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File Type	Bibliographic																				
Features	<table border="0" style="width: 100%;"> <tr> <td>Alerts (SDIs)</td> <td>Monthly</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CAS Registry Number[®] Identifiers</td> <td><input type="checkbox"/></td> <td>Page Images</td> <td><input type="checkbox"/></td> <td>STN[®] AnaVist[™] <input type="checkbox"/></td> </tr> <tr> <td>Keep & Share</td> <td><input checked="" type="checkbox"/></td> <td>SLART</td> <td><input checked="" type="checkbox"/></td> <td>STN Easy[®] <input type="checkbox"/></td> </tr> <tr> <td>Learning Database</td> <td><input type="checkbox"/></td> <td>Structures</td> <td><input type="checkbox"/></td> <td></td> </tr> </table>	Alerts (SDIs)	Monthly				CAS Registry Number [®] Identifiers	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	STN [®] AnaVist [™] <input type="checkbox"/>	Keep & Share	<input checked="" type="checkbox"/>	SLART	<input checked="" type="checkbox"/>	STN Easy [®] <input type="checkbox"/>	Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>	
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User Aids

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Clusters

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Search and Display Field Codes

The fields that allow left truncation (/BI, /TI) in this file are indicated by an asterisk (*).

Search Field Name	Search Code	Search Examples	Display Codes
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Abstract	/AB	S SYNTHESIS/AB S ?VALENC?/AB	AB
Accession Number	/AN	S 92:106/AN	AN
Author/Advisor	/AU	S GILPIN, R?/AU	AU
Author Identifier	/AUID	S 0000-0003-4978-6051/AUID	AUID
Classification Code (1) (Descriptor) (code and text)	/CC	S ENGINEERING/CC S AEROSPACE ENGINEERING/CC S 0538/CC	CC
Corporate Source/Institution (1) (code and text)	/CS	S DUKE/CS S PACIFIC UNIV?/CS S 0173/CS	CS
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Format	Content	Examples
AB AN AU AUID CC CS ED FS ISN JT LA PY SO TI UP	Abstract Accession Number Author/Advisor Author Identifier Classification Code (Descriptor) Corporate Source/Institution Entry Date File Segment International Standard (Document) Number (ISBN) Journal Title Language Publication Year Source Title Update Date	D L4 1-4 AB D L1 3 AN D AU CS 1,3-5 D AU AUID 1 D CC 5-10 D 1-3,7,8 CS SO D 6 ED D FS 1-5 D L1 ISN 3 D 1,3,6,8 JT L5 D LA D L8 PY 1-3 D 1 4 SO D L1 TI AB D 5 UP
ABS ALL BIB CBIB IALL IBIB IND SAM SCAN	AB AN, TI, AU, AUID, CS, SO, FS, LA, AB, CC AN, TI, AU, AUID, CS, SO, FS, LA (default) Compressed bibliographic information ALL, indented with text labels BIB, indented with text labels CC TI, CC TI, CC (random display without answer numbers)	D AB D 1, 3, 5 ALL D 1-10 BIB D CBIB D IALL D 1-3,5 IBIB D L3 2 IND D SAM D SCAN
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Language	LA	Y	Y
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Sample Records

DISPLAY IBIB

ACCESSION NUMBER: 2017:88719 DISSABS Order Number: AAI10268911
 TITLE: Fabrication and Applications of Multifunctional Superhydrophobic Surfaces Based on Surface Chemistry and Morphology
 AUTHOR: Liu, Yang [Ph.D.]; Lyons, Alan M. [advisor]
 AUTHOR ID: ORCID: <https://orcid.org/0000-0003-4978-6051>
 CORPORATE SOURCE: City University of New York (0046)
 SOURCE: Dissertation Abstracts International, (2017) Vol. 78, No. 9B(E). Order No.: AAI10268911. ProQuest Dissertations & Theses. 201 pages.
 ISBN: 978-1-369-74659-4.
 DOCUMENT TYPE: Dissertation
 FILE SEGMENT: DAI
 LANGUAGE: English
 ENTRY DATE: Entered STN: 20170705
 Last Updated on STN: 20170705

