

Supplementary material

Biochemical composition during the reproductive cycle of a novel gastropod resource from Atlantic Patagonia

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Table S1. Biochemical composition of consumed marine invertebrates

Species	Region	Protein (%)	Lipid (%)	Carbohydrates (%)	References
<i>Nacella magellonica</i>	Argentina	29.8	2.7	1.8	Nieto-Vilela <i>et al.</i> (2019)
<i>Odontocymbiola magellanica</i>	Argentina	48.2	0.3	6.2	Cumplido <i>et al.</i> (2020)
<i>Buccinanops deformis</i>	Argentina	56.3	0.3	6.5	Cumplido <i>et al.</i> (2020)
<i>Buccinanops cochlidium</i>	Argentina	57.4	0.5	1.4	Cumplido <i>et al.</i> (2020)
<i>Trophon geversianus</i>	Argentina	54.1	0.3	2.8	Cumplido <i>et al.</i> (2020)
<i>Tegula patagonica</i>	Argentina	28.8	1.36	1.7	Current study
<i>Turbo militaris</i>	Australia	16.2	5.6	3	Ab Lah <i>et al.</i> (2017)
<i>Lunella torquata</i>	Australia	18.03	8.46	2.92	Ab Lah <i>et al.</i> (2017)
<i>Lunella undulata</i>	Australia	18.49	8.46	2.92	Ab Lah <i>et al.</i> (2017)
<i>Strombus gracilior</i>	Costa Rica	19–27	0.9	1.3–1.9	Jiménez-Arce (1993)
<i>Haliotis varia</i>	India	68–76	2–6.6	0.98–6	Najmudeen (2007)
<i>Bursa spinosa</i>	India	22.1	2.8	4.4	Babu <i>et al.</i> (2010)
<i>Xancus pyrus</i>	India	37.2	4.3	14.5	Govindarajalu <i>et al.</i> (2016)
<i>Hexaplex trunculus</i>	Tunisia	15.86	1.14	1.47	Gharsallah <i>et al.</i> (2010)

References

- Ab Lah, R., Smith, J., Savins, D., Dowell, A., Bucher, D., and Benkendorff, K. (2017). Investigation of nutritional properties of three species of marine turban snails for human consumption. *Food Science & Nutrition* **5**(1), 14–30. [doi:10.1002/fsn3.360](https://doi.org/10.1002/fsn3.360)
- Babu, A., Kesavan, K., Annadurai, D., and Rajagopal, S. (2010). *Bursa spinosa* – a mesogastropod fit for human consumption. *Advance Journal of Food Science and Technology : AJFST* **2**(1), 79–83.
- Cumplido, M., Marinho, C., and Bigatti, G. (2020). Nutritional composition of Patagonian marine gastropods during reproductive seasonality. *Journal of the Marine Biological Association of the United Kingdom* **100**, 567–576. [doi:10.1017/S0025315420000454](https://doi.org/10.1017/S0025315420000454)
- Gharsallah, I., Vasconcelos, P., Zamouri-Langar, N., and Missaoui, H. (2010). Reproductive cycle and biochemical composition of *Hexaplex trunculus* (Gastropoda: Muricidae) from Bizerte Lagoon, northern Tunisia. *Aquatic Biology* **10**, 155–166. [doi:10.3354/ab00275](https://doi.org/10.3354/ab00275)
- Govindarajalu, J., Muthusamy, A., Gurusamy, C., Mani, K., and Arumugam, K. (2016). Comparative studies on biochemical analysis of some economically important marine gastropods along Gulf of Mannar region, southeast coast of India. *Journal of Coastal Life Medicine* **4**(6), 444–447. [doi:10.12980/jclm.4.2016J5-199](https://doi.org/10.12980/jclm.4.2016J5-199)
- Jiménez-Arce, G. (1993). Chemical and nutritional composition in the marine snail *Strombus gracilior* (Mesogastropoda: Strombidae) of various sizes and sexes in Playa Panamá, Costa Rica. *Revista de Biología Tropical* **41**(3), 345–349.
- Najmudeen, T. M. (2007). Variation in biochemical composition during gonad maturation of the tropical abalone *Haliotis varia* Linnaeus 1758 (Vetigastropoda: Haliotidae). *Marine Biology Research* **3**, 454–461. [doi:10.1080/17451000701696252](https://doi.org/10.1080/17451000701696252)
- Nieto-Vilela, R. A., Cumplido, M., González-Giorgis, Y., Gil, M. N., and Bigatti, G. (2019). Reproduction and nutritional values of the edible limpet *Nacella magellanica* (Gastropoda: Patellogastropoda). *Scientia Marina* **83**, 237–288. [doi:10.3989/scimar.04825.06A](https://doi.org/10.3989/scimar.04825.06A)