Yftah Tal-Gan

List of Publications by Year in Descending Order

48 papers	783 citations	16 h-index	26 g-index
52 ext. papers	979 ext. citations	5.3 avg, IF	4.61 L-index

#	Paper	IF	Citations
48	The origin and impact of bound water around intrinsically disordered proteins.. *Biophysical Journal*, **2022**,	2.9	3
47	Optimizing CSP1 analogs for modulating quorum sensing in with bulky, hydrophobic nonproteogenic amino acid substitutions.. *RSC Chemical Biology*, **2022**, 3, 301-311	3	0
46	Pharmacological Evaluation of Synthetic Dominant-Negative Peptides Derived from the Competence-Stimulating Peptide of .. *ACS Pharmacology and Translational Science*, **2022**, 5, 299-305	5.9	0
45	Elucidating the Role and Structure-Activity Relationships of the Competence-Stimulating Peptide. *ACS Chemical Biology*, **2021**,	4.9	2
44	Harnessing Multiple, Nonproteogenic Substitutions to Optimize CSP:ComD Hydrophobic Interactions in Group 1 Streptococcus pneumoniae. *ChemBioChem*, **2021**, 22, 1940-1947	3.8	1
43	Strategies to Attenuate the Competence Regulon in. *Peptide Science*, **2021**, 113, e24222	3	4
42	Secretion, Maturation, and Activity of a Quorum Sensing Peptide (GSP) Inducing Bacteriocin Transcription in Streptococcus gallolyticus. *MBio*, **2021**, 12,	7.8	5
41	Biological Evaluation of Native Streptococcal Competence Stimulating Peptides Reveal Potential Crosstalk Between and and a New Scaffold for the Development of Quorum Sensing Modulators. *RSC Chemical Biology*, **2020**, 1, 60-67	3	4
40	Designing cyclic competence-stimulating peptide (CSP) analogs with pan-group quorum-sensing inhibition activity in. *Proceedings of the National Academy of Sciences of the United States of America* , **2020**, 117, 1689-1699	11.5	15
39	Structure Activity Relationship Study of the XIP Quorum Sensing Pheromone in Reveal Inhibitors of the Competence Regulon. *ACS Chemical Biology*, **2020**, 15, 2833-2841	4.9	3
38	Attenuating the Selection of Vancomycin Resistance Among through the Development of Peptide-Based Vancomycin Antagonists. *ACS Infectious Diseases*, **2020**, 6, 2913-2925	5.5	1
37	Development and utilization of peptide-based quorum sensing modulators in Gram-positive bacteria. *Organic and Biomolecular Chemistry*, **2020**, 18, 7273-7290	3.9	13
36	Development of Streptococcus pneumoniae Pan-Group Quorum-Sensing Modulators. *ChemBioChem*, **2020**, 21, 340-345	3.8	7
35	Exploring the competence stimulating peptide (CSP) N-terminal requirements for effective ComD receptor activation in group1 Streptococcus pneumoniae. *Bioorganic Chemistry*, **2019**, 89, 102987	5.1	6
34	Deciphering bacterial signalling. *Nature Chemistry*, **2019**, 11, 398-399	17.6	3
33	Unveiling the Importance of Amide Protons in CSP:ComD Interactions in. *ACS Medicinal Chemistry Letters*, **2019**, 10, 880-886	4.3	4
32	N-Methylation of Amino Acids in Gelatinase Biosynthesis-Activating Pheromone Identifies Key Site for Stability Enhancement with Retention of the Enterococcus faecalis fsr Quorum Sensing Circuit Response. *ACS Infectious Diseases*, **2019**, 5, 1035-1041	5.5	4

