

h-index: 84 (>21,000 citations), Thomson Reuters Highly Cited Researcher

218. Ponath F, Zhu Y, Cosi V, **Vogel J** (2022)
New genetic tools enable dissection of a global stress response in the early-branching species Fusobacterium nucleatum
PNAS 119(40):e2201460119
217. Matera G, Altuvia Y, Gerovac M, El Mouali Y, Margalit H, **Vogel J** (2022)
Global RNA interactome of Salmonella discovers a 5'UTR sponge for the MicF small RNA that connects membrane permeability to transport capacity
Molecular Cell 82(3):629-644.e4
216. Popella L, Jakob J, Phuong Thao D, Hayward R, Barquist L, **Vogel J** (2022)
Comprehensive analysis of PNA-based antisense antibiotics targeting various essential genes in uropathogenic Escherichia coli
Nucleic Acids Research 50(11):6435-52
215. Hör J, Jung J, Đurica-Mitić S, Barquist, L, **Vogel J** (2022)
INRI-seq enables global cell-free analysis of translation initiation and off-target effects of antisense inhibitors
Nucleic Acids Research in press
214. Chihara K, Gerovac M, Hör J, **Vogel J** (2022)
Global profiling of the RNA and protein complexes of Escherichia coli by size exclusion chromatography followed by RNA sequencing and mass spectrometry (SEC-seq)
RNA in press
213. Schneider C, Erhard F, Binotti B, Buchberger A, **Vogel J**, Fischer U (2022)
An unusual mode of baseline translation adjusts cellular protein synthesis capacity to metabolic needs
Cell Reports 41(2):111467
212. Schuster EV, Epple MW, Glaser K, Mihlan M, Lucht K, Zimmermann JA, Bremser A, Polyzou A, Obier N, Cabezas-Wallscheid N, Trompouki E, Ballabio A, **Vogel J**, Buescher JM, Lämmermann T, Westermann AJ, Rambold AS (2022)
TFEB induces mitochondrial itaconate synthesis to suppress bacterial growth in macrophages
Nature Metabolism 4(7):856-866
211. Gomez-Raya-Vilanova M, Leskinen K, Bhattacharjee A, Virta P, Rosenqvist P, Smith J, Bayfield O, Homberger C, Kerinnes T, **Vogel J**, Pajunen M, Skurnik M (2022)
The DNA polymerase of bacteriophage YerA41 replicates its T-modified DNA in a primer-independent manner
Nucleic Acids Research 50(7):3985-3997
210. Yair Y, Michaux C, Biran D, Bernhard J, **Vogel J**, Barquist L, Ron E (2022)
Cellular RNA targets of cold shock proteins CspC and CspE and their importance for serum resistance in septicemic E. coli
mSystems 7(4):e0008622
209. Solar Venero EC, Matera G, Vogel J, López NI, Tribelli PM (2022)
Small RNAs in the Antarctic bacterium Pseudomonas extremaustralis involved in oxygen availability and oxidative stress responses
Environmental Microbiology Reports 14(4):604-615
208. Ponath F, Hör J, **Vogel J** (2022)
An overview of gene regulation in bacteria by small RNAs derived from mRNA 3' ends
FEMS Microbiology Reviews 46(5):fuac017
207. Homberger C, Barquist L, **Vogel J** (2022)
Ushering in a new era of single-cell transcriptomics in bacteria
microLife in press
206. Halloy F Biscans A, Bujold KE, Debacker A, Hill AC, Lacroix A, Luige O, Strömberg R, Sundstrom L, **Vogel J**, Ghidini A (2022)
Innovative developments and emerging technologies in RNA therapeutics
RNA Biology 19(1):313-332
205. Homberger H, Saliba AE, **Vogel J** (2022)
A MATQ-seq-Based Protocol for Single-Cell RNA-seq in Bacteria
Methods in Molecular Biology in press

204. Ponath F, Tawk C, Zhu Y, Barquist L, Faber F, **Vogel J** (2021)
RNA landscape of the emerging cancer-associated microbe Fusobacterium nucleatum
Nature Microbiology 6(8):1007-1020
203. Westermann AJ, **Vogel J** (2021)
Cross-species RNA-seq for deciphering host-microbe interactions
Nature Reviews Genetics 22(6):361-378
202. Santos SC, Bischler T, Westermann AJ, **Vogel J** (2021)
MAPS integrates overlooked regulation of actin-targeting effector SteC into the virulence control network of Salmonella small RNA PinT
Cell Reports 34(5):108722
201. Popella L, Jung J, Popova K, Đurica-Mitić S, Barquist L, **Vogel J** (2021)
Global RNA profiles show target selectivity and physiological effects of peptide-delivered antisense antibiotics
Nucleic Acids Research 49(8):4705-4724
200. El Mouali Y, Gerovac M, Mineikaitė R, **Vogel J** (2021)
In vivo targets of Salmonella FinO include a FinP-like small RNA controlling copy number of a cohabitating plasmid
Nucleic Acids Research 49(9):5319-5335
199. El Mouali Y, Ponath F, Scharrer V, Wenner N, Hinton JCD, **Vogel J** (2021)
Scanning mutagenesis of RNA-binding protein ProQ reveals a quality control role for the Lon protease
RNA 27(12):1512-1527
198. Gerovac M, Wicke L, Chihara K, Schneider C, Lavigne R, **Vogel J** (2021)
A Grad-seq view of RNA and protein complexes in Pseudomonas aeruginosa under standard and acteriophage predation conditions
mBio 12(1):e03454-20
197. Wicke L, Ponath F, Coppens L, Gerovac M, Lavigne R, **Vogel J** (2021)
Introducing Differential RNA-seq mapping to track the early infection phase for Pseudomonas phage φKZ
RNA Biology 18(8):1099-1110
196. Fuchs M, Lamm-Schmidt V, Sulzer S, Ponath F, Jenniches L, Kirk JA, Fagan RP, Barquist L, **Vogel J**, Faber F (2021)
An RNA-centric global view of C. difficile reveals broad activity of Hfq in a clinically important gram-positive bacterium
PNAS 118(25):e2103579118
195. Schmidt N, Lareau C, Keshishian H, Ganskih S, Schneider C, Hennig T, Melanson R, Werner S, Wei Y, Zimmer M, Ade J, Kirschner L, Zielinski S, Dölken L, Lander ES, Caliskan N, Fischer U, **Vogel J**, Carr S, Bodem J, Munschauer M (2021)
The SARS-CoV-2 RNA-protein interactome in infected human cells
Nature Microbiology 6(3):339-353
194. Lamm-Schmidt V, Fuchs M, Sulzer J, Gerovac M, Hör J, Dersch P, **Vogel J**, Faber F (2021)
Grad-seq identifies KhpB as a global RNA-binding protein in Clostridioides difficile that regulates toxin production
microLife in press
193. Md. Saiful Islam¹, Bandyra KJ, Chao Y, **Vogel J**, Luisi BF (2021)
Impact of pseudo-uridylation, substrate fold and degradosome organization on the endonuclease activity of RNase E
RNA 27(11):1339-1352
192. Fulde M, van Vorst K, Zhang K, Westermann AJ, Busche T, Huei YC, Welitschanski K, Froh I, Pägelow D, Johanna Plend, Pfarrer C, Kalinowski J, **Vogel J**, Weigand PV, Hensel M, Tedin K, Repnik U, Hornef MW (2021)
SPI2 T3SS effectors facilitate enterocyte apical to basolateral transmigration of Salmonella containing vacuoles in vivo
Gut Microbes 13(1):1973836
191. Bernhardt L, Dittrich M, El-Merahbi R, Saliba AE, Müller T, Sumara G, **Vogel J**, Nichols-Burns S, Mitchell, Haaf T, El Hajj N (2021)
A genome-wide transcriptomic analysis of embryos fathered by obese males in a murine model of diet-induced obesity
Scientific Reports 11(1):1979

