

Bioinformatics Institute Publications – 2019

** (Sorted by: Newest to Oldest publications in 2019)

1.	<i>Tan LK, Wong WY, Yang HT, Huber RG, Bond PJ, Ng LC, Maurer-Stroh S, Hapuarachchi HC.</i> Flavivirus Cross-Reactivity to Dengue Nonstructural Protein 1 Antigen Detection Assays. <i>Diagnostics</i> , Vol 10, Issue 1, doi: 10.3390/diagnostics10010011, PMID: 31878299
2.	Zhang Z, Yu J, Eisenhaber F, Gao X, Gojobori T. In Memory of Vladimir B. Bajic (1952–2019). <i>Genomics Proteomics Bioinformatics</i> . 2019 Dec 12, PMID: 31837468, doi: 10.1016/j.gpb.2019.12.001
3.	<i>Choi D, Sonkaria S, Fox SJ, Poudel S, Kim SY, Kang S, Kim S, Verma CS, Ahn SH, Lee CS, Khare V.</i> Quantum scale biomimicry of low dimensional growth: An unusual complex amorphous precursor route to TiO2 band confinement by shape adaptive biopolymer-like flexibility for energy applications. <i>Scientific Reports</i> 9, Article no 18721, 2019, doi: 10.1038/s41598-019-55103-z
4.	<i>Lama D, Verma CS.</i> Deciphering the mechanistic effects of eIF4E phosphorylation on mRNA-cap recognition. <i>Protein Science</i> , 2019, Pg 1-14, doi: 10.1002/pro.3798
5.	Krah A, Huber RG, Zachariae U, Bond PJ. On the ion coupling mechanism of the MATE transporter ClbM. <i>BBA - Biomembranes</i> , Vol. 1862, Issue 2, 1 Feb 2020, doi: 10.1016/j.bbamem.2019.183137, PMID: 31786188
6.	<i>Kannan S, Patridge AW, Lane DP, Verma CS.</i> The dual interactions of p53 with MDM2 and p300: Implications for the design of MDM2 Inhibitors. <i>International Journal of Molecular Sciences</i> , 2019, Vol. 20, Issue 23, doi: 10.3390/ijms20235996
7.	<i>Wendell SG, Fan H, Zhang C.</i> G Protein–Coupled Receptors in Asthma Therapy: Pharmacology and Drug Action <i>Pharmacological Reviews</i> , Vol. 72, Issue 1, 1 Jan 2020, doi: 10.1124/pr.118.016899
8.	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. Knockout of the non-essential gene SUGCT creates diet-linked, age-related microbiome disbalance with a diabetes-like metabolic syndrome phenotype. <i>Cellular and Molecular Life Sciences</i> , 2019 Nov 13, doi: 10.1007/s00018-019-03359-z, PMID: 31722069
9.	<i>Kalathiya U, Padariya M, Pawlicka K, Verma CS, Houston D, Hupp TR, Alfaro JA.</i> Insights into the Effects of Cancer Associated Mutations at the UPF2 and ATP-Binding Sites of NMD Regulator: UPF1. <i>International Journal of Molecular Sciences</i> , 2019, 20(22), 5644, doi:10.3390/ijms20225644, PMID: 31718065
10.	Ling WL, Ng YL, Wipat A, Lane DP, Gan SKE. The quantification of antibody elements and receptors subunit expression using qPCR: The design of VH, VL, CH, CL, FcR subunits primers for a more holistic view of the immune system. <i>Journal of Immunological Methods</i> , doi: 10.1016/j.jim.2019.112683

