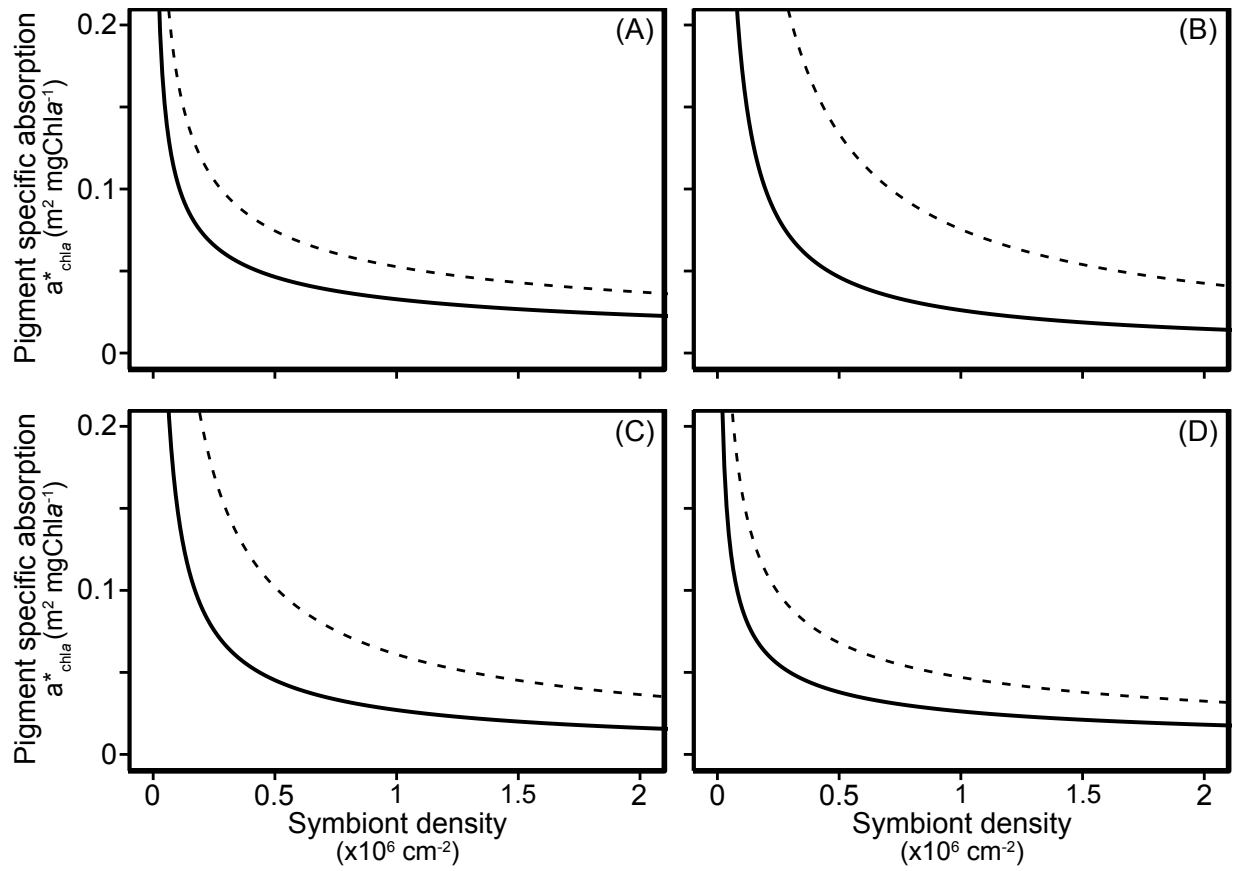




**Supplementary Figure 1:** Different trajectories of changes in  $a^*_{chl a}$  with decreasing symbiont density for a constant high  $C_i$  (mean  $C_i +$  one SD; solid line) and low  $C_i$  (mean  $C_i -$  one SD; dashed line) for (A) *O. annularis*, (B) *O. faveolata*, (C) *M. cavernosa*, and (D) *P. strigosa*

**Supplementary table S1:** Average values  $\pm$  SE of all parameters analyzed in this study by species and coral phenotype. Different upper case letters indicate differences among species within the unstressed phenotype, while lower case letters indicate differences between coral phenotype within each species (one-way ANOVA, Tukey HSD,  $p < 0.05$ ). Number of observations (n) per species is indicated in the same order than species columns.

