

Resource Summary Report

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Interagency Modeling and Analysis Group and Multi-scale Modeling Consortium Wiki

RRID:SCR_008046

Type: Tool

Proper Citation

Interagency Modeling and Analysis Group and Multi-scale Modeling Consortium Wiki
(RRID:SCR_008046)

Resource Information

URL: <http://www.imagwiki.nibib.nih.gov/>

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Description: Special interest group that brings together program officers who have a shared interest in applying modeling and analysis methods to biomedical systems. The meetings are formatted to facilitate an open discussion of what is currently being supported, and for planning future directions in these areas. At each meeting, time is allotted to hear focused presentations from one or two participants to discuss issues relating to modeling and analysis across the government agencies. Discussions also occur online, and participants are informed of talks, conferences and other activities of interest to the group. IMAG recognized that the modeling community is on the forefront of thinking across the biological continuum, rather than just focusing at one scale or level of resolution. In addition IMAG identified a strong desire among modelers to form multi-disciplinary partnerships across varied research communities. Overall Intent of IMAG through the MSM Consortium is: * To develop new methodologies that span across biological scales * To develop multiscale methodologies applicable to biomedical, biological and behavioral research * To develop methodologies within the local multidisciplinary team and within the larger Framework environment * To further promote multiscale modeling through model sharing This wiki contains information relevant to the IMAG (Interagency Modeling and Analysis Group) and the MSM (Multi-scale Modeling Consortium).

Abbreviations: IMAG

Synonyms: IMAG wiki, MSM wiki

Resource Type: group

Keywords: environment, analysis, behavioral, biological, biomedical, continuum, modeling, research, scale, system

Funding: NIBIB ;
NIH Blueprint for Neuroscience Research

Resource Name: Interagency Modeling and Analysis Group and Multi-scale Modeling Consortium Wiki

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Alternate IDs: nif-0000-10261

Record Creation Time: 20220129T080245+0000

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Ratings and Alerts

No rating or validation information has been found for Interagency Modeling and Analysis Group and Multi-scale Modeling Consortium Wiki.

No alerts have been found for Interagency Modeling and Analysis Group and Multi-scale Modeling Consortium Wiki.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Cremin M, et al. (2025) Substance P receptor signaling contributes to host maladaptive responses during enteric bacterial infection. Proceedings of the National Academy of Sciences of the United States of America, 122(7), e2415287122.

Giossi CE, et al. (2025) Synergistic effects of temperature and light on photoprotection in the model diatom *Phaeodactylum tricornutum*. Physiologia plantarum, 177(1), e70039.

Cremin M, et al. (2024) Substance P receptor signaling contributes to host maladaptive responses during enteric bacterial infection. bioRxiv : the preprint server for biology.

Cremin M, et al. (2023) TRPV1 controls innate immunity during *Citrobacter rodentium* enteric infection. PLoS pathogens, 19(12), e1011576.

Yang T, et al. (2023) Alpha-momorcharin preserves catalase activity to inhibit viral infection by disrupting the 2b-CAT interaction in *Solanum lycopersicum*. Molecular plant

pathology, 24(2), 107.

Cremin M, et al. (2023) TRPV1 controls innate immunity during *Citrobacter rodentium* enteric infection. *bioRxiv : the preprint server for biology*.

Dungan AM, et al. (2022) Exploring microbiome engineering as a strategy for improved thermal tolerance in *Exaerthys diaphana*. *Journal of applied microbiology*, 132(4), 2940.

Lin D, et al. (2022) SIMIR164A regulates fruit ripening and quality by controlling SINAM2 and SINAM3 in tomato. *Plant biotechnology journal*, 20(8), 1456.

Sun K, et al. (2021) Assessing Lexical Psychological Properties in Second Language Production: A Dynamic Semantic Similarity Approach. *Frontiers in psychology*, 12, 672243.

Viennois E, et al. (2020) Dietary Emulsifiers Directly Impact Adherent-Invasive *E. coli* Gene Expression to Drive Chronic Intestinal Inflammation. *Cell reports*, 33(1), 108229.

Lasrado N, et al. (2020) Identification of Immunogenic Epitopes That Permit the Detection of Antigen-Specific T Cell Responses in Multiple Serotypes of Group B Coxsackievirus Infections. *Viruses*, 12(3).

Wang F, et al. (2020) Crosstalk of PIF4 and DELLA modulates CBF transcript and hormone homeostasis in cold response in tomato. *Plant biotechnology journal*, 18(4), 1041.

Jang KJ, et al. (2015) Mitochondrial function provides instructive signals for activation-induced B-cell fates. *Nature communications*, 6, 6750.

Palsson S, et al. (2013) The development of a fully-integrated immune response model (FIRM) simulator of the immune response through integration of multiple subset models. *BMC systems biology*, 7, 95.

Varis A, et al. (2003) DNA copy number changes in young gastric cancer patients with special reference to chromosome 19. *British journal of cancer*, 88(12), 1914.