190. Gerovac M, **Vogel J**, Smirnov A (2021)
The world of stable ribonucleoproteins and its mapping with Grad-seq and related approaches
Frontiers in Molecular Biosciences 8:661448
189. Hör J, **Vogel J** (2021)
Analysis of the RNA and Protein Complexome by Grad-seq
Methods in Molecular Biology 2300:183-201
- 2020**
188. Imdahl F, Vafadarnejad E, Homberger C, Saliba AE, **Vogel J** (2020)
Single-cell RNA-seq reports growth condition-specific global transcriptomes of individual bacteria
Nature Microbiology 5(10):1202-1206
187. Hör J, Garriss G, Di Giorgio S, Hack LM, Vanselow JT, Förstner KU, Schlosser A, Henriques-Normark B, **Vogel J** (2020)
Grad-seq in a Gram-positive bacterium reveals exonucleolytic sRNA activation in competence control
EMBO J 39(9):e103852
186. Hör J, Di Giorgio S, Gerovac M, Venturini E, Förstner KU, **Vogel J** (2020)
Grad-seq shines light on unrecognized RNA and protein complexes in the model bacterium Escherichia coli
Nucleic Acids Research 48(16):9301-9319
185. Wang C, Chao Y, Matera G, Gao Q, **Vogel J** (2020)
The conserved 3' UTR-derived small RNA NarS mediates mRNA crossregulation during nitrate respiration
Nucleic Acids Research 48(4):2126-2143
184. Gerovac M, El Mouali Y, Kuper J, Kisker C, Barquist L, **Vogel J** (2020)
Global discovery of bacterial RNA-binding proteins by RNase-sensitive gradient profiles reports a new FinO domain protein
RNA 26(10):1448-1463
183. Prezza G, Heckel T, Dietrich S, Homberger C, Westermann AJ, **Vogel J** (2020)
Improved bacterial RNA-seq by Cas9-based depletion of ribosomal RNA reads
RNA 26(8):1069-1078
182. Venturini E, Svensson SL, Maaß S, Gelhausen R, Eggenhofer F, Li L, Cain AK, Parkhill J, Becher D, Backofen R, Barquist L, Sharma CM, Westermann AJ, **Vogel J** (2020)
A global data-driven census of Salmonella small proteins and their potential functions in bacterial virulence
microLife 1:uqaa002
181. Michaux C, Hansen EE, Jenniches L, Gerovac M, Barquist B, **Vogel J**, (2020)
Single-nucleotide RNA maps for the two major nosocomial pathogens Enterococcus faecalis and Enterococcus faecium
Frontiers in Cellular & Infection Microbiology 10:600325
180. Bauriedl S, Gerovac M, Heidrich N, Bischler T, Barquist L, **Vogel J**, Schoen C (2020)
The minimal meningococcal ProQ protein has an intrinsic capacity for structure-based global RNA recognition
Nature Communications 11(1):2823
179. Mika-Gospodorz B, Giengkam S, Westermann AJ, Wongsantichon J, Kion-Crosby W, Chuenklin S, Wang LC, Sunyakumthorn P, Sobota RM, Subbian S, **Vogel J**, Barquist L, Salje J (2020)
Dual RNA-seq of Orientia tsutsugamushi informs on host-pathogen interactions for this neglected intracellular human pathogen
Nature Communications 11(1):3363
178. Parhi L, Alon-Maimon T, Sol A, Nejman D, Shhadeh A, Fainsod-Levi T, Yajuk O, Isaacson B, Abed J, Maalouf N, Nissan A, Sandbank J, Yehuda-Shnaidman E, Ponath F, **Vogel J**, Mandelboim O, Granot Z, Straussman R, Bachrach G (2020)
Breast cancer colonization by Fusobacterium nucleatum accelerates tumor growth and metastatic progression
Nature Communications 11(1):3259
177. Chumduri C, Gurumurthy RK, Berger H, Dietrich O, Kumar N, Koster S, Brinkmann V, Hoffmann K, Drabkina M, Arampatzi P, Son D, Klemm U, Mollenkopf HJ, Herbst H, Mangler M, **Vogel J**, Saliba AE, Meyer TF (2020)
Opposing Wnt signals regulate cervical squamocolumnar homeostasis and emergence of metaplasia
Nature Cell Biology 23(2):184-197