| Parameter                                                                         | n           |            | <i>O. annularis</i>               | <i>O. faveolata</i>               | <i>M. cavernosa</i>              | <i>P. strigosa</i>                |
|-----------------------------------------------------------------------------------|-------------|------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|
| Chlorophyll <i>a</i><br>(mg Chl <i>a</i> m <sup>-2</sup> )                        | 51/43/49/44 | Unstressed | 92 $\pm$ 3.3 <sup>A/a</sup>       | 133.61 $\pm$ 4.8 <sup>B/a</sup>   | 129.4 $\pm$ 4.6 <sup>BC/a</sup>  | 113.14 $\pm$ 5.5 <sup>C/a</sup>   |
|                                                                                   | 11/22/16/20 | Stressed   | 49.96 $\pm$ 8.1 <sup>b</sup>      | 64.89 $\pm$ 5.9 <sup>b</sup>      | 86.82 $\pm$ 8.32 <sup>b</sup>    | 64.61 $\pm$ 5.3 <sup>b</sup>      |
|                                                                                   | 8/0/6/3     | Bleached   | 4.05 $\pm$ 1.4 <sup>c</sup>       | -                                 | 12.63 $\pm$ 3.3 <sup>c</sup>     | 14.86 $\pm$ 3.96 <sup>b</sup>     |
| Symbionts<br>(x10 <sup>6</sup> # sym cm <sup>-2</sup> )                           | 51/43/49/44 | Unstressed | 3.17 $\pm$ 0.13 <sup>A/a</sup>    | 3.77 $\pm$ 0.17 <sup>B/a</sup>    | 2.36 $\pm$ 0.09 <sup>C/a</sup>   | 2.04 $\pm$ 0.13 <sup>C/a</sup>    |
|                                                                                   | 11/22/16/20 | Stressed   | 1.57 $\pm$ 0.2 <sup>b</sup>       | 2.1 $\pm$ 0.19 <sup>b</sup>       | 1.59 $\pm$ 0.12 <sup>b</sup>     | 1.47 $\pm$ 0.09 <sup>b</sup>      |
|                                                                                   | 8/0/6/3     | Bleached   | 0.17 $\pm$ 0.06 <sup>c</sup>      | -                                 | 0.23 $\pm$ 0.09 <sup>c</sup>     | 0.27 $\pm$ 0.09 <sup>b</sup>      |
| Ci<br>(pg Chl <i>a</i> sym <sup>-1</sup> )                                        | 51/43/49/44 | Unstressed | 3.07 $\pm$ 0.12 <sup>A</sup>      | 3.72 $\pm$ 0.12 <sup>A</sup>      | 5.76 $\pm$ 0.22 <sup>B</sup>     | 5.98 $\pm$ 0.24 <sup>B/a</sup>    |
|                                                                                   | 11/22/16/20 | Stressed   | 3.2 $\pm$ 0.41                    | 3.31 $\pm$ 0.24                   | 5.52 $\pm$ 0.44                  | 4.47 $\pm$ 0.27 <sup>a</sup>      |
|                                                                                   | 8/0/6/3     | Bleached   | 3.76 $\pm$ 1.01                   | -                                 | 6.62 $\pm$ 1.46                  | 8.21 $\pm$ 1.76 <sup>b</sup>      |
| Host soluble protein<br>(mg protein cm <sup>-2</sup> )                            | 51/43/49/44 | Unstressed | 2.42 $\pm$ 0.19 <sup>A/a</sup>    | 3.69 $\pm$ 0.32 <sup>A</sup>      | 5.96 $\pm$ 0.68 <sup>B</sup>     | 3.5 $\pm$ 0.36 <sup>A</sup>       |
|                                                                                   | 11/22/16/20 | Stressed   | 4.7 $\pm$ 0.72 <sup>b</sup>       | 4.12 $\pm$ 0.51                   | 7.18 $\pm$ 1.21                  | 3.53 $\pm$ 0.61                   |
|                                                                                   | 8/0/6/3     | Bleached   | 2.67 $\pm$ 0.6 <sup>a</sup>       | -                                 | 5.71 $\pm$ 0.63                  | 4.38 $\pm$ 1.83                   |
| Fv/Fm                                                                             | 51/43/49/44 | Unstressed | 0.61 $\pm$ 0.004 <sup>A/a</sup>   | 0.64 $\pm$ 0.004 <sup>B/a</sup>   | 0.61 $\pm$ 0.004 <sup>A/a</sup>  | 0.62 $\pm$ 0.002 <sup>A/a</sup>   |
|                                                                                   | 11/22/16/20 | Stressed   | 0.5 $\pm$ 0.028 <sup>b</sup>      | 0.58 $\pm$ 0.021 <sup>b</sup>     | 0.48 $\pm$ 0.021 <sup>b</sup>    | 0.56 $\pm$ 0.009 <sup>b</sup>     |
|                                                                                   | 8/0/6/3     | Bleached   | 0.43 $\pm$ 0.009 <sup>c</sup>     | -                                 | 0.15 $\pm$ 0.044 <sup>c</sup>    | 0.36 $\pm$ 0.012 <sup>c</sup>     |
| P <sub>max</sub><br>( $\mu$ mol O <sub>2</sub> cm <sup>-2</sup> h <sup>-1</sup> ) | 51/43/49/44 | Unstressed | 3.21 $\pm$ 0.1 <sup>A/a</sup>     | 3.31 $\pm$ 0.12 <sup>A/a</sup>    | 2.59 $\pm$ 0.09 <sup>B/a</sup>   | 2.55 $\pm$ 0.11 <sup>B/a</sup>    |
|                                                                                   | 11/22/16/20 | Stressed   | 2.21 $\pm$ 0.2 <sup>b</sup>       | 2.13 $\pm$ 0.17 <sup>b</sup>      | 1.41 $\pm$ 0.12 <sup>b</sup>     | 1.53 $\pm$ 0.13 <sup>b</sup>      |