31	Identification of highly potent competence stimulating peptide-based quorum sensing activators in Streptococcus mutans through the utilization of N-methyl and reverse alanine scanning. *Bioorganic and Medicinal Chemistry Letters*, **2019**, 29, 811-814	2.9	6
30	Identification of Streptococcus gallolyticus subsp. gallolyticus (Biotype I) Competence-Stimulating Peptide Pheromone. *Journal of Bacteriology*, **2018**, 200,	3.5	13
29	Structure-Activity Relationships of the Competence Stimulating Peptide in Streptococcus mutans Reveal Motifs Critical for Membrane Protease SepM Recognition and ComD Receptor Activation. *ACS Infectious Diseases*, **2018**, 4, 1385-1394	5.5	17
28	Defining the hydrophobic interactions that drive competence stimulating peptide (CSP)-ComD binding in. *Beilstein Journal of Organic Chemistry*, **2018**, 14, 1769-1777	2.5	9
27	Rational Design of Potent Activators and Inhibitors of the Enterococcus faecalis Fsr Quorum Sensing Circuit. *ACS Chemical Biology*, **2018**, 13, 2673-2681	4.9	10
26	Structural Characterization of Competence-Stimulating Peptide Analogues Reveals Key Features for ComD1 and ComD2 Receptor Binding in Streptococcus pneumoniae. *Biochemistry*, **2018**, 57, 5359-5369	3.2	14
25	Cyclic Peptides that Govern Signal Transduction Pathways: From Prokaryotes to Multi-Cellular Organisms. *Current Topics in Medicinal Chemistry*, **2018**, 18, 625-644	3	14
24	Conversion of Protein Active Regions into Peptidomimetic Therapeutic Leads Using Backbone Cyclization and Cycloscan - How to Do it Yourself!. *Current Topics in Medicinal Chemistry*, **2018**, 18, 556-565	3	10
23	Development of a Dominant Negative Competence-Stimulating Peptide (dnCSP) that Attenuates Streptococcus pneumoniae Infectivity in a Mouse Model of Acute Pneumonia. *ChemBioChem*, **2018**, 19, 2380-2386	3.8	16
22	Structure-Activity Relationships of the Competence Stimulating Peptides (CSPs) in Streptococcus pneumoniae Reveal Motifs Critical for Intra-group and Cross-group ComD Receptor Activation. *ACS Chemical Biology*, **2017**, 12, 1141-1151	4.9	28
21	An Entirely Solid Phase Peptide Synthesis-Based Strategy for Synthesis of Gelatinase Biosynthesis-Activating Pheromone (GBAP) Analogue Libraries: Investigating the Structure-Activity Relationships of the Enterococcus faecalis Quorum Sensing Signal. *Organic Letters*, **2017**, 19, 3295-3298	6.2	14
20	Simplified AIP-II Peptidomimetics Are Potent Inhibitors of Staphylococcus aureus AgrC Quorum Sensing Receptors. *ChemBioChem*, **2017**, 18, 413-423	3.8	27
19	Recent Advances in GLP-1 Receptor Agonists for Use in Diabetes Mellitus. *Drug Development Research*, **2017**, 78, 292-299	5.1	14
18	Structure-Function Analyses of a Staphylococcus epidermidis Autoinducing Peptide Reveals Motifs Critical for AgrC-type Receptor Modulation. *ACS Chemical Biology*, **2016**, 11, 1982-91	4.9	32
17	Characterization of structural elements in native autoinducing peptides and non-native analogues that permit the differential modulation of AgrC-type quorum sensing receptors in Staphylococcus aureus. *Organic and Biomolecular Chemistry*, **2016**, 14, 113-21	3.9	33
16	Highly Stable, Amide-Bridged Autoinducing Peptide Analogues that Strongly Inhibit the AgrC Quorum Sensing Receptor in Staphylococcus aureus. *Angewandte Chemie*, **2016**, 128, 9059-9063	3.6	10
15	Highly Stable, Amide-Bridged Autoinducing Peptide Analogues that Strongly Inhibit the AgrC Quorum Sensing Receptor in Staphylococcus aureus. *Angewandte Chemie - International Edition*, **2016**, 55, 8913-7	16.4	45
14	Nanoporous Superhydrophobic Coatings that Promote the Extended Release of Water-Labile Quorum Sensing Inhibitors and Enable Long-Term Modulation of Quorum Sensing in. *ACS Biomaterials Science and Engineering*, **2015**, 1, 1039-1049	5.5	35

13	N-Methyl and peptoid scans of an autoinducing peptide reveal new structural features required for inhibition and activation of AgrC quorum sensing receptors in Staphylococcus aureus. *Chemical Communications*, **2014**, 50, 3000-3	5.8	26
12	Surface coatings that promote rapid release of peptide-based AgrC inhibitors for attenuation of quorum sensing in Staphylococcus aureus. *Advanced Healthcare Materials*, **2014**, 3, 97-105	10.1	26
11	Backbone cyclic helix mimetic of chemokine (C-C motif) receptor 2: a rational approach for inhibiting dimerization of G protein-coupled receptors. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 3958-66	3.4	11
10	Highly potent inhibitors of quorum sensing in Staphylococcus aureus revealed through a systematic synthetic study of the group-III autoinducing peptide. *Journal of the American Chemical Society*, **2013**, 135, 7869-82	16.4	95
9	Structural characterization of native autoinducing peptides and abiotic analogues reveals key features essential for activation and inhibition of an AgrC quorum sensing receptor in Staphylococcus aureus. *Journal of the American Chemical Society*, **2013**, 135, 18436-44	16.4	35
8	Developing potent backbone cyclic peptides bearing the shared epitope sequence as rheumatoid arthritis drug-leads. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 493-6	2.9	16
7	Studying protein-peptide interactions using benzophenone units: a case study of protein kinase B/Akt and its inhibitor PTR6154. *Analytical Biochemistry*, **2012**, 421, 750-4	3.1	3
6	Chemical trapping of vancomycin: a potential strategy for preventing selection of vancomycin-resistant Enterococci. *Microbial Drug Resistance*, **2012**, 18, 109-15	2.9	2
5	Backbone cyclic peptide inhibitors of protein kinase B (PKB/Akt). *Journal of Medicinal Chemistry*, **2011**, 54, 5154-64	8.3	24
4	Metabolic stability of peptidomimetics: N-methyl and aza heptapeptide analogs of a PKB/Akt inhibitor. *Chemical Biology and Drug Design*, **2011**, 78, 887-92	2.9	15
3	Microwave-assisted solid-phase aza-peptide synthesis: aza scan of a PKB/Akt inhibitor using aza-arginine and aza-proline precursors. *Journal of Organic Chemistry*, **2011**, 76, 3078-85	4.2	51
2	Synthesis and structure-activity relationship studies of peptidomimetic PKB/Akt inhibitors: the significance of backbone interactions. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 2976-85	3.4	24
1	Novel method for the synthesis of urea backbone cyclic peptides using new Alloc-protected glycine building units. *Journal of Peptide Science*, **2010**, 16, 178-85	2.1	29