doubt that the astute Molwiya was far better qualified to guide the mighty empire. The author, however, still places himself at a point of view unfavourable to the Omanuda. We by no means wish to imply that the frivolous Yeald L., father, was in any respect a model prince, but it is altogether unhistorical to place him, as the author does, on a level with the mad insurrection of Hosain and to chastise the hypocritical inhabitants of the holy cities. The Araba have really no reason to be ashamed of their thoroughly national royal house, to which the great princes Molwiya and Abdalmalik belonged; though the roots of their power did not, it is true, lie altogether in religion and consistent fidelity to the doctrines of the prophet whose successors they claimed to be. The men of powerful intelligence, in which the Mekka aristocracy was singularly rich, had for the most part opposed the prophet with all their strength, but as soon as his authority was established they placed themselves at the head of the further movement. We find Koraishites everyof Omaiya, which had fought most obstinately against Mohammed, soon obtained the throne. But the religious and historical tradition was mainly in the hands of the zealous adherents of the prophet, who were hostile to the dynasty by which they were kent in the background, and fayourable As soon therefore as the Omaiyads were overthrown the "learned" no longer had any motive for judging them favourably, and historians of the present day are consequently of the difficulty which even the most cultivated and intelligent inquirers find in freeing themselves from the miscon-

ceptions amongst which they have grown up.
Many other signife points sight be discessed, or we might
deed on the naive tryly of historical concessed, and they
deed on the naive tryly of historical concessed on the contraction of the contract of the contract procedure in the
deed of the contract procedure of the German situation of the
primary of the present contrary; but we have already exceeded
our limits. In conclusion we would rather insist again on
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deed to be contracted on the contract of the
has opinion that Mohammed's teaching agrees with the highent demands of humanity, it is eminemly satisfactory that
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Contents of the Journals.

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## New Publications.

Brita, Th. With Community. Edition by Rev. F. C. Code, Vol. 111.
General, V. W. Tha New Bulks Communitary, No., Critically Emmined.
Baseries, V. W. Tha New Bulks Communitary, No., Certificially Emministed.
Baseries. Workshow 1966. by Rev. John Kolde. Vol. 4 of Klaberies.
General Code, V. C. Code, V. Co

## Science.

The Expression of the Emptions in Man and Animals. By Charles Darwin. London: John Murray. The publication of a new week from Mr. Darwin's pen is

an event of scientific as well as of public importance, and in the double appear in becomes a task a difficult a responsible to prepare a notice of such a book. As expans the extractor in however, and the such a such as the such may be, he may be certain that it will not suffice for the such of the books one sided, where criticis may prehap find themselves impelled on less important points to controvert does not be the such as the s

If however we do not altogether refrain from discussing the new book lying before us, our main object is to give our readers an idea of the fresh fields explored by the great naturalist.

readers an idea of the fresh fields explored by the great naturalist.

How often it has been stated that among the chief privileges of man as contrasted with the lower animals is the great gift of physiognomical expression—a gift which seemed all the more peculiarly harmon as it became obvious man of the man and the state of the insurantial control of the insurantial

thetes ecospoid limited in thinking over the principles of wh. Derew historia, in the functionation of his work, given Mr. Derew historia in the functionation of his work, given the functional control of the presentence with the strendis exclude. For it is not an advanced on the function of the presentance with the strendis exclude. For it is not an advanced on the function of th

It is not so much physiognomy, however, that constitutes the main subject of interest in the new book as the Darwin swinn showy which lies before us in a now guive where we wishin show the property of the produce of the Darwin has in fact fulfilled any property of the produce of the Darwin show the fulfilled and produce of the Darwin of Man, of which week it forms a part and may be considered the third volume.