|                                                                                   | 8/0/6/3     | Bleached   | 0.07 $\pm$ 0.02 <sup>c</sup>      | -                                 | 0.1 $\pm$ 0.03 <sup>c</sup>      | 0.14 $\pm$ 0.01 <sup>b</sup>      |
| P <sub>sym</sub><br>(pmol O <sub>2</sub> sym <sup>-1</sup> h <sup>-1</sup> )      | 51/43/49/44 | Unstressed | 1.18 $\pm$ 0.07 <sup>A/a</sup>    | 1 $\pm$ 0.06 <sup>A</sup>         | 1.21 $\pm$ 0.06 <sup>A</sup>     | 1.54 $\pm$ 0.13 <sup>B</sup>      |
|                                                                                   | 11/22/16/20 | Stressed   | 1.61 $\pm$ 0.16 <sup>b</sup>      | 1.23 $\pm$ 0.15                   | 1.08 $\pm$ 0.16                  | 1.11 $\pm$ 0.1                    |
|                                                                                   | 8/0/6/3     | Bleached   | 0.6 $\pm$ 0.17 <sup>a</sup>       | -                                 | 0.52 $\pm$ 0.11                  | 0.57 $\pm$ 0.2                    |
| P <sub>M</sub><br>( $\mu$ mol O <sub>2</sub> prot <sup>-1</sup> h <sup>-1</sup> ) | 51/43/49/44 | Unstressed | 1.72 $\pm$ 0.1 <sup>A/a</sup>     | 1.23 $\pm$ 0.08 <sup>B/a</sup>    | 0.82 $\pm$ 0.08 <sup>C/a</sup>   | 1.15 $\pm$ 0.09 <sup>B</sup>      |
|                                                                                   | 11/22/16/20 | Stressed   | 0.65 $\pm$ 0.11 <sup>b</sup>      | 0.74 $\pm$ 0.1 <sup>b</sup>       | 0.38 $\pm$ 0.07 <sup>b</sup>     | 0.83 $\pm$ 0.15                   |
|                                                                                   | 8/0/6/3     | Bleached   | 0.03 $\pm$ 0.01 <sup>b</sup>      | -                                 | 0.02 $\pm$ 0.01 <sup>b</sup>     | 0.04 $\pm$ 0.02                   |
| Absorptance                                                                       | 51/43/49/44 | Unstressed | 92.06 $\pm$ 0.35 <sup>A/a</sup>   | 90.37 $\pm$ 0.44 <sup>B/a</sup>   | 91.47 $\pm$ 0.25 <sup>AB/a</sup> | 87.7 $\pm$ 0.47 <sup>C/a</sup>    |
|                                                                                   | 11/22/16/20 | Stressed   | 74.39 $\pm$ 5.97 <sup>b</sup>     | 85.34 $\pm$ 1.42 <sup>b</sup>     | 80.15 $\pm$ 2.77 <sup>b</sup>    | 81.66 $\pm$ 1.18 <sup>b</sup>     |
|                                                                                   | 8/0/6/3     | Bleached   | 40.87 $\pm$ 2.51 <sup>c</sup>     | -                                 | 52.39 $\pm$ 2.95 <sup>c</sup>    | 61.24 $\pm$ 1.34 <sup>c</sup>     |
| a* <sub>Chl <i>a</i></sub><br>(m <sup>2</sup> mg Chl <i>a</i> <sup>-1</sup> )     | 51/43/49/44 | Unstressed | 0.031 $\pm$ 0.002 <sup>A/a</sup>  | 0.02 $\pm$ 0.001 <sup>B/a</sup>   | 0.021 $\pm$ 0.001 <sup>B/a</sup> | 0.021 $\pm$ 0.001 <sup>B/a</sup>  |
|                                                                                   | 11/22/16/20 | Stressed   | 0.038 $\pm$ 0.004 <sup>a</sup>    | 0.041 $\pm$ 0.006 <sup>b</sup>    | 0.023 $\pm$ 0.002 <sup>a</sup>   | 0.032 $\pm$ 0.003 <sup>b</sup>    |
|                                                                                   | 8/0/6/3     | Bleached   | 0.18 $\pm$ 0.036 <sup>b</sup>     | -                                 | 0.076 $\pm$ 0.033 <sup>b</sup>   | 0.059 $\pm$ 0.01 <sup>c</sup>     |
| a* <sub>sym</sub> (m <sup>2</sup> sym <sup>-1</sup> )                             | 51/43/49/44 | Unstressed | 0.007 $\pm$ 0.0003 <sup>A/a</sup> | 0.006 $\pm$ 0.0003 <sup>A/a</sup> | 0.01 $\pm$ 0.0004 <sup>B/a</sup> | 0.009 $\pm$ 0.0005 <sup>B/a</sup> |
|                                                                                   | 11/22/16/20 | Stressed   | 0.009 $\pm$ 0.0012 <sup>a</sup>   | 0.009 $\pm$ 0.0009 <sup>b</sup>   | 0.011 $\pm$ 0.001 <sup>a</sup>   | 0.01 $\pm$ 0.0006 <sup>a</sup>    |
|                                                                                   | 8/0/6/3     | Bleached   | 0.047 $\pm$ 0.0126 <sup>b</sup>   | -                                 | 0.028 $\pm$ 0.0014 <sup>b</sup>  | 0.026 $\pm$ 0.0061 <sup>b</sup>   |
| a* <sub>M</sub><br>(m <sup>2</sup> mg protein <sup>-1</sup> )                     | 51/43/49/44 | Unstressed | 0.12 $\pm$ 0.008 <sup>A/a</sup>   | 0.08 $\pm$ 0.007 <sup>B/a</sup>   | 0.06 $\pm$ 0.006 <sup>B/a</sup>  | 0.08 $\pm$ 0.008 <sup>B</sup>     |
|                                                                                   | 11/22/16/20 | Stressed   | 0.03 $\pm$ 0.005 <sup>b</sup>     | 0.05 $\pm$ 0.006 <sup>b</sup>     | 0.04 $\pm$ 0.005 <sup>b</sup>    | 0.06 $\pm$ 0.007                  |
|                                                                                   | 8/0/6/3     | Bleached   | 0.02 $\pm$ 0.006 <sup>b</sup>     | -                                 | 0.02 $\pm$ 0.002 <sup>b</sup>    | 0.02 $\pm$ 0.006                  |