176. Schulte LN, Schweinlin M, Westermann AJ, Janga H, Santos SC, Appenzeller S, Walles H, **Vogel J**, Metzger M (2020)
An advanced human intestinal co-culture model reveals compartmentalized host and pathogen strategies during Salmonella infection
mBio 11(1) e03348-19
175. Seelbinder B, Wallstabe J, Marischen L, Weiss E, Wurster S, Page L, Löffler C, Bussemer L, Schmitt AL, Wolf T, Linde J, Cicin-Sain L, Becker J, Kalinke U, **Vogel J**, Panagiotou G, Einsele H, Westermann AJ, Schäuble S, Loeffler J (2020)
Triple RNA-seq reveals synergy in a human virus-fungus co-infection model
Cell Reports 33(7):108389
174. Hennessen F, Miethke M, Zaburanyi N, Loose M, Lukežič T, Bernecker S, Hüttel S, Jansen R, Schmiedel J, Fritzenwanker M, Imirzalioglu C, **Vogel J**, Westermann AJ, Hestekamp T, Stadler M, Wagenlehner F, Petković H, Herrmann J, Müller R (2020)
Amidochelocardin overcomes resistance mechanisms exerted on tetracyclines and natural chelocardin
Antibiotics 9(9):619
173. Hollenhorst MI, Jurastow I, Nandigama R, Appenzeller S, Li L, **Vogel J**, Wiederhold S, Althaus M, Empting M, Altmüller J, Hirsch AKH, Flockerzi V, Canning BJ, Saliba AE, Krasteva-Christ G (2020)
Tracheal brush cells release acetylcholine in response to bitter tastants for paracrine and autocrine signaling
FASEB Journal 34:316–332
172. **Vogel J** (2020)
An RNA biology perspective on species-specific programmable RNA antibiotics
Molecular Microbiology 113(3):550-559
171. Hör J, Matera G, **Vogel J**, Gottesman S, Storz G (2020)
Trans-acting small RNAs and their effects on gene expression in Escherichia coli and Salmonella enterica
EcoSal 9(1):10.1128/ecosalplus.ESP-0030-2019
170. Schulte-Schrepping J, Reusch N, Paclik D, Baßler K, Schlickeiser S, Zhang B, Krämer B, Krammer T, Brumhard S, Bonaguro L, De Domenico E, Wendisch D, Grasshoff M, Kapellos TS, Beckstette M, Pecht T, Saglam A, Dietrich O, Mei HE, Schulz AR, Conrad C, Kunkel D, Vafadamejad E, Xu CJ, Horne A, Herbert M, Drews A, Thibeault C, Pfeiffer M, Hippenstiel S, Hocke A, Müller-Redetzky H, Heim KM, Machleidt F, Uhrig A, Bosquillon de Jarcy L, Jürgens L, Stegemann M, Glösenkamp CR, Volk HD, Goffinet C, Landthaler M, Wyler E, Georg P, Schneider M, Dang-Heine C, Neuwinger N, Kappert K, Tauber R, Corman V, Raabe J, Kaiser KM, Vinh MT, Rieke G, Meisel C, Ulas T, Becker M, Geffers R, Witzenthalm M, Drosten C, Suttrop N, von Kalle C, Kurth F, Händler K, Schultze JL, Aschenbrenner AC, Li Y, Nattermann J, Sawitzki B, Saliba AE, Sander LE; Deutsche COVID-19 OMICS Initiative, DeCOI (2020)
Severe COVID-19 Is Marked by a Dysregulated Myeloid Cell Compartment.
Cell 182(6):1419-1440 (co-author as member of DeCOI)
169. Rajewsky N, Almouzni G, Gorski SA, Aerts S, Amit I, Bertero MG, Bock C, Bredenoord AL, Cavalli G, Chiocca S, Clevers H, De Strooper B, Eggert A, Ellenberg J, Fernández XM, Figlerowicz M, Gasser SM, Hubner N, Kjems J, Knoblich JA, Krabbe G, Lichter P, Linnarsson S, Marine JC, Marioni J, Marti-Renom MA, Netea MG, Nickel D, Nollmann M, Novak HR, Parkinson H, Piccolo S, Pinheiro I, Pombo A, Popp C, Reik W, Roman-Roman S, Rosenstiel P, Schultze JL, Stegle O, Tanay A, Testa G, Thanos D, Theis FJ, Torres-Padilla ME, Valencia A, Vallot C, van Oudenaarden A, Vidal M, Voet T & LifeTime Community (2020)
LifeTime and improving European healthcare through cell-based interceptive medicine
Nature 587(7834):377-386 (co-author as member of LifeTime)
- 2019**
168. Miyakoshi M, Matera G, Maki K, Sone Y, **Vogel J** (2019)
Functional expansion of a TCA cycle operon mRNA by a 3' end-derived small RNA
Nucleic Acids Research 47(4):2075-2088
167. Westermann AJ, Venturini E, Sellin ME, Förstner KU, Hardt WD, **Vogel J** (2019)
The major RNA-binding protein ProQ impacts virulence gene expression in Salmonella Typhimurium
mBio 10(1) pii:e02504-18
166. Chihara K, Bischler T, Barquist L, Monzon V, Noda N, **Vogel J**, Tsuneda S (2019)
Conditional Hfq association with small non-coding RNAs in Pseudomonas aeruginosa revealed through comparative UV crosslinking immunoprecipitation followed by high-throughput sequencing
mSystems 4(6). pii: e00590-19

165. Heidrich N, Hagmann A, Bauriedl S, **Vogel J**, Schoen C (2019)
The CRISPR/Cas system in Neisseria meningitidis affects bacterial adhesion to human nasopharyngeal epithelial cells
RNA Biology 16(4):390-396

164. Gerovac M, **Vogel J** (2019)
An RNA surprise in bacterial effector mechanisms
Cell Host & Microbe 26(6):709-711

2018

163. Stapels DAC, Hill PWS, Westermann AJ, Fisher R, Thurston TL, Saliba AE, Blommestein I, **Vogel J**, Helaine S (2018)
Salmonella persists undermine host immune defences during antibiotic treatment
Science 362(6419):1156-1160

162. Holmqvist E, Li L, Bischler T, Barquist L, **Vogel J** (2018)
Global maps of ProQ binding in vivo reveal target recognition via RNA structure and stability control at mRNA 3' ends
Molecular Cell 70(5):971-982

161. Müller L, Cosentino R, Förstner KU, Guizetti J, Wedel C, Kaplan N, Janzen C, Arampatzi P, **Vogel J**, Steinbiss S, Otto T, Saliba AE, Sebra R, Siegel TN (2018)
Genome organization and DNA accessibility control antigenic variation in trypanosomes
Nature 563(7729):121-125

160. Tawk C, Nigro G, Lopes I, Aguilar C, Lisowski C, Mano M, Sansonetti P, **Vogel J**, Eulalio A (2018)
Stress-induced host membrane remodeling protects from infection by non-motile bacterial pathogens
EMBO Journal 37(23) pii: e98529

159. El Mouali Y, Gaviria-Cantin T, Sánchez-Romero MA, Gibert M, Westermann AJ, **Vogel J**, Balsalobre C (2018)
CRP-cAMP mediates silencing of Salmonella virulence at the post-transcriptional level
PLoS Genetics 14(6):e100740

158. Yu SH, **Vogel J**, Förstner KU (2018)
ANNOgesic: a Swiss army knife for the RNA-seq based annotation of bacterial/archaeal genomes
Gigascience 7(9) giy096

157. Holmqvist E, **Vogel J** (2018)
RNA-binding proteins in bacteria
Nature Reviews Microbiology 6(10):601-615

156. Hör J, Gorski SA, **Vogel J** (2018)
Bacterial RNA biology on a genome scale
Molecular Cell 70(5):785-799

155. Munschauer M, **Vogel J** (2018)
Nuclear lncRNA stabilization in the host response to bacterial infection
EMBO Journal 37(13) pii:e99875

154. Westermann AJ, **Vogel J** (2018)
Host-pathogen transcriptomics by Dual RNA-seq
Methods in Molecular Biology 1737:59-75

2017

153. Michaux C, Holmqvist E, Vasicek E, Sharan M, Barquist L, Westermann AJ, Gunn JS, **Vogel J** (2017)
RNA target profiles direct the discovery of virulence functions for the cold shock proteins CspC and CspE
PNAS 114(26):6824-6829

152. Chao Y, Li L, Girodat D, Förstner KU, Said N, Corcoran C, Śmiga M, Papenfort K, Reinhardt R, Wieden HJ, Luisi BF, **Vogel J** (2017)
In vivo cleavage map illuminates the central role of RNase E in coding and noncoding RNA pathways
Molecular Cell 65(1):39-51

