



Horst-Dietrich Otto

Evolution and Heredity



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Preface

My retirement from the function of the head physician of an ENT-clinic in Berlin was in January 2003 in my 66th year of life. Before, I was employed besides to my main professional, clinical occupation also with scientific investigations about the genesis of endogenic *malformations*. After my retirement, I continued this aim further, upon which in 2017 a big (2 volumes) and 2018 a small monograph appeared.

Present publication constitutes the logical continuation and at same time my conclusive insights on this scientific area. These deal with the already died out animals and the up to now not solved problems of *evolution* and of *heredity*. Both areas are very closely bound together. Preliminarily, it was necessary to analyse the evolutionary process, mostly being in the far distance back and including very many groups of species:

1) How did arise at about 250 mills years ago in the cold-blooded (poikilotherm) Therapsida the warm-bloodedness (homeothermy) upon the base of the simultaneously altering structure of the both bilateral symmetric temporomandibular joints? Then further questions appeared into the foreground:

2) Why do the fossil species, that means petrified species from earlier eras – invertebrates and vertebrates – without exception show a *bilateral symmetrical*, gradual *altering* and therefore *hereditary* habitus? – These strikingly contrasts with the *monocular malformations* of living individuals, (locat-

ed at the right *or* left *or* at the median place), which are *not* hereditary. The last essentially frequently occur, but in *fossil materials* they at no time are found.

3) Why not until about 40 mills years before some Mammalia have altered to the semiaquatic and then to the full aquatic mode of life – firstly seals, then sirens and finally whales? But Mammalia are already present about 170 mills years ago.

4) Bilateral symmetric constitution of all creatures is accepted by all scientists and laymen as natural – without search of this phenomenon. Through which it is caused?

5) Since about one milliard years continuing, stepwise higher development of the creatures without doubt bases on *heredity*. That means, it bases on a genetical establishment of the alterations, registrated at always bilateral symmetric habitus. What kind of – until now unknown and repetitively equal – effective mechanism of *evolution* makes *heredity* possible?

Finally, the clear solution of all here risen and some other questions succeeded:

Like often occurring, following sentence proved as authentic:

“Simplex sigillum veri”. (Simple is the seal of truth).

Thanks

My partner Sieglinde Fuchs allowed me to share with her my most actual ideas about development and heredity in numberless opportunities. My great thanks belong to her. She listened always to me patiently, sensibly and with interest, and she never gave me the impression, that she was fed up to the teeth.

When my son Thomas has visited me in Wandlitz, I used very often his experienced knowledge about the digital world. He always helped to answer my questions or to demonstrate, if necessary, on the PC. By that own time-consuming attempts with “trial and er-

ror” have been spared for me. For it I give him my special thanks.

My school friend Renate Strecker, living in Berlin, has studied English. She helped a lot in the correction of my English manuscript. This scientific text, strange for her, became revised very sensible in simultaneous and fruitful dialogues with me. To her my very most thanks too.

As in my preceded publications about the pathogenesis of *endogenic* malformations, the utzverlag GmbH again fulfilled all my wishes very well. Thank you.