**Supplementary table S2:** Pearson correlation between optical, structural, and photo-physiological descriptors by species.

|                        | Optical  |                        |                       |                     | Structural |          |         | Photo-physiological  |                      |
|------------------------|----------|------------------------|-----------------------|---------------------|------------|----------|---------|----------------------|----------------------|
| <i>O. annularis</i>    | log A    | log a* <sub>Chla</sub> | log a* <sub>sym</sub> | log a* <sub>M</sub> | log Chla   | log sym  | log Ci  | log P <sub>max</sub> | log P <sub>sym</sub> |
| log A                  |          |                        |                       |                     |            |          |         |                      |                      |
| log a* <sub>Chla</sub> | -0.56*** |                        |                       |                     |            |          |         |                      |                      |
| log a* <sub>sym</sub>  | -0.36*** | 0.74***                |                       |                     |            |          |         |                      |                      |
| log a* <sub>M</sub>    | 0.59***  | -0.19                  | -0.38***              |                     |            |          |         |                      |                      |
| log Chla               | 0.87***  | -0.88***               | -0.64***              | 0.47***             |            |          |         |                      |                      |
| log sym                | 0.76***  | -0.78***               | -0.87***              | 0.60***             | 0.89***    |          |         |                      |                      |
| log Ci                 | 0.33**   | -0.29**                | 0.41***               | -0.28**             | 0.32**     | -0.14    |         |                      |                      |
| log P <sub>max</sub>   | 0.74***  | -0.77***               | -0.68***              | 0.39***             | 0.87***    | 0.85***  | 0.13    |                      |                      |
| log P <sub>sym</sub>   | 0.11     | -0.12                  | 0.19                  | -0.29**             | 0.12       | -0.1     | 0.47*** | 0.44***              |                      |
| log P <sub>M</sub>     | 0.70***  | -0.59***               | -0.70***              | 0.78***             | 0.76***    | 0.85***  | -0.17   | 0.85***              | 0.16                 |
| <i>O. faveolata</i>    | log A    | log a* <sub>Chla</sub> | log a* <sub>sym</sub> | log a* <sub>M</sub> | log Chla   | log sym  | log Ci  | log P <sub>max</sub> | log P <sub>sym</sub> |
| log A                  |          |                        |                       |                     |            |          |         |                      |                      |
| log a* <sub>Chla</sub> | 0.01     |                        |                       |                     |            |          |         |                      |                      |
| log a* <sub>sym</sub>  | -0.08    | 0.80***                |                       |                     |            |          |         |                      |                      |
| log a* <sub>M</sub>    | 0.56***  | -0.12                  | -0.32**               |                     |            |          |         |                      |                      |
| log Chla               | 0.36***  | -0.92***               | -0.77***              | 0.35***             |            |          |         |                      |                      |
| log sym                | 0.53***  | -0.69***               | -0.86***              | 0.57***             | 0.85***    |          |         |                      |                      |
| log Ci                 | -0.27*   | -0.48***               | 0.1                   | -0.38***            | 0.34**     | -0.21    |         |                      |                      |
| log P <sub>max</sub>   | 0.51***  | -0.33**                | -0.22*                | 0.09                | 0.49***    | 0.44***  | 0.11    |                      |                      |
| log P <sub>sym</sub>   | -0.08    | 0.40***                | 0.67***               | -0.50***            | -0.41***   | -0.61*** | 0.31**  | 0.44***              |                      |
| log P <sub>M</sub>     | 0.56***  | -0.33**                | -0.46***              | 0.85***             | 0.53***    | 0.67***  | -0.22*  | 0.54***              | -0.19                |

