

## **BII – Gene Function Prediction Publications**

*\*\*(Publications sorted: Newest – Oldest)*

1.	<b>Eisenhaber B, Sinha S, Jadalanki CK, Shitov VA, Tan QW, Sirota FL, Eisenhaber F.</b> <a href="#">Conserved sequence motifs in human TMTC1, TMTC2, TMTC3, and TMTC4, new Omannosyltransferases from the GT-C/PMT clan, are rationalized as ligand binding sites.</a> Biology Direct 16, Article no 4, 2021, doi: 10.1186/s13062-021-00291-w
2.	<b>Su TTC, Sinha S, Eisenhaber B, Eisenhaber F.</b> <a href="#">Structural modelling of the luminal domain of human GPAA1, the metallo-peptide synthetase subunit of the transamidase complex, reveals zinc-binding mode and two flaps surrounding the active site.</a> Biology Direct, 15, Article number: 14 (2020), doi: 10.1186/s13062-020-00266-3
3.	<b>Goh F, Zhang MM, Lim TR, Low KN, Nge CE, Heng E, Yeo WL, Sirota FL, Crasta S, Tan Z, Ng V, Leong CY, Zhang H, Lezhava A, Chen SL, Hoon SS, Eisenhaber F, Eisenhaber B, Kanagasundaram Y, Wong FT, Ng SB</b> (2020). <a href="#">Identification and engineering of 32 membered antifungal macrolactone notonesomycins.</a> Microbial Cell Factories, 2020 Mar 19;19(1):71. doi: 10.1186/s12934-020-01328-x
4.	<b>Zhang Z, Yu J, Eisenhaber F, Gao X, Gojobori T.</b> (2019). <a href="#">In Memory of Vladimir B. Bajic (1952–2019).</a> Genomics Proteomics Bioinformatics. 2019 Dec 12, doi: 10.1016/j.gpb.2019.12.001
5.	<b>Toh YK, Shin J, Balakrishna AM, Kamariah N, Gruber A, Eisenhaber F, Eisenhaber B, Gruber G.</b> (2019). <a href="#">Effect of the additional cysteine 503 of vancomycin-resistant Enterococcus faecalis (V583) alkylhydroperoxide reductase subunit F (AhpF) and the mechanism of AhpF and subunit C assembling.</a> Free Radical Biology and Medicine, Vol. 138, July 2019, Pg 10-12, doi:10.1016/j.freeradbiomed.2019.04.036
6.	<b>Tantoso E, Wong WC, Tay WH, Lee J, Sinha S, Eisenhaber B, Eisenhaber F</b> (2019). <a href="#">Hypocrisy Around Medical Patient Data: Issues of Access for Biomedical Research, Data Quality, Usefulness for the Purpose and Omics Data as Game Changer.</a> Asian Bioethics Review, Jun 2019, Vol. 11, Issue 2, pg 189-207, doi: 10.1007/s41649-019-00085-3
7.	<b>Tay WH, Tantoso E, Eisenhaber F, Wong WC</b> (2019). <a href="#">Translational Informatics Management System (TIMS): Towards OMICS based clinical data management for long term curation of clinical studies.</a> Journal of Open Source Software, 2019, 4(40), 1533, DOI: 10.21105/joss.01533
8.	<b>Niska-Blakie J, Gopinathan L, Low KN, Yang LK, Goh CMF, Caldez MJ, Pfeiffenberger E, Jones OS, Ong CB, Kurochkin IV, Coppola V, Tessarollo L, Choi H, Kanagasundaram Y, Eisenhaber F, Maurer-Stroh S, Kaldis P</b> (2019). <a href="#">Knockout of the non-essential gene SUGCT creates diet-linked, age-related microbiome disbalance with a diabetes-like metabolic syndrome phenotype.</a> Cellular and Molecular Life Sciences, 2019 Nov 13, doi: 10.1007/s00018-019-03359-z
9.	<b>Sinha S, Nge CE, Leong CY, Ng V, Crasta S, Alfatah M, Goh F, Low KN, Zhang H, Arumugam P, Lezhava A, Chen SL, Yoganathan K, Ng SB, Eisenhaber F, Eisenhaber B.</b> (2019). <a href="#">Genomics-driven discovery of a biosynthetic gene cluster required for the synthesis of BII-Rafflesfungin from the fungus Phoma sp. F3723.</a> BMC Genomics 2019,

