## POOR DOCUMENT

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up" by singeing so it won't bleed to death and fall out. But science, with its eye glued to the microscope, has known for a decade that a hair is just a flexible column of tiny, overlapping, horny plates about as hollow as a stack of dishes. It has, furthermore, long suspected it to be only a variation by nature of the skin of the serpent, the shell of the turtle, the plumes of the winged peoples of the air, and with its coloring due to exactly the same causes that make the diamond-back rattler the leadly blond of its family and the bird of paradise the Beau Brummel of the feathered

By the discovery of the complete fossil of a most spectacular dinosaur, a prehistoric monster that lived on the Isle of Wight all of 100,000,000 years ago, all these suspicions of science have been confirmed and it is now able to tell you exactly where we got our hair and how. The reason for the belated announcement, just published in the English scientific journals, is almost as curious as the discoveries themselves.

It seems that Dr. D. W. S. Watson, who is the foremost British expert in such matters, had the study of the dinosaurs in hand. He had barely time to christen it Polacanthus-meaning "many spined"-before the ex-Kaiser started marching his troops into Belgium. Dr. Watson, who is no relation, by the way, of the Boswell of the famous Sherlock Holmes, and who. indeed, can deduce more from one fossil tooth than Doyle's super-detective could from a hundred sets of modern false ones-Dr. Watson happened to be also the best swordsman in England. The military authorities therefore took him from his laboratories and set him to work training soldiers to cut up the Germans scientifically. None of Dr. Watson's colleagues

would touch the dinosaur, because that would not have been ethical. Hence Polacanthus had to stay on the shelf

As soon as the armistice was signed Dr. Watson went back to his Isle of Wight fossil. The results of his study of it since then have given it the title of "the father of hair," since it was the first creature with a hair upon earth! right in thinking that Mary Pickford's serpents, quills of the porcupine, plates of our heredity. of the turtle and the armadillo and the

there softened down into quills and the quills into coarse hairs. Polacanthus. in fact, carried on its back the whole hair factory; was a living the hair developed from the huge, coarse plates that guarded its vital organs. Now, while the dinosaurs were originally not included in the line of direct descent

of man and mammals, it is a

The African are arranged differently. That is why, too, she can

It has proven that science was exactly came from them. The peculiarities of scales. And again, after a long while, curls, the fur of animals, the scales of their place in the immemorial temples spines grew longer and thinner and be-

From the study of him it now seems

fact that more and more scientists are that our hair came about this way: ning to think that some way, some- First, there was a reptilian ancestor how, they stamped their characteristics with huge plates for skin. Through on all living things. In other words, certain causes some of these plates bescience is slowly and reluctantly ad- came smaller and changed in shape. Bemitting the reptilian monsters to the tween them then began to grow short shade of the family tree of man. There spines or quills. All these plates and is no doubt, of course, that the birds spines were, however, made up of horny Polacanthus have done much to insure millions of years undoubtedly, these

scales that now cover them. came coarse hairs. When the mammals began to evolve. first taking the air by great leaps and scendant of Polacanthus. The echidna saur.

Looking at Mary

Pickford's pretty

tion of millions,

you would not think that they are

just the same stuff

as bird's feathers

and snake's scales

are made of. But

science says, like

every woman's, they are!

whole mammalian species. The arrangement of scales that make up the fur of every animal is dif-

And the scales that make up the hair belle, the African beauty, the yellow and the brown charmers, are just as different. The lens reveals not only the race of the woman to whom the hair belonged, but also her nationality-

geographically speaking-by the varying arthe ancient reptilian armor plates have shrunk to!

Of this dinosaur Polacanthus men exists. The fact that it lay imbedded in the shaly clay beds rant such minute

the only living descendant of the hairy dinosaur the scales and plates decreased in size much over three feet high, walking on hair of men grows as long as women's and the hair-which, it must be remem- all fours, and probably not much over -sometimes nine feet. In Europeans bered, is, under the microscope, nothing but a great number of scales built up bones with their large joints speak of imbut a great number of scales built up When man finally appeared the plates limbs and the welding of loins and sacrum and thirty inches. The hairest races of his reptilian ancestors had softened into a long, flexible rod suggest an ab- are the Australians and the Tasmanand shrunk into what we call our skin. Under the microscope this is seen to be only myriads of tiny scales which we shed continually. The reptilian spines a young dinosaur. If so, the adults were races are the yellow, the Indians and of much greater size."

The Echinda, part mammal, part bird, part reptile,

in a certain fashion-became thicker.

The snakes, not needing hirsutage be-

became our hair.

cause of their crawling habits, kept the when through with their examinations haired girl is a freak, scientifically old plates in the modified form of the to find that a strange little creature speaking. A beautiful freak as a rule, called the echidna and which lives in but still no less a freak. The reptilian ancestors of the birds, Australia is apparently the direct de-

came out of the shell, one-half inch long, absolutely naked. They had weak hind legs and strong forelegs, for burrowing. They grew to be two inches long in November and were ten inches long in February. There was still no trace of webs between the toes. They clung to mamma in the burrow for of the Caucasian seven months, then cast loose to go their own gait. During the seven months in the burrow, they fed on milk which leaked through the pores of the skin of the maternal pouch. The females have no breasts, like mammals which bear their young alive. The adult beak is very soft and feels like a dog's nose, yet looks like a kid glove."

The queer little echidnas and the one fossil in the British Museum are all that rangement of remains of the old dinosaur Polacanthus as he was. But his scales and spines and bristles still live in the hair upon which we expend so much admiration,

care and, when it leaves us, sorrow. The question arises, of course, as to how the echidnas got all the way down to Australia, so far from the Isle of Wight, where their direct ancestors roamed. The answer is that in those days the present oceans did not exist. One could walk from Australia to Brazil and from Brazil to Europe.

Dr. Pruner-Bey, in his Memoires de la societe d'anthropologie, says that there is no test that has proved, on Wight explains repeated examination, to be a safer one of racial purity than the quality were enough pre- of hair. The hair of an individual bears the stamp of his origin, he avers.

In conclusion, here are some curious, observations. It little known facts about hair. Straight is thus described: hair is the longest, wooly the shortest. "Probably not In the Chinese and Indian races the mense muscular power. The shortness of women's grow to between twenty-five sence of agile, lithesome movements. He ians. Traces of a hairy tribe almost as was, apparently, a slow, vegetable feeder. furred as the monkeys are found among The specimen may, however, be that of the Rusian peasantry. The least hairy

the Mongols. Most astonished were the scientists There are no red haired races. A red