151. Smirnov A, Wang C, Drewry LL, **Vogel J** (2017)
Molecular mechanism of mRNA repression in trans by a ProQ-dependent small RNA
EMBO Journal 36(8):1029-1045
150. Saliba AE, Li L, Westermann AJ, Appenzeller S, Stapels DAC, Schulte LN, Helaine S, **Vogel J** (2017)
Single cell RNA-seq ties macrophage polarization to growth rate of intracellular Salmonella
Nature Microbiology 2:16206
149. Heidrich N, Bauriedl S, Barquist L, Li L, Schoen S, **Vogel J** (2017)
The primary transcriptome of Neisseria meningitidis and its interaction with the RNA chaperone Hfq
Nucleic Acids Research 45(10):6147-6167
148. Sharan M, Förstner KU, Eulalio A, **Vogel J** (2017)
APRICOT: an integrated computational pipeline for the sequence-based identification and characterization of RNA-binding proteins
Nucleic Acids Research 45(11):e96
147. Tawk C, Sharan M, Eulalio A, **Vogel J** (2017)
A systematic analysis of the RNA-targeting potential of secreted bacterial effector proteins
Scientific Reports 7(1):9328
146. Gonzalez GM, Hardwick SW, Maslen SL, Skehel JM, Holmqvist E, **Vogel J**, Bateman A, Luisi BF, Broadhurst RW (2017)
Structure of the Escherichia coli ProQ RNA binding protein
RNA 23(5):696-711
145. Hör J, **Vogel J** (2017)
Global snapshots of bacterial RNA networks
EMBO Journal 36(3):245-247
144. Gorski SA, **Vogel J**, Doudna JA (2017)
RNA-based Recognition and targeting: Sowing the seeds of specificity
Nature Reviews Molecular Cell Biology 18(4):215-228
143. Westermann AJ, Barquist L, **Vogel J** (2017)
Resolving host-pathogen interactions by Dual RNA-seq
PLoS Pathogens 13(2):e1006033
142. Smirnov A, Schneider C, Hör J, **Vogel J** (2017)
Discovery of new RNA classes and global RNA-binding proteins
Current Opinion in Microbiology 39:152-160
141. Saliba AE, Santos SC, **Vogel J** (2017)
New RNA-seq approaches for the study of bacterial pathogens
Current Opinion in Microbiology 35:78-87
- 2016**
140. Westermann AJ, Förstner KU, Amman F, Barquist L, Chao Y, Schulte LN, Müller L, Reinhardt R, Stadler PF, **Vogel J** (2016)
Dual RNA-seq unveils noncoding RNA functions in host-pathogen interactions
Nature 529:496-501
139. Smirnov A, Förstner KU, Holmqvist E, Otto A, Günster R, Becher D, Reinhardt R, **Vogel J** (2016)
Grad-seq guides the discovery of ProQ as a major small RNA binding protein
PNAS 113(41):11591-6
138. Holmqvist E, Wright PR, Li L, Bischler T, Barquist L, Reinhardt R, Backofen R, **Vogel J** (2016)
Global RNA recognition patterns of post-transcriptional regulators Hfq and CsrA revealed by UV crosslinking in vivo
EMBO Journal 35(9):991-1011
137. Chao Y, **Vogel J** (2016)
A 3'UTR derived small RNA provides the regulatory noncoding arm of the inner membrane stress response
Molecular Cell 61:352-363

136. Fröhlich KS, Haneke K, Papenfort K, **Vogel J** (2016)
The target spectrum of SdsR small RNA in Salmonella
Nucleic Acids Research 44(21): 10406-22
135. Jiang Y, Oron TR, Clark WT, Bankapur AR, D'Andrea D, Lepore R, Funk CS, Kahanda I, Verspoor KM, Ben-Hur A, Koo da CE, Penfold-Brown D, Shasha D, Youngs N, Bonneau R, Lin A, Sahraeian SM, Martelli PL, Profiti G, Casadio R, Cao R, Zhong Z, Cheng J, Altenhoff A, Skunca N, Dessimoz C, Dogan T, Hakala K, Kaewphan S, Mehryary F, Salakoski T, Ginter F, Fang H, Smithers B, Oates M, Gough J, Törönen P, Koskinen P, Holm L, Chen CT, Hsu WL, Bryson K, Cozzetto D, Minnici F, Jones DT, Chapman S, Bkc D, Khan IK, Kihara D, Ofer D, Rappoport N, Stern A, Cibrian-Uhalte E, Denny P, Foulger RE, Hieta R, Legge D, Lovering RC, Magrane M, Melidoni AN, Mutowo-Muullenet P, Pichler K, Shypitsyna A, Li B, Zakeri P, ElShal S, Tranchevent LC, Das S, Dawson NL, Lee D, Lees JG, Sillitoe I, Bhat P, Nepusz T, Romero AE, Sasidharan R, Yang H, Paccanaro A, Gillis J, Sedeño-Cortés AE, Pavlidis P, Feng S, Cejuela JM, Goldberg T, Hamp T, Richter L, Salamov A, Gabaldon T, Marcet-Houben M, Supek F, Gong Q, Ning W, Zhou Y, Tian W, Falda M, Fontana P, Lavezzo E, Toppo S, Ferrari C, Giollo M, Piovesan D, Tosatto SC, Del Pozo A, Fernández JM, Maietta P, Valencia A, Tress ML, Benso A, Di Carlo S, Politano G, Savino A, Rehman HU, Re M, Mesiti M, Valentini G, Bargsten JW, van Dijk AD, Gemovic B, Glisic S, Perovic V, Veljkovic V, Veljkovic N, Almeida-E-Silva DC, Vencio RZ, Sharan M, **Vogel J**, Kansakar L, Zhang S, Vucetic S, Wang Z, Sternberg MJ, Wass MN, Huntley RP, Martin MJ, O'Donovan C, Robinson PN, Moreau Y, Tramontano A, Babbitt PC, Brenner SE, Linial M, Orengo CA, Rost B, Greene CS, Mooney SD, Friedberg I, Radivojac P (2016)
An expanded evaluation of protein function prediction methods shows an improvement in accuracy
Genome Biology 17(1):184
134. Das S, Lindemann C, Young BC, Muller J, Österreich B, Ternette N, Winkler AC, Paprotka K, Reinhardt R, Förstner KU, Allen E, Flaxman A, Yamaguchi Y, Rollier CS, van Diemen P, Blättner S, Remmele CW, Selle M, Dittrich M, Mueller T, **Vogel J**, Ohlsen K, Crook DW, Massey R, Wilson DJ, Rudel R, Wyllie DH, Fraunholz MJ (2016)
Natural mutations in a S. aureus virulence regulator attenuate cytotoxicity but permit bacteremia and abscess formation
PNAS 113(22):E3101–E3110
133. Hershko-Shalev T, Odenheimer-Bergman A, Elgrably-Weiss M, Ben-Zvi T, Govindarajan S, Seri H, Papenfort K, **Vogel J**, Altuvia S (2016)
Gifsy-1 prophage IsrK with dual function as small and messenger RNA modulates vital bacterial machineries
PLoS Genetics 12(4):e1005975
132. Müller AA, Dolowschiak T, Sellin ME, Felmy B, Verbree C, Gadiant S, Westermann AJ, **Vogel J**, LeibundGut-Landmann S, Hardt WD (2016)
An NK cell perforin response elicited via IL-18 controls mucosal inflammation kinetics during Salmonella gut infection
PLoS Pathogens 12(6):e1005723
131. Berger P, Knödler M, Förstner KF, Berger M, Bertling C, Sharma CM, **Vogel J**, Karch H, Dobrindt U, Mellmann A (2016)
The primary transcriptome of the E. coli O104:H4 pAA plasmid and novel insights into its virulence gene expression and regulation
Scientific Reports 6:35307
130. Cao Y, Förstner KU, **Vogel J**, Smith J (2016)
Cis-encoded sRNAs, a conserved mechanism for repression of polysaccharide utilization in the Bacteroides
Journal of Bacteriology 198(18):2410-8
129. Barquist L, Westermann AJ, **Vogel J** (2016)
Molecular phenotyping of infection-associated small noncoding RNAs
Philosophical Transactions B 371(1707):20160081
128. Marbaniang CM, **Vogel J** (2016)
Emerging roles of RNA modifications in bacteria
Current Opinion Microbiology 30:50-57
- 2015**
127. Papenfort K, Espinosa E, Casadesús J, **Vogel J** (2015)
Small RNA-based feed-forward loop with AND-gate logic regulates extrachromosomal DNA transfer in Salmonella
PNAS 112(34):E4772-81
126. Miyakoshi M, Chao Y, **Vogel J** (2015)
Crosstalk between ABC transporter mRNAs via a target mRNA-derived sponge of the GcvB small RNA
EMBO Journal 34(11):1478-92
125. Heidrich N, Dugar G, **Vogel J**, Sharma CM (2014)
Investigating CRISPR RNA biogenesis and function using RNA-seq
Methods in Molecular Biology 1311:1-21