	20:374, doi: 10.1186/s12864-019-5762-6
10.	<b>Maurer-Stroh S, Krutz NL, Kern PS, Gunalan V, Nguyen MN, Limviphuvadh V, Eisenhaber F, Gerberick GF.</b> (2018). <a href="#">AllerCatPro – Prediction of protein allergenicity potential from the protein sequence</a> . <i>Bioinformatics</i> . 2019 Jan 18. doi: 10.1093/bioinformatics/btz029. [Epub ahead of print]
11.	<b>Berger KA, Pigott DM, Tomlinson F, Godding D, Maurer-Stroh S, Taye B, Sirota FL, Han A, Lee RTC, Gunalan V, Eisenhaber F, Hay SI, Russell CA.</b> (2018). <a href="#">The Geographic Variation of Surveillance and Zoonotic Spillover Potential of Influenza Viruses in Domestic Poultry and Swine</a> . <i>Open Forum Infect Dis</i> . 2018 Nov 27;5(12):ofy318. doi: 10.1093/ofid/ofy318. eCollection 2018 Dec.
12.	<b>Sinha S, Eisenhaber B, Jensen LJ, Kalbuaji B, Eisenhaber F.</b> (2018). <a href="#">Darkness in the Human Gene and Protein Function Space: Widely Modest or Absent Illumination by the Life Science Literature and the Trend for Fewer Protein Function Discoveries Since 2000</a> . <i>Proteomics</i> . 2018 Nov;18(21-22):e1800093. doi: 10.1002/pmic.201800093. Epub 2018 Oct 30.
13.	<b>Kamariah N, Eisenhaber B, Eisenhaber F, Grüber G.</b> (2018). <a href="#">Molecular mechanism of the Escherichia coli AhpC in the function of a chaperone under heat-shock conditions</a> . <i>Sci Rep</i> . 2018 Sep 20;8(1):14151. doi: 10.1038/s41598-018-32527-7.
14.	<b>Amit M, Na'ara S, Francis D, Matanis W, Zolotov S, Eisenhaber B, Eisenhaber F, Weiler Sagie M, Malkin L, Billan S, Charas T, Gil Z.</b> (2018). <a href="#">Post-translational Regulation of Radioactive Iodine Therapy Response in Papillary Thyroid Carcinoma</a> . <i>J Natl Cancer Inst</i> . 2017 Dec 1;109(12). doi: 10.1093/jnci/djx092.
15.	<b>Ng SB, Kanagasundaram Y, Fan H, Arumugam P, Eisenhaber B, Eisenhaber F.</b> (2018). <a href="#">The 160K Natural Organism Library, a unique resource for natural products research</a> . <i>Nat Biotechnol</i> . 2018 Jul 6;36(7):570-573. doi: 10.1038/nbt.4187.
16.	<b>Sirota FL, Goh F, Low KN, Yang LK, Crasta SC, Eisenhaber B, Eisenhaber F, Kanagasundaram Y, Ng SB.</b> (2018). <a href="#">Isolation and Identification of an Anthracimycin Analogue from Nocardiosis kunsanensis, a Halophile from a Saltern, by Genomic Mining Strategy</a> . <i>J Genomics</i> . 2018 May 21;6:63-73. doi: 10.7150/jgen.24368. eCollection 2018.
17.	<b>Eisenhaber B, Sinha S, Wong WC, Eisenhaber F.</b> (2018). <a href="#">Function of a membrane-embedded domain evolutionarily multiplied in the GPI lipid anchor pathway proteins PIG-B, PIG-M, PIG-U, PIG-W, PIG-V, and PIG-Z</a> . <i>Cell Cycle</i> . 2018;17(7):874-880. doi: 10.1080/15384101.2018.1456294. Epub 2018 May 15.
18.	<b>Limviphuvadh V, Tan CS, Konishi F, Jenjaroenpun P, Xiang JS, Kremenska Y, Mu YS, Syn N, Lee SC, Soo RA, Eisenhaber F, Maurer-Stroh S, Yong WP.</b> (2018). <a href="#">Discovering novel SNPs that are correlated with patient outcome in a Singaporean cancer patient cohort treated with gemcitabine-based chemotherapy</a> . <i>BMC Cancer</i> . 2018 May 11;18(1):555. doi: 10.1186/s12885-018-4471-x.
19.	<b>Kamariah N, Eisenhaber B, Eisenhaber F, Grüber G.</b> (2018). <a href="#">Active site Cp-loop dynamics modulate substrate binding, catalysis, oligomerization, stability, over-oxidation and recycling of 2-Cys Peroxiredoxins</a> . <i>Free Radic Biol Med</i> . 2018 Apr;118:59-70. doi: 10.1016/j.freeradbiomed.2018.02.027. Epub 2018 Feb 21.
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	<a href="#">transcript sequencing count distribution: its power-law correction necessarily precedes downstream normalization and comparative analysis</a> . Biol Direct. 2018 Feb 12;13(1):2. doi: 10.1186/s13062-018-0204-y.
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22.	<b>Marakasova ES, Eisenhaber B, Maurer-Stroh S, Eisenhaber F, Baranova A.</b> (2017). <a href="#">Prenylation of viral proteins by enzymes of the host: Virus-driven rationale for therapy with statins and FT/GGT1 inhibitors</a> . Bioessays. 2017 Oct;39(10). doi: 10.1002/bies.201700014. Epub 2017 Sep 8. Review.
23.	<b>Baker JA, Wong WC, Eisenhaber B, Warwicker J, Eisenhaber F.</b> (2017). <a href="#">Erratum to: Charged residues next to transmembrane regions revisited: "Positive-inside rule" is complemented by the "negative inside depletion/outside enrichment rule"</a> . BMC Biol. 2017 Aug 18;15(1):72. doi: 10.1186/s12915-017-0410-6. No abstract available.
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25.	<b>Taye B, Vaz C, Tanavde V, Kuznetsov VA, Eisenhaber F, Sugrue RJ, Maurer-Stroh S.</b> (2017). <a href="#">Benchmarking selected computational gene network growing tools in context of virus-host interactions</a> . Sci Rep. 2017 Jul 19;7(1):5805. doi: 10.1038/s41598-017-06020-6.
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