| <i>M. cavernosa</i>    | log A   | log a* <sub>Chla</sub> | log a* <sub>sym</sub> | log a* <sub>M</sub> | log Chla | log sym  | log Ci   | log P <sub>max</sub> | log P <sub>sym</sub> |
|------------------------|---------|------------------------|-----------------------|---------------------|----------|----------|----------|----------------------|----------------------|
| log A                  |         |                        |                       |                     |          |          |          |                      |                      |
| log a* <sub>Chla</sub> | -0.16   |                        |                       |                     |          |          |          |                      |                      |
| log a* <sub>sym</sub>  | -0.14   | 0.53***                |                       |                     |          |          |          |                      |                      |
| log a* <sub>M</sub>    | 0.28**  | 0.01                   | -0.42***              |                     |          |          |          |                      |                      |
| log Chla               | 0.71*** | -0.80***               | -0.41***              | 0.17                |          |          |          |                      |                      |
| log sym                | 0.65*** | -0.61***               | -0.77***              | 0.46***             | 0.81***  |          |          |                      |                      |
| log Ci                 | 0.07    | -0.26**                | 0.58***               | -0.48***            | 0.27**   | -0.33*** |          |                      |                      |
| log P <sub>max</sub>   | 0.69*** | -0.41***               | -0.25*                | 0.32**              | 0.72***  | 0.68***  | 0.06     |                      |                      |
| log P <sub>sym</sub>   | 0.22*   | 0.11                   | 0.49***               | -0.07               | 0.09     | -0.17    | 0.44***  | 0.61***              |                      |
| log P <sub>M</sub>     | 0.40*** | -0.21*                 | -0.49***              | 0.87***             | 0.40***  | 0.63***  | -0.39*** | 0.70***              | 0.26*                |