11.	<p>Wu D, Dou J, Chai X, Bellis C, Wilm A, Shih CC, Soon WWJ, Bertin N, Lin CB, Khor CC, DeGiorgio M, Cheng S, Bao L, Karnani N, Hwang WYK, Davila S, Tan P, Shabbir A, Moh A, Tan EK, Foo JN, Goh LL, Leong KP, Foo RSY, Lam CSP, Richards AM, Cheng CY, Aung T, Wong TY, Ng HH; SG10K Consortium, Liu J, Wang C, Maurer-Stroh S, Verma CS. Large-Scale Whole-Genome Sequencing of Three Diverse Asian Populations in Singapore. <i>Cell</i>, 2019. Oct 17, Vol. 179, Issue 3, Pg 736-749, doi: 10.1016/j.cell.2019.09.019, PMID: 31626772</p>
12.	<p>Han AX, Parker E, Maurer-Stroh S, Russell CA. Inferring putative transmission clusters with Phydely. <i>Virus Evolution</i>, Vol. 5, Issue 2, Jul, 2019, doi: 10.1093/ve/vez039, PMID: 31616568</p>
13.	<p>Kubankova M, Chambers J, Huber RG, Bond PJ, Marciniak S, Kuimova M. Linker length affects photostability of protein-targeted sensor of cellular microviscosity. <i>Methods and Applications in Fluorescence</i>, 2019 Sep 26. doi: 10.1088/2050-6120/ab481f, PMID: 31557750</p>
14.	<p>Sim WJ, Iyengar PV, Lama D, Kit LLS, Ng HC, Haviv-Shapira L, Domany E, Kappei D, Tan TZ, Saie A, Jaynes PW, Verma C, Kumar AP, Rouanne M, Ha HK, Radulescu C, Ten Dijke P, Eichhorn PJA, Thiery JP. c-Met activation leads to the establishment of a TGFβ-receptor regulatory network in bladder cancer progression. <i>PLOS Pathogens</i>, Sep 2019, Vol. 15, Issue 9, doi: 10.1371/journal.ppat.1007996, PMID: 31536610</p>
15.	<p>Lim XN, Shan C, Marzinek JK, Dong H, Ng TS, Ooi JSG, Fibriansah G, Wang J, Verma CS, Bond PJ, Shi PY, Lok SM. Molecular basis of dengue virus serotype 2 morphological switch from 29°C to 37°C. <i>Nature Communications volume 10, 2019, Article number: 4349 (2019)</i>, doi: 10.1038/s41467-019-12241-2</p>
16.	<p>Friedman KP, Gagne M, Loo LH, Karamertzanis P, Netzeva T, Sobanski T, Franzosa J, Richard A, Lougee R, Gissi A, Lee JJ, Angrish M, Dorne JL, Foster S, Raffaele K, Bahadori T, Gwinn M, Lambert J, Whelan M, Rasenberg M, Barton-Maclaren T, Thomas RS. Utility of In Vitro Bioactivity as a Lower Bound Estimate of In Vivo Adverse Effect Levels and in Risk-Based Prioritization. <i>Toxicological Sciences</i>, 2019, Sep 18, 10.1093/toxsci/kfz201, PMID: 31532525</p>
17.	<p>Chong CS, Kunze M, Hochreiter B, Krenn M, Berger J, Maurer-Stroh S. Rare Human Missense Variants can affect the Function of Disease-Relevant Proteins by Loss and Gain of Peroxisomal Targeting Motifs. <i>International Journal of Molecular Sciences</i>, Vol. 20, Issue 18, Sep 17, doi: 10.3390/ijms20184609, PMID: 31533369</p>
18.	<p>Bougen-Zhukov NM, Lee YY, Lee JJ, Lee P, Loo LH. PI3K Catalytic Subunits α and β Modulate Cell Death and IL-6 Secretion Induced by Talc Particles in Human Lung Carcinoma Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i>, 2019 Sep 12. doi: 10.1165/rcmb.2019-00500C, PMID: 31513749</p>
19.	<p>Mohanram H, Kumar A, Verma CS, Pervushin K, Miserez A. Three-dimensional structure of Megabalanus rosa Cement Protein 20 revealed by multi-dimensional NMR and molecular dynamics simulations. <i>Philosophical Transactions B</i>, 2019, doi: 10.1098/rstb.2019.0198</p>
20.	<p>Su TTC, Koh WSD, Gan SKE. Reviewing HIV-1 Gag Mutations in Protease Inhibitors Resistance: Insights for Possible Novel Gag Inhibitor Designs. <i>Molecules</i> 2019, Vol. 24, Issue 3243, https://doi.org/10.3390/molecules24183243</p>

