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Nota di contenuto	Intro -- Contents -- Introduction -- Orsten"-type fossils -- History of phosphatocopine research -- Prior assumptions on the systematics of Phosphatocopina -- Soft parts and new perspectives about the phylogeny -- Scope and aims -- Material and methods -- Material -- General information -- Statistical data -- Stratigraphy -- Methods -- Isolation of specimens (not done for this work) -- Preparation for SEM -- Measurements -- Terminology -- Systematics -- Crustacea BrOnnich, 1772 -- Phylogenetic analysis -- Results -- Hesslandona MULLER, 1964 -- Hesslandona abdominalis Hinz-Schallreuter, 1998 -- Hesslandona reichi Hinz-Schallreuter, 1993 -- Hesslandona unisulcata Muller, 1982 -- Hesslandona necopina MULLER, 1964 -- Hesslandona kinnekullensis MULLER, 1964 -- Hesslandona trituberculata (Lochman

& Hu, 1960) Rushton, 1978 -- *Hesslandona ventrospinata* GrUndel in GrUndel & Buchholz, 1981 -- *Hesslandona suecica* n. sp. -- *Hesslandona angustata* n. sp. -- *Hesslandona curvispina* n. sp. -- *Hesslandona toreborgensis* n. sp. -- *Trapezilites* Hinz-Schallreuter, 1993 -- *Trapezilites minimus* (Kummerow, 1931) Hinz-Schallreuter, 1993 -- *Waldoria* Griindel in GrUndel & Buchholz, 1981 -- *Waldoria rotundata* Griindel in Griindel & Buchholz, 1981 -- *Veldotron* Grundel in Grundel & Buchholz, 1981 -- *Veldotron bratteforsa* (Muller, 1964) Hinz-Schallreuter, 1993 -- *Falites* Muller, 1964 -- *Falites fala* Muller, 1964 -- *Vestrogothia* Muller, 1964 -- *Vestrogothia spinata* Muller, 1964 -- Discussion -- Comparative morphology -- Phylogenetic analysis of Phosphatocopina -- General remarks -- Reconstructed phylogeny of Phosphatocopina -- Phosphatocopina ("Phosphatocopida sp." + *Euphosphatocopina* new name -- *Phosphatocopida* sp. -- *Euphosphatocopina* new taxon -- *Vestrogothia spinata* -- NNI (*Falites fala* + *Hesslandonina*) -- *Falites fala*.
Hesslandonina (*Cyclotronidae* + *Hesslandonidae*) -- *Cyclotronidae* (*Veldotron bratteforsa* + *Cyclotron lapworthi*) -- *Veldotron bratteforsa* -- *Cyclotron lapworthi* -- *Waldoria rotundata* -- *Hesslandonidae* (*Trapezilites minimus* + *Hesslandona*) -- *Trapezilites minimus* -- *Hesslandona* -- *Hesslandona unisulcata* -- *Dorsospinata* new taxon -- NN3 (*Hesslandona kinnekullensis* + NN4) -- *Hesslandona kinnekullensis* -- NN4 (*Hesslandona toreborgensis* n. sp., *H. angustata* n. sp. + *H. suecica* n. sp.) -- *Hesslandona toreborgensis* n. sp. -- *Hesslandona suecica* n. sp. -- *Hesslandona angustata* n. sp. -- NN5 (*Hesslandona ventrospinata* + NN6) -- *Hesslandona ventrospinata* -- NN6 (*Hesslandona trituberculata* + NN7) -- *Hesslandona trituberculata* -- NN7 (*Hesslandona necopina* + *Hesslandona curvispina*) -- *Hesslandona necopina* -- *Hesslandona curvispina* n. sp. -- Consequences of the proposed phylogeny of Phosphatocopina -- Crustacean phylogeny -- Ground pattern of Crustacea -- The ground pattern of Labrophora Siveter, Waloszek & Williams, 2003 -- Ground pattern of Phosphatocopina -- Ground pattern of Eucrustacea -- Conclusions -- Future investigations and prospects -- Acknowledgements -- References -- Appendix A - Data for the phylogenetic analysis -- PAUP settings -- List of all coded characters -- Character matrix -- Appendix B- Synonymy of Phosphatocopine taxa -- Possible Phosphatocopine taxa -- Possible Phosphatocopines, described in open nomenclature.

Sommario/riassunto

A detailed investigation of Phosphatocopina Fossils and Strata, Number 49: Morphology, Ontogeny, and Phylogeny of the Phosphatocopina (Crustacea) from the Upper Cambrian Orsten of Sweden presents a detailed look at Phosphatocopina through the rigorous lens of modern scientific study. Fully examined here in study form, this monograph details methods, materials, systematics, phylogenetic analysis and more to bolster discussion and back analyses of comparative morphology. Extensive figures and photos clarify qualitative data, while detailed explanation of analysis methods provide a firm foundation for conclusions and future research.