaluating names of TR and IG genes and alleles. The Review Committee has also spent a lot of time and effort documenting problems with new names for IG and TR genes and alleles published by IMGT.

Inferred Allele Review Committee:

Meets regularly (several times per month) to evaluate the inference of novel alleles from antibody/B-cell and T-cell receptor repertoires. Accepted alleles are curated in the Online Germline Receptor Database (OGRDB) and also sent to TR-IG NRC for IUIS approval.

Work Products (publications, website updates, workshops, podcasts, etc.):

Set of procedures and policies from TR-IG Nomenclature Review Committee for evaluating new TR and IG genes and alleles.

Funds Provided for 2024:

(Please list overall amounts and each item that funds were to be spent on and their cost)

By IUIS: 2000 US

By other entities:

Funds Spent in 2024:

(Please list overall amounts and break down each item and amount the funds were spent on)

IUIS funds: 0 US, but plan to spend the budgeted 2000 US on Workshop November 2024

Funds from other entities:

Funds Requested for 2025:

(Please explain what that funding would go toward, and if other entities, like associated societies, or other entities, will also be providing funds.)

From IUIS: \$10,000 US

From other entities: German immunology initiative (NFDI4Immuno) has committed to fund the major portion of the development of the Online Registry.

In the past, new IG and TR names were published as PDFs on the IUIS Sub-Committee Website or on the IMGT website. The increased volume of this sequence data, based on the application of high-throughput sequencing techniques, makes it critical that we provide an automated way to submit large files of new sequencing data to the TR-IG NRC for evaluation, and a modern Online Registry for displaying the IUIS-approved genes and alleles. The expanded number of databases that curate IG and TR genes and alleles will then be able to access this information and curate the new names in their databases. Funding from IUIS will be combined with significant funding promised by Dr. Christian Busse of DKFZ in Germany, the PI of the NFDI4Immuno initiative, to pay for a web developer to develop an Online Registry of the approved genes and alleles. This registry will contain only a minimum amount of data describing each entry, and thus will not replicate the efforts of the germline gene databases. This Online Registry will fulfill a major goal of the Sub-Committee, allow for integration of the multiple databases curating these germline genes, and re-establish the IUIS Committees as the international leader in evaluating sequences and establishing TR and IG nomenclature.