It is not the anatomy nor incided can it be called the

physiology of expression of which Mr. Darwin treats. His object is rather to trace its origin in the anceston of man, and to give at expensition of the principles irrobved in the different modes of expression in man as well as in other arisinals.—
Mr. Darwin is always bound to face a considerable difficulty in all that he writes. Having originated the doctrine

forms of organic life. In truth, there is no one who has done so much to search out the hidden corners where the action of Natural Selection is to be recognised, and where this principle alone gives a satisfactory explanation of problems hitherto unsolved. Writers in the Resus des deux Mondes and other journals

Wristers in the Revue des deux Monder and other journals and books may use every effect to convince their readers that the theory of descent is not Mr. Darwin's great achievement, but is due chiefly to Lamarck and others; it nevertheless remains a simple truth that Mr. Darwin's elucidation of the

a acuai influence of Natural Selection throughout the whole organic world has been the-means of overshrowing the old decrines of separate Creation—will held by some master even of high rank, and betieved in by all those who cling to old traditional beliefs rather than to new scientifies the stage of the state of the stage of the

seemen where the core principle builty the exceeding and exposure, it assertables held that you in State State and exposure, it assertables held that you is State and exposure, it assertables held that you is State and the control of the state and the control of the control o

is the strengtle for existence (which would bring it within the formulae Patients) Subscules) it may appear as if the three principles of expression do not come within the range of the discussion.

The first of these principles is that movements which are serviceable in gratifying a desire, or in relieving a sensation of in the present of the principles is that they are performed, whether they are of any serviceable in the strength of the principles.

or of any service or not, whenever the name of cheire or sensation is felt even in a very slight degree.

The three peiaciples with the many instances by which they are litarated in Mr. Davin's book are of interest control of the sensation of the policy of the sensation of the

Feedbroints by an endelevour to show the direct induces to the control of the test, why in short if has notyping whatever to do said test, why in short if has notyping whatever to do said test, why in short if has notyping whatever to do said test, but in the control of the document of the control of the

in man is only to be understood by his relationship of the bower animals, and thus a special physiogenomical function of man is derived from another more or less defensive function of these animals.

A similar movement, and one only to be interpreted with the protrustion of the days in a program of the days in the protrustion of the days in a program of the days in the protrustion of the days in a program of the days in the protrustion of the days in a program of the days in the protrustion of the days in a program of the days in the protrustion of the days in the

scorn: In itself it is useless and would have no meaning, but viewed as an offspring of animal function it is clearly understood. A great number of other instances of a like kind might be quoted from Mr. Darwin's book.

Regarded from a biological point of view this book derives its chief interest from being a successful assemut to trace

the origin of special functions, to introduce the theory of Evolution into the domain of physiology. Here it seems we do meet with an element not strictly an essential constituent of the theory of Natural Selection, for

as Natural Selection tends to preserve only what is useful and serviceable for the struggle of estimate, association, as an extra careful beneficial ought not to be relational, and contactily performing opposite movements under opposite impulses has become so firmly established in as by the obstatility performing opposite movements under opposite impulses has become so firmly established in as by the regular performance of the control of

This principle points will more directly us a hidden most where actions specific. The former finds to a book for an absence action specific and the second state, while the more-most which Mr. David such interest about, while the more-most which Mr. David such interest and the second secon

The origin of functions is a question as yet almost wholly untouched. The discussion of this strange subject leads us of necessity to another of an equally remarkable nature, namely, the active and passive resistance which the theory of Descent finds in more than one physiological school. In earlier wars, when whether the experiment almost experiment experiments.

where in, so in speak, personal minn with manuers, the dislike felt by physiologists for shatters morphology was less market. Though physiology was always regarded as the state of the sta

After Johannes Müller, however, and as soon as the great break happened about the theory of Visilians, engagingly after the publication of Du Boio Reymon's great work on Thereake Education, physiologous in general get unless out of the shalt of carefully studying anatomical or morphologoial problems, which is some quarters there group up the idea that implicating was not so much a science as an amassement to which on might devote ord attention if one close, but which would exercise no influence on the great market of human ideas, and through a waref