124. Sass A, Van Acker H, Förstner KU, Van Nieuwerburgh F, Deforce D, **Vogel J**, Coenye T (2015)
Genome-wide transcription start site profiling in biofilm-grown Burkholderia cenocepacia J2315
BMC Genomics 16(1):775
123. Afonso-Grunz F, Hoffmeier K, Müller S, Westermann AJ, Rotter B, **Vogel J**, Winter P, Kahl G (2015)
Dual 3'Seq using deepSuperSAGE uncovers transcriptomes of interacting Salmonella enterica Typhimurium and human host cells
BMC Genomics 16(1):323
122. Fan B, Li L, Chao Y, Jiang CL, Förstner KU, **Vogel J**, Borriss B, Wu XQ (2015)
dRNA-seq reveals genomewide TSSs and noncoding RNAs of plant beneficial rhizobacterium Bacillus amyloliquefaciens FZB42
PLoS One 10(11):e0142002
121. Ziebuhr W, **Vogel J** (2015)
The end is not the end: remnants of tRNA precursors live on to sponge up small regulatory RNAs
Molecular Cell 58(3):389-90
120. Barquist L, **Vogel J** (2015)
Accelerating discovery and functional analysis of small RNAs with new technologies
Annual Review of Genetics 49:367-94
119. Miyakoshi M, Chao Y, **Vogel J** (2015)
Regulatory small RNAs from the 3' regions of bacterial mRNAs
Current Opinion in Microbiology 24:132-139

2014

118. **Vogel J** (2014)
A bacterial seek-and-destroy system for foreign DNA
Science 344(6187):972-3
117. Dimastrogiovanni D, Fröhlich KS, Bandyra KJ, Bruce HA, Hohensee S, **Vogel J**, Luisi BF (2014)
Recognition of the small regulatory RNA RydC by the bacterial Hfq protein
eLife 3:e05375
116. Saliba AE, Westermann AJ, Gorski SA, **Vogel J** (2014)
Single-cell RNA-seq: advances and future challenges
Nucleic Acids Research 42(14):8845-60
115. Sharma CM, **Vogel J** (2014)
Differential RNA-seq: the approach behind and the biological insight gained
Current Opinion in Microbiology 19:97-105
114. Papenfort K, **Vogel J** (2014)
Small RNA functions in carbon metabolism and virulence of enteric pathogens
Frontiers in Cellular and Infection Microbiology 4:91
113. Förstner KU, **Vogel J**, Sharma CM (2014)
EADemption-a tool for the computational analysis of deep-sequencing-based transcriptome data
Bioinformatics 30:3421-3
112. **Vogel J**, Gottesman S, Belasco JG, Narberhaus F (2014)
Meeting report: Regulating with RNA in Bacteria 2013
RNA Biology 11(5):403-12
111. Podkaminski D, Bouvier M, **Vogel J** (2014)
Identification and characterization of small noncoding RNAs in bacteria
In: **Handbook of RNA Biochemistry** (eds. Hartmann RK, Bindereif A, Schön A, Westhof E), Wiley-VCH

2013

110. Papenfort K, Sun Y, Miyakoshi M, Vanderpool CK, **Vogel J** (2013)
Small RNA-mediated activation of sugar phosphatase mRNA regulates glucose homeostasis
Cell 153:426-37

109. Fröhlich KS, Papenfort K, Fekete A, **Vogel J** (2013)
A small RNA activates CFA synthase by isoform-specific mRNA stabilization
EMBO Journal 32(22):2963-79
108. Heidrich N, **Vogel J** (2013)
Same same but different: new structural insight into CRISPR-Cas complexes
Molecular Cell 52(1):4-7
107. Zhang Y, Heidrich N, Ampattu BJ, Gunderson CW, Seifert HS, Schoen C, **Vogel J**, Sontheimer EJ (2013)
Processing-Independent CRISPR RNAs Limit Natural Transformation in Neisseria meningitidis
Molecular Cell 50(4):488-503
106. Holmqvist E, **Vogel J** (2013)
A small RNA serving both the Hfq and CsrA regulons
Genes & Development 27:1073-8
105. Göpel Y, Papenfort K, Reichenbach B, **Vogel J**, Görke B (2013)
Targeted decay of a regulatory small RNA by an adaptor protein for RNase E and counteraction by an anti-adaptor RNA
Genes & Development 27(5):552-64
104. Wright PR, Richter AS, Papenfort K, Mann M, **Vogel J**, Hess WR, Backofen R, Georg J (2013)
Comparative genomics boosts target prediction for bacterial small RNAs
PNAS 110(37):E3487-96
103. Heidrich N, **Vogel J** (2013)
CRISPRs extending their reach: Prokaryotic RNAi protein Cas9 recruited for gene regulation
EMBO Journal 32(13):1802-4
102. Gutierrez A, Laureti L, Crussard S, Abida H, Rodríguez Rojas A, Blázquez J, Baharoglu Z, Mazel D, Darfeuille F, **Vogel J**, Matic I (2013)
 β -lactam antibiotics promote bacterial mutagenesis via RpoS-mediated reduction in replication fidelity
Nature Communications 4:1610
101. Schulte LN, Westermann AJ, **Vogel J** (2013)
Differential activation and functional specialisation of miR-146 and miR-155 in innate immune sensing
Nucleic Acids Research 41(1):542-53
100. **Vogel J**, Bassler BL (2013)
Bacterial Regulatory Mechanisms: The gene and beyond
Current Opinion in Microbiology 16(2):109-11
99. Caldelari I, Chao Y, Romby P, **Vogel J** (2013)
RNA-mediated regulation in pathogenic bacteria
Cold Spring Harb Perspect Med 3(9)
98. Papenfort K, Corcoran CP, Gupta SK, Miyakoshi M, Heidrich N, Chao Y, Fröhlich KS, Sharma CM, Ziebuhr W, Böhm A, **Vogel J** (2013)
Regulatory Mechanisms of Special Significance: The role of sRNAs in Virulence Regulation
In: **Regulation of Bacterial Virulence** (eds. Darwin AJ, Vasil ML), ASM Press, pp493-527

2012

97. Chao Y, Papenfort K, Reinhardt R, Sharma CM, **Vogel J** (2012)
An atlas of Hfq-bound transcripts reveals 3' UTRs as a genomic reservoir of regulatory small RNAs
EMBO Journal 31(20):4005-19
96. Papenfort K, Podkaminski D, Hinton JC, **Vogel J** (2012)
The ancestral SgrS RNA discriminates horizontally acquired Salmonella mRNAs through a single G-U wobble pair
PNAS 109(13):E757-64
95. Kröger C, Dillon SC, Cameron AD, Papenfort K, Sivasankaran SK, Hokamp K, Chao Y, Sittka A, Hebrard M, Händler K, Colgan A, Leekitcharoenphon P, Langridge GC, Lohan AJ, Loftus B, Lucchini S, Ussery DW, Dorman CJ, Thomson NR, **Vogel J**, Hinton JC (2012)
The transcriptional landscape and small RNAs of Salmonella enterica serovar Typhimurium
PNAS 109(20):E1277-86