21.	<i>Louis JM, Vaz C, Balaji A, Tanavde V, Talukdar I.</i> TNF-alpha regulates alternative splicing of genes participating in pathways of crucial metabolic syndromes; a transcriptome wide study. Cytokine 2019 Aug 30;125:154815. doi: 10.1016/j.cyto.2019.154815, PMID: 31476685
22.	<i>Dube N, Marzinek JK, Glen R, Bond PJ.</i> The structural basis for membrane assembly of immunoreceptor signalling complexes. Journal of Molecular Modeling, 2019 Aug 27;25(9):277. doi: 10.1007/s00894-019-4165-6, PMID: 31456056
23.	<i>Tan JL, Li F, Yeo JZ, Yong KJ, Bassal MA, Ng GH, Lee MY, Leong CY, Tan HK, Wu CS, Liu BH, Chan TH, Tan ZH, Chan YS, Wang S, Lim ZH, Toh TB, Hooi L, Low KN, Ma S, Kong NR, Stein AJ, Wu Y, Thangavelu MT, Suzuki A, Periyasamy G, Asara JM, Dan YY, Bonney GK, Chow EK, Lu GD, Ng HH, Kanagasundaram Y, Ng SB, Tam WL, Tenen DG, Chai L.</i> New High-Throughput Screening Identifies Compounds That Reduce Viability Specifically in Liver Cancer Cells That Express High Levels of SALL4 by Inhibiting Oxidative Phosphorylation. Gastroenterology, Dec 2019, Vol. 157, Issue 6, Pg 1615-1629, doi: 10.1053/j.gastro.2019.08.022, PMID: 31446059
24.	<i>Lee RTC, Chang HH, Russell CA, Lipsitch M, Maurer-Stroh S.</i> Influenza A Hemagglutinin Passage Bias Sites and Host Specificity Mutations. Cells 2019, Aug 22, 8(9), 958; doi: 10.3390/cells8090958, PMID: 31443542
25.	<i>Raghavan S, Chee S, Li J, Poschmann J, Nagarajan N, Siau JW, Verma C, Ghadessy F.</i> Development and application of a transcriptional sensor for detection of heterologous acrylic acid production in E. coli. Microbial Cell Factories, 2019, 18:139, doi: 10.1186/s1293
26.	<i>Barr IG, Deng YM, Grau ML, Han AX, Gilmour R, Irwin M, Markey P, Freeman K, Higgins G, Turra M, Komadina N, Peck H, Booy R, Maurer-Stroh S, Dhanasekaran V, Sullivan S.</i> Intense interseasonal influenza outbreaks, Australia, 2018/19. Eurosurveillance, Volume 24, Issue 33, 15 Aug 2019, DOI: 10.2807/1560-7917.ES.2019.24.33.1900421, PMID: 31431210
27.	<i>Koh XY, Koh XH, Hwang LA, Ferrer FJ, Rahmat SA, Lama D, Lane D.</i> Therapeutic anti-cancer activity of antibodies targeting sulfhydryl bond constrained epitopes on unglycosylated RON receptor tyrosinekinase. Oncogene 2019, doi: 10.1038/s41388-019-0946-8
28.	<i>Rock R, Mayrhofer J, Torres-Quesaa O, Enzler F, Raffener A, Raffener P, Feichtner A, Huber RG, Koide S, Taylor S, Troppmair J, Stefan E.</i> BRAF inhibitors promote intermediate BRAF(V600E) conformations and binary interactions with activated RAS. Science Advances, 14 Aug 2019, Vol. 5, no. 8, doi: 10.1126/sciadv.aav8463, PMID: 31453322
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31.	<i>Berezovsky I.</i> Towards descriptor of elementary functions for protein design. Current Opinion in Structural Biology, 2019, Vol 58, Pg 159-165. doi: 10.1016/j.sbi.2019.06.010, PMID: 31352188
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35.	<i>DuPai CD, McWhite CD, Smith CB, Garten R, Maurer-Stroh S, Wilke CO.</i> Influenza passaging annotations: what they tell us and why we should listen. <i>Virus Evolution</i> , Vol. 5, Issue 1, Jan 2019, doi: 10.1093/ve/vez016, PMID: 31275610
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39.	<i>Patridge A, Kaan HYK, Juang YC, Sadruddin A, Lim S, Brown C, Ng S, Thean D, Ferrer F, Johannes C, Yuen TY, Srinivasaraghavan K, Aronica A, Tan YS, Pradhan M, Verma C, Hochman J, Chen S, Wan H, Ha Sokhee, Sherborne B, Lane D, Sawyer T.</i> Incorporation of Putative Helix-Breaking Amino Acids in the Design of Novel Stapled Peptides: Exploring Biophysical and Cellular Permeability Properties. <i>Molecules</i> 2019, Vol. 24, Issue 12, 2292; https://doi.org/10.3390/molecules24122292
40.	<i>Charoenpattarapreeda J, Tan YS, Iegre J, Walsh S, Fowler E, Eapen R, Wu Y, Sore H, Verma C, Itzhaki L, Spring D.</i> Targeted covalent inhibitors of MDM2 using electrophile-bearing stapled peptides. <i>Chemical Communications</i> 2019 Jan 55 7914-7917 doi: 10.1039/C9CC04022F, PMID: 31225847
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