| <i>P. strigosa</i>     | log A   | log a* <sub>Chla</sub> | log a* <sub>sym</sub> | log a* <sub>M</sub> | log Chla | log sym  | log Ci | log P <sub>max</sub> | log P <sub>sym</sub> |
|------------------------|---------|------------------------|-----------------------|---------------------|----------|----------|--------|----------------------|----------------------|
| log A                  |         |                        |                       |                     |          |          |        |                      |                      |
| log a* <sub>Chla</sub> | -0.27*  |                        |                       |                     |          |          |        |                      |                      |
| log a* <sub>sym</sub>  | -0.2    | 0.62***                |                       |                     |          |          |        |                      |                      |
| log a* <sub>M</sub>    | 0.28**  | -0.39***               | -0.26*                |                     |          |          |        |                      |                      |
| log Chla               | 0.64*** | -0.90***               | -0.58***              | 0.47***             |          |          |        |                      |                      |
| log sym                | 0.63*** | -0.63***               | -0.86***              | 0.34***             | 0.77***  |          |        |                      |                      |
| log Ci                 | -0.01   | -0.44***               | 0.39***               | 0.19                | 0.35***  | -0.30**  |        |                      |                      |
| log P <sub>max</sub>   | 0.66*** | -0.28**                | -0.24*                | 0.07                | 0.48***  | 0.45***  | -0.01  |                      |                      |
| log P <sub>sym</sub>   | 0.18    | 0.22*                  | 0.46***               | -0.21*              | -0.14    | -0.35*** | 0.24*  | 0.68***              |                      |
| log P <sub>M</sub>     | 0.43*** | -0.45***               | -0.36***              | 0.82***             | 0.55***  | 0.44***  | 0.14   | 0.58***              | 0.25*                |

Significants levels: \*\*\* = 0.001, \*\* = 0.01, \* = 0.05

**Supplementary table S3:** Statistics, intercept ( $\pm$ SE) and slopes ( $\pm$ SE) per species of the independent variables used in the linear regression equation between  $a^*_{chl a}$  and chlorophyll  $a$  density.

| Species             | Variables | Estimate         | F      | p-value | R <sup>2</sup> |
|---------------------|-----------|------------------|--------|---------|----------------|
| <i>O. annularis</i> | Intercept | -0.57 $\pm$ 0.05 | -12.24 | <0.001  |                |
|                     | log(Chla) | -0.5 $\pm$ 0.03  | -19.82 | <0.001  | 0.77           |
| <i>O. faveolata</i> | Intercept | 0.12 $\pm$ 0.09  | 1.38   | 0.2     |                |
|                     | log(Chla) | -0.89 $\pm$ 0.04 | -19.87 | <0.001  | 0.85           |
| <i>M. cavernosa</i> | Intercept | -0.57 $\pm$ 0.08 | -6.83  | <0.001  |                |
|                     | log(Chla) | -0.55 $\pm$ 0.04 | -13.44 | <0.001  | 0.63           |
| <i>P. strigosa</i>  | Intercept | -0.23 $\pm$ 0.09 | -2.59  | <0.05   |                |
|                     | log(Chla) | -0.73 $\pm$ 0.05 | -15.93 | <0.001  | 0.81           |

**Supplementary table S4:** Statistics, intercept ( $\pm$ SE) and slopes ( $\pm$ SE) per species of the independent variables used in the linear regression equation between  $a^*_{chl a}$  and symbiont density.

| Species             | Variables | Estimate         | F      | p-value | R <sup>2</sup> |
|---------------------|-----------|------------------|--------|---------|----------------|
| <i>O. annularis</i> | Intercept | -1.32 $\pm$ 0.02 | -62.88 | <0.001  |                |
|                     | log(Chla) | -0.47 $\pm$ 0.04 | -11.58 | <0.001  | 0.61           |
| <i>O. faveolata</i> | Intercept | -1.33 $\pm$ 0.04 | -36.75 | <0.001  |                |
|                     | log(Chla) | -0.69 $\pm$ 0.07 | -9.75  | <0.001  | 0.48           |
| <i>M. cavernosa</i> | Intercept | -1.56 $\pm$ 0.02 | -69.17 | <0.001  |                |
|                     | log(Chla) | -0.41 $\pm$ 0.06 | -6.74  | <0.001  | 0.37           |
| <i>P. strigosa</i>  | Intercept | -1.53 $\pm$ 0.02 | -67.09 | <0.001  |                |
|                     | log(Chla) | -0.55 $\pm$ 0.08 | -7.29  | <0.001  | 0.39           |