94. Argaman L, Elgrably-Weiss M, Hershko T, **Vogel J**, Altuvia S (2012)
RelA protein stimulates the activity of RyhB small RNA by acting on Hfq
PNAS 109(12):4621-6
93. Bandyra K, Said N, Pfeiffer V, Górna MW, **Vogel J**, Luisi BF (2012)
The seed region of a small RNA drives the controlled destruction of target mRNA by the endoribonuclease RNase E
Molecular Cell 47(6):943-53
92. Lioliou E, Sharma CM, Caldelari I, Helfer AC, Fechter P, Vandenesch F, **Vogel J**, Romby P (2012)
Global regulatory functions of the of Staphylococcus aureus endoribonuclease III in gene expression
PLoS Genetics 8(6):e1002782
91. Corcoran C, Podkaminski D, Papenfort K, Urban JH, Hinton JC, **Vogel J** (2012)
Superfolder GFP reporters validate diverse new mRNA targets of the classic porin regulator, MicF RNA
Molecular Microbiology 84(3):428-45
90. Zhelyazkova P, Sharma CM, Förstner KU, Liere K, **Vogel J**, Börner T (2012)
The primary transcriptome of barley chloroplasts: numerous non-coding RNAs and the dominating role of the plastid-encoded RNA polymerase
Plant Cell 24(1):123-36
89. Fröhlich KS, Papenfort K, Berger AA, **Vogel J** (2012)
A conserved RpoS-dependent small RNA controls the synthesis of major porin OmpD
Nucleic Acids Research 40(8):3623-40
88. Schmidtke C, Findeiß S, Sharma CM, Kuhfuß J, Hoffmann S, **Vogel J**, Stadler PF, Bonas U (2012)
Genome-wide transcriptome analysis of the plant pathogen Xanthomonas identifies sRNAs with putative virulence functions
Nucleic Acids Research 40(5):2020-203
87. Westermann AJ, Gorski SA, **Vogel J** (2012)
Dual RNA-seq of pathogen and host
Nature Reviews Microbiology 10(9):618-30
86. Madhugiri R, Pessi G, Voss B, Hahn J, Sharma CM, Reinhardt R, **Vogel J**, Hess WR, Fischer HM, Evguenieva-Hackenberg E (2012)
Small RNAs of the Bradyrhizobium/Rhodospseudomonas lineage and their analysis
RNA Biology 9(1):47-58
85. Rieder R, Reinhardt R, Sharma CM, **Vogel J** (2012)
Experimental tools to identify RNA-protein interactions in Helicobacter pylori
RNA Biology 9(4):520-31
84. Eulalio A, Schulte LN, **Vogel J** (2012)
The mammalian microRNA response to bacterial infections
RNA Biology 9(6):742-50
83. Boehm A, **Vogel J** (2012)
The csgD mRNA as a hub for signal integration via multiple small RNAs
Molecular Microbiology 84(1):1-5
82. Borries A, **Vogel J**, Sharma CM (2012)
Differential RNA sequencing (dRNA-seq): Deep-sequencing based analysis of primary transcriptomes
In: **Tag-based Approaches for Next-Generation Sequencing**, Eds. M. Harbers, G. Kahl, Wiley-Blackwell-VCH
81. Corcoran CP, Rieder R, Podkaminski D, Hofmann B, **Vogel J** (2012)
Use of aptamer tagging to identify in vivo protein binding partners of small regulatory RNAs
Methods in Molecular Biology 905:177-200
- 2011**
80. Deltcheva E, Chylinski K, Sharma CM, Gonzales K, Chao Y, Pirzada ZA, Eckert MR, **Vogel J**, Charpentier E (2011)
CRISPR RNA maturation by trans-encoded small RNA and host factor RNase III
Nature 471(7340):602-7
79. Schulte LN, Eulalio A, Mollenkopf HJ, Reinhardt R, **Vogel J** (2011)
Analysis of the host microRNA response to Salmonella uncovers the control of major cytokines by the let-7 family
EMBO Journal 30(10):1977-89

78. Gogol EB, Rhodius VA, Papenfort K, **Vogel J**, Gross CA (2011)
Small RNAs endow a transcriptional activator with essential repressor functions for single-tier control of a global stress regulon
PNAS 108(31):12875-80
77. Mitschke J, Georg J, Scholz I, Sharma CM, Dienst D, Bantscheff J, Voß B, Steglich C, Wilde A, **Vogel J**, Hess WR (2011)
*An experimentally anchored map of transcriptional start sites in the model cyanobacterium *Synechocystis* sp. PCC 6803*
PNAS 108(5):2124-9
76. **Vogel J**, Luisi BF (2011)
Hfq and its constellation of RNA
Nature Reviews Microbiology 9(8):578-89
75. Storz G, **Vogel J**, Wassarman KM (2011)
Regulation by Small RNAs in Bacteria: Expanding Frontiers
Molecular Cell 43(6):880-91
74. Papenfort K, **Vogel J** (2011)
*Sweet business: *Spot42* RNA networks with CRP to modulate catabolite repression*
Molecular Cell 41(3):245-6
73. Sharma CM, Papenfort K, Pernitzsch SR, Mollenkopf HJ, Hinton JC, **Vogel J** (2011)
*Pervasive post-transcriptional control of genes involved in amino acid metabolism by the Hfq-dependent *GcvB* small RNA*
Molecular Microbiology 81(5):1144-65
72. Berghoff B, Glaeser J, Sharma CM, Zobawa M, Lottspeich F, **Vogel J**, Klug G (2011)
*Contribution of Hfq to photooxidative stress resistance and global regulation in *Rhodobacter sphaeroides**
Molecular Microbiology 80(6):1479-95
71. Albrecht M, Sharma CM, Dittrich MT, Müller T, Reinhardt R, **Vogel J**, Rudel T (2011)
*The transcriptional landscape of *Chlamydia pneumoniae**
Genome Biology 12(10):R98
70. Belair C, Baud J, Chabas S, Sharma CM, **Vogel J**, Staedel C, Darfeuille F (2011)
**Helicobacter pylori* interferes with an embryonic stem cell miRNA cluster to block cell cycle progression*
Silence 2(1):7
69. Eulalio A, Fröhlich KS, Mano M, Giacca M, **Vogel J** (2011)
*A candidate approach implicates the secreted *Salmonella* effector protein SpvB in P-body disassembly*
PLoS One 6(3):e17296
68. Böhm A, Papenfort K, Lopez D, **Vogel J** (2011)
Microbes at their best: First Mol Micro Meeting Würzburg
Molecular Microbiology 82(4):797-806
67. Corcoran C, Papenfort K, **Vogel J** (2011)
Hfq-associated regulatory small RNAs
In: **Regulatory RNAs in Prokaryotes** (eds. A. Marchfelder, W.R. Hess), Springer Germany; pp15-50