DISPLAY ALL

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 AN 2017:79825 DISSABS Order Number: AAI10249874
 TI Iron uptake in symbiosis: The role of siderophore in the association between *Vibrio fischeri* and *Euprymna scolopes*
 AU DaSilva, Evan [M.S.]; Whistler, Cheryl A. [advisor]
 AUID ORCID: <https://orcid.org/0000-0002-4186-0272>
 CS University of New Hampshire (0141)
 SO Masters Abstracts International, (2016) Vol. 56, No. 3(E). Order No.: AAI10249874. ProQuest Dissertations & Theses. 76 pages.
 ISBN: 978-1-369-51560-2.
 DT Dissertation
 FS MAI
 LA English
 ED Entered STN: 20170523
 Last Updated on STN: 20170523
 AB Iron acquisition is well studied in pathogens, and successful virulence is often attributed to iron acquisition by siderophore and heme uptake; however, the role of iron uptake in mutual symbiotic interactions is not as well understood. The mutual symbiosis between *Vibrio fischeri* and the Hawaiian bobtail squid, *Euprymna scolopes*, is a well-characterized system in which iron uptake has been implicated as a symbiotic factor. Four studies have implicated iron uptake in the symbiosis: 1) A TnLux reporter assay revealed that siderophore is more highly expressed by *V. fischeri* in the light organs of juvenile squid compared to *V. fischeri* in liquid culture; 2) Microarray data showed that genes for siderophore production are upregulated in the light organs of adult squid; 3) A siderophore deficient *glnD* mutant of *V. fischeri* had a persistence defect in the light organ that was complemented by addition of iron to the seawater; and 4) A *V. fischeri* mutant in which the heme uptake locus was deleted had a persistence defect in the squid light organ that was apparent in competition with the ancestor strain *V. fischeri* ES114. I hypothesize that iron uptake by siderophore is necessary for persistence of *V. fischeri* in the squid light organ, complementary to heme uptake, and that due to the toxic nature of iron, sequestration by siderophore contributes oxidative stress response.
 To assess the role of iron uptake in the interaction between *V. fischeri* and the Hawaiian bobtail squid we utilized several strategies: 1) I identified iron uptake systems available to *V. fischeri* by bioinformatically comparing known iron uptake systems against the genome; 2) To reveal potential avenues by which iron uptake is regulated in *V. fischeri*, we identified genes that influence siderophore biosynthesis by screening a transposon mutant library for siderophore phenotypes; 3) I assessed the physiological role, in growth and oxidative response, of several of the iron uptake genes previously identified; and 4) I directly

assessed the symbiotic ability of mutants deficient in iron uptake.

The bioinformatic search revealed several siderophore uptake systems, as well as the previously described heme uptake system; however, only one siderophore biosynthesis system, for aerobactin, was identified. In screening the mutant library, I identified many genes in the flagellar locus and the cellular biosynthesis locus that positively influence siderophore production as well as two quorum sensing genes, AinS and RpoQ, and several cell wall biogenesis/oxidative sensing genes that negatively influence siderophore production. We determined that aerobactin biosynthesis does not contribute to oxidative stress response but does contribute to growth in iron limiting conditions, suggesting a purely nutritional role for siderophore in the symbiosis. When we tested the symbiotic ability of an iucA mutant deficient in siderophore, we could not demonstrate a persistence defect; however, we did find that two siderophore uptake mutants have a competitive defect 24 hours after inoculation, suggesting that siderophore contributes to symbiotic fitness. These findings suggest that regulation of iron uptake in *V. fischeri* involves more than just response to iron levels, and that iron uptake regulation is intertwined with symbiotically relevant traits. Due to the monospecific nature of the symbiosis, it is unlikely that the non-aerobactin uptake systems contribute to the symbiotic ability of *V. fischeri*; however, it is clear that aerobactin does contribute to symbiotic ability by conferring a growth advantage over other strains deficient in aerobactin uptake.

CC 0307 Biology, Molecular; 0369 Biology, Genetics; 0410 Biology, Microbiology

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TI SOLAR ENERGY AS A POTENTIAL HEAT SOURCE FOR THE HEAT PUMP
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