**Supplementary table S5:** Statistics and slopes ( $\pm$ SE) per species of the independent variables used in the multiple linear regression equation between absorbance and symbiont density and Ci.

| Species             | Variables                                          | Log-log slope    | F     | p-value | R <sup>2</sup> |
|---------------------|----------------------------------------------------|------------------|-------|---------|----------------|
| <i>O. annularis</i> | Symbiont density ( $\times 10^6 \text{ cm}^{-2}$ ) | $0.26 \pm 0.02$  | 15.38 | <0.001  |                |
|                     | Ci (pg Chla sym <sup>-1</sup> )                    | $0.29 \pm 0.04$  | 8.37  | <0.001  | 0.77           |
| <i>O. faveolata</i> | Symbiont density ( $\times 10^6 \text{ cm}^{-2}$ ) | $-0.05 \pm 0.04$ | -1.19 | 0.24    |                |
|                     | Ci (pg Chla sym <sup>-1</sup> )                    | $-0.12 \pm 0.04$ | -3.28 | <0.01   |                |
|                     | Symbiont density : Ci                              | $0.22 \pm 0.08$  | 2.73  | <0.01   | 0.36           |
| <i>M. cavernosa</i> | Symbiont density ( $\times 10^6 \text{ cm}^{-2}$ ) | $0.21 \pm 0.02$  | 9.80  | <0.001  |                |
|                     | Ci (pg Chla sym <sup>-1</sup> )                    | $0.16 \pm 0.04$  | 4.15  | <0.001  | 0.52           |
| <i>P. strigosa</i>  | Symbiont density ( $\times 10^6 \text{ cm}^{-2}$ ) | $-0.08 \pm 0.06$ | -1.33 | 0.19    |                |
|                     | Ci (pg Chla sym <sup>-1</sup> )                    | $0.01 \pm 0.02$  | 0.56  | 0.58    |                |
|                     | Symbiont density : Ci                              | $0.26 \pm 0.08$  | 3.31  | <0.01   | 0.50           |

**Supplementary table S6:** Statistics and slopes ( $\pm$ SE) per species of the independent variables used in the multiple linear regression equation between  $a^*_{\text{chl}a}$  and symbiont density and Ci.

| Species             | Variables                                          | Log-log slope    | F      | p-value | R2   |
|---------------------|----------------------------------------------------|------------------|--------|---------|------|
| <i>O. annularis</i> | Symbiont density ( $\times 10^6 \text{ cm}^{-2}$ ) | $-0.5 \pm 0.03$  | -15.66 | <0.001  |      |
|                     | Ci (pg Chla sym <sup>-1</sup> )                    | $-0.51 \pm 0.07$ | -7.59  | <0.001  | 0.77 |
| <i>O. faveolata</i> | Symbiont density ( $\times 10^6 \text{ cm}^{-2}$ ) | $-0.83 \pm 0.04$ | -21.92 | <0.001  |      |
|                     | Ci (pg Chla sym <sup>-1</sup> )                    | $-1.15 \pm 0.07$ | -17.30 | <0.001  | 0.88 |
| <i>M. cavernosa</i> | Symbiont density ( $\times 10^6 \text{ cm}^{-2}$ ) | $-0.53 \pm 0.05$ | -11.38 | <0.001  |      |
|                     | Ci (pg Chla sym <sup>-1</sup> )                    | $-0.63 \pm 0.08$ | -7.65  | <0.001  | 0.62 |
| <i>P. strigosa</i>  | Symbiont density ( $\times 10^6 \text{ cm}^{-2}$ ) | $-0.74 \pm 0.04$ | -18.02 | <0.001  |      |
|                     | Ci (Chl a Symbiont <sup>-1</sup> )                 | $-0.88 \pm 0.06$ | -14.90 | <0.001  | 0.83 |