2010

66. Sharma CM, Hoffmann S, Darfeuille F, Reignier J, Findeiß S, Sittka A, Chabas S, Reiche K, Hackermüller J, Reinhardt R, Stadler PF, **Vogel J** (2010)
*The primary transcriptome of the major human pathogen *Helicobacter pylori**
Nature 464(7286):250-5
65. Papenfort K, Bouvier M, Mika F, Sharma CM, **Vogel J** (2010)
Evidence for an autonomous 5' target recognition domain in an Hfq-associated small RNA
PNAS 107(47):20435-40
64. Heale BS, Eulalio A, Schulte LN, **Vogel J**, O'Connell MA (2010)
*Analysis of *A* to *I* editing of miRNA in Macrophages exposed to *Salmonella**
RNA Biology 7(5):116-122
63. Irnov I, Sharma CM, **Vogel J**, Winkler WC (2010)
*Identification of regulatory RNAs in *Bacillus subtilis**
Nucleic Acids Research 38(19):6637-6651

62. Bohn C, Rigoulay C, Chabelskaya S, Sharma CM, Marchais A, Skorski P, Borezee-Durant B, Barbet R, Jacquet E, Jacq A, Gautheret D, Felden B, **Vogel J**, Bouloc P (2010)
Experimental discovery of small RNAs in Staphylococcus aureus reveals a riboregulator of central metabolism
Nucleic Acids Research 38(19):6620-6636
61. Albrecht M, Sharma CM, Reinhardt R, **Vogel J**, Rudel T (2010)
Deep sequencing-based discovery of the Chlamydia trachomatis transcriptome
Nucleic Acids Research 38(3):868-77
60. Papenfort K, **Vogel J** (2010)
Regulatory RNA in bacterial pathogens
Cell Host & Microbe 8(1):116-27
59. Podkaminski D, **Vogel J** (2010)
Small RNAs promote mRNA stability to activate the synthesis of virulence factors
Molecular Microbiology 78(6):1327-31
58. Chao Y, **Vogel J** (2010)
The role of Hfq in bacterial pathogens
Current Opinion in Microbiology 13(1):24-33
57. Javayel S, Papenfort K, **Vogel J** (2010)
The small RNAs of Salmonella
Salmonella: From Genome to Function (Edited by S. Prowollik), Caister Academic Press; ISBN: 978-1-904455-73-8

2004-2009

56. Pfeiffer V, Papenfort K, Lucchini S, Hinton JC, **Vogel J** (2009)
Coding sequence targeting by MicC RNA reveals bacterial mRNA silencing downstream of translational initiation
Nature Structural & Molecular Biology 16(8):840-846
55. Jäger D, Sharma CM, Thomsen J, Ehlers C, **Vogel J**, Schmitz RA (2009)
Deep sequencing analysis of the Methanosarcina mazei Gö1 transcriptome in response to nitrogen availability
PNAS 106(51):21878-21882
54. Said N, Rieder R, Hurwitz R, Deckert J, Urlaub H, **Vogel J** (2009)
In vivo expression and purification of aptamer-tagged small RNA regulators
Nucleic Acids Research 37(20):e133
53. Berghoff BA, Glaeser J, Sharma CM, **Vogel J**, Klug G (2009)
Photooxidative stress induced and abundant small RNAs in Rhodobacter sphaeroides
Molecular Microbiology 74(6), 1497–1512
52. Papenfort K, Said N, Welsink T, Lucchini S, Hinton JC, **Vogel J** (2009)
Specific and pleiotropic patterns of mRNA regulation by ArcZ, a conserved, Hfq-dependent small RNA
Molecular Microbiology 74(1):139-158
51. Muller C, Bang IS, Velayudhan J, Karlinsey J, Papenfort K, **Vogel J**, Fang FC (2009)
Acid Stress Activation of the σ^E Stress Response in Salmonella enterica serovar Typhimurium
Molecular Microbiology 71(5):1228-38
50. Hoffmann S, Otto C, Kurtz S, Sharma CM, Khaitovich P, **Vogel J**, Stadler PF, Hackermüller J (2009)
Fast mapping of short sequences with mismatches, insertions and deletions using index structures
PLoS Computational Biology 5(9):e1000502
49. Sittka A, Sharma CM, Rolle K, **Vogel J** (2009)
Deep sequencing of Salmonella RNA associated with heterologous Hfq proteins in vivo reveals small RNAs as a major target class and identifies RNA processing phenotypes
RNA Biology 6(3):266-275
48. Sharma CM, **Vogel J** (2009)
Experimental approaches for the discovery and characterization of regulatory small RNA
Current Opinion in Microbiology 12(5):536-46
47. Fröhlich K, **Vogel J** (2009)
Activation of gene expression by small RNA
Current Opinion in Microbiology 12(6):674-82

46. Narberhaus F, **Vogel J** (2009)
Regulatory RNAs in prokaryotes: Here, there and everywhere
Molecular Microbiology 74(2):261-269
45. **Vogel J** (2009)
An RNA trap helps bacteria get the most out of chitobiose
Molecular Microbiology 73(5):737-741
44. **Vogel J** (2009)
A rough guide to the noncoding RNA world of Salmonella
Molecular Microbiology 71(1):1-11
43. Papenfort K, **Vogel J** (2009)
Multiple target regulation by small noncoding RNAs rewires gene expression at the post-transcriptional level
Research in Microbiology 160:278-287
42. **Vogel J** (2009)
A small RNA cascade regulates aminosugar synthesis
Nova Acta Leopoldina 378:41-50
41. Urban JH, **Vogel J** (2009)
A green fluorescent protein (GFP) based plasmid system to study post-transcriptional control of gene expression in vivo
Methods in Molecular Biology 540:301-19
40. Bouvier M, Sharma CM, Mika F, Nierhaus KH, **Vogel J** (2008)
Small RNA binding to 5' mRNA coding region inhibits translational initiation
Molecular Cell 32(6):827-37
39. Urban JH, **Vogel J** (2008)
Two seemingly homologous noncoding RNAs act hierarchically to activate glmS mRNA translation
PLoS Biology 6(3):e64
38. Sittka A, Lucchini S, Papenfort K, Sharma C, Rolle K, Binnewies TT, Hinton JC, **Vogel J** (2008)
Deep sequencing analysis of small noncoding RNA and mRNA targets of the global post-transcriptional regulator, Hfq
PLoS Genetics 4(8):e1000163
37. Song T, Mika F, Lindmark B, Liu Z, Schild S, Bishop A, Zhu J, Camilli A, Johansson J, **Vogel J**, Wai SN (2008)
A new Vibrio cholerae sRNA modulates colonization and affects release of outer membrane vesicles
Molecular Microbiology 70(1):100-111
36. Papenfort K, Pfeiffer V, Lucchini S, Sonawane A, Hinton JC, **Vogel J** (2008)
Systematic deletion of Salmonella small RNA genes identifies CyaR, a conserved CRP-dependent riboregulator of OmpX synthesis
Molecular Microbiology 68(4):890-906
35. Dienst D, Dühring U, Mollenkopf HJ, **Vogel J**, Golecki J, Hess WR, Wilde A (2008)
The cyanobacterial homologue of the RNA chaperone Hfq is essential for motility of Synechocystis sp. PCC 6803
Microbiology 154(10):3134-3143
34. Görke B, **Vogel J** (2008)
Noncoding RNA functions in the making and breaking of sugars
Genes & Development 22(21):2914-25
33. Sittka A, **Vogel J** (2008)
A glimpse at the evolution of virulence control
Cell Host & Microbe 4:310-312
32. Henry AA, **Vogel J** (2008)
Noncoding RNAs
In: **Wiley Encyclopedia of Chemical Biology (WECB)** John Wiley & Sons, Ltd
31. Sharma CM, Darfeuille F, Plantinga T, **Vogel J** (2007)
A small RNA regulates multiple ABC transporter mRNAs by targeting C/A-rich elements inside and upstream of ribosome binding sites
Genes & Development 21(21):2804-2817
30. Darfeuille F, Unoson C, **Vogel J**, Wagner EGH (2007)
An antisense RNA inhibits translation by competing with "standby" ribosomes
Molecular Cell 26(3):381-92

29. Pfeiffer V, Sittka A, Tomer R, Tedin K, Brinkmann V, **Vogel J** (2007)
A small noncoding RNA of the invasion gene island (SPI-1) represses OMP synthesis from the Salmonella core genome
Molecular Microbiology 66(5):1174-1191
28. Wilson JW, Ott CM, Höner zu Bentrup K, Ramamurthy R, Quick L, Porwollik S, Cheng P, McClelland M, Tsaprilis G, Radabaugh T, Hunt A, Fernandez D, Richter E, Shah M, Kilcoyne M, Joshi L, Nelman-Gonzalez M, Hing S, Parra M, Dumars P, Norwood K, Bober R, Devich J, Ruggles A, Goulart C, Rupert M, Stodieck L, Stafford P, Catella L, Schurr MJ, Buchanan K, Morici L, McCracken J, Allen P, Baker-Coleman C, Hammond T, **Vogel J**, Nelson R, Pierson DL, Stefanyshyn-Piper HM, Nickerson CA (2007)
Spaceflight alters bacterial gene expression and virulence and reveals roles for global regulator Hfq
PNAS 104(41):16299-16304
27. Viegas S, Pfeiffer V, Sittka A, Silva IJ, **Vogel J**, Arraiano CM (2007)
Characterization of the role of Ribonucleases in Salmonella small RNA decay
Nucleic Acids Research 35(22):7651-7664
26. Urban JH, Papenfort K, Thompsen J, Schmitz RA, **Vogel J** (2007)
A conserved small RNA promotes discoordinate expression of the glmUS operon mRNA to activate GlmS synthesis
Journal of Molecular Biology 373(3): 521-528
25. Urban JH, **Vogel J** (2007)
Translational control and target recognition by Escherichia coli small RNAs in vivo
Nucleic Acids Research 35(3):1018-37
24. Sittka A, Pfeiffer V, Tedin K, **Vogel J** (2007)
The RNA chaperone Hfq is essential for the virulence of Salmonella typhimurium
Molecular Microbiology 63(1): 193-217
23. **Vogel J**, Wagner EGH (2007)
Target identification of small non-coding RNAs in bacteria
Current Opinion in Microbiology 10:262-270
22. Narberhaus F, **Vogel J** (2007)
Sensory and regulatory RNAs in prokaryotes: A new German research focus
RNA Biology 4(3):160-164
21. Arraiano CM, Bamford J, Brüßow H, Carpousis AJ, Pelicic V, Pflüger K, Polard P, **Vogel J** (2007)
Recent Advances on the Expression, Evolution and Dynamics of Prokaryotic Genomes
Journal of Bacteriology 189(17):6093-6100
20. Papenfort K, Pfeiffer V, Mika F, Lucchini S, Hinton JC, **Vogel J** (2006)
SigmaE-dependent small RNAs of Salmonella respond to membrane stress by accelerating global omp mRNA decay
Molecular Microbiology 62(6), 1674-1688
19. **Vogel J**, Papenfort K (2006)
Small non-coding RNAs and the bacterial outer membrane
Current Opinion in Microbiology 9(6):605-611
18. Hüttenhofer A, **Vogel J** (2006)
Experimental approaches to identify noncoding RNAs
Nucleic Acids Research 34(2):635-46
17. Udekwi KI, Darfeuille F, **Vogel J**, Reimegård J, Holmqvist E, Wagner EGH (2005)
Hfq-dependent regulation of OmpA synthesis is mediated by an antisense RNA
Genes & Development 19(19):2355-2366
16. Axmann IM, Kensche P, **Vogel J**, Kohl S, Herzel H, Hess WR (2005)
Identification of cyanobacterial non-coding RNAs by comparative genome analysis
Genome Biology 6(9):R73
15. **Vogel J**, Sharma CM (2005)
How to find small non-coding RNAs in bacteria
Biological Chemistry 386(11):1219-38
14. **Vogel J**, Wagner EGH (2005)
RNA mining
In: **Handbook of RNA Biochemistry** (eds. Hartmann RK, Bindereif A, Schön A, Westhof E), Wiley-VCH, Vol 2:595-613

13. Wagner EGH, **Vogel J** (2005)
Functional analysis of identified non-mRNAs
In: **Handbook of RNA Biochemistry** (eds. Hartmann RK, Bindereif A, Schön A, Westhof E), Wiley-VCH, Vol 2:614-642
12. **Vogel J**, Argaman L, Wagner EGH, Altuvia S (2004)
The small RNA IstR inhibits synthesis of an SOS-induced toxic peptide
Current Biology 14(24):2271-6

2000-2003

11. **Vogel J**, Bartel V, Tang TH, Churakov G, Slagter-Jäger, Hüttenhofer A, Wagner EGH (2003)
RNomics in Escherichia coli detects new sRNA species and indicates parallel transcriptional output in bacteria
Nucleic Acids Research 31(22):6435-6443
10. **Vogel J**, Axmann IM, Herzel H, Hess WR (2003)
Experimental and computational analysis of transcriptional start sites in the cyanobacterium Prochlorococcus MED4
Nucleic Acids Research 31(11):2890-2899
9. Wagner EGH, **Vogel J** (2003)
Noncoding RNAs encoded by bacterial chromosomes
In: **Noncoding RNAs** (eds. Barciszewski J, Erdmann V), Landes Bioscience, 243-259
8. **Vogel J**, Börner T (2002)
Lariat formation and a hydrolytic pathway in plant chloroplast group II intron splicing
EMBO Journal 21(14):3794-3803
7. Argaman L, Hershberg R, **Vogel J**, Bejerano G, Wagner EGH, Margalit H, Altuvia S (2001)
Novel small RNA-encoding genes in the intergenic regions of Escherichia coli
Current Biology 11(12):941-950
6. **Vogel J**, Hess WR (2001)
Complete 5' and 3' end maturation of group II intron containing tRNA precursors
RNA 7(2):285-292
5. Bonen L, **Vogel J** (2001)
The ins and outs of group II introns
Trends in Genetics 17(6):322-331

1997-1999

4. **Vogel J**, Börner T, Hess WR (1999)
Comparative analysis of splicing of the complete set of chloroplast group II introns in three higher plant mutants
Nucleic Acids Research 27(19): 3866-3874
3. **Vogel J**, Börner T, Hess WR (1998)
Barley plastid genes encoding trnI-GAU and trnA-UGC are disrupted by group II introns
Plant Physiology 118:331
2. **Vogel J**, Hess WR, Börner T (1997)
Precise branch point mapping and quantification of splicing intermediates
Nucleic Acids Research 25(10):2030-2031
1. **Vogel J**, Hübschmann T, Börner T, Hess WR (1997)
Splicing and intron-internal RNA editing of trnK-matK transcripts in barley plastids: support for MatK as an essential splice factor
Journal of Molecular Biology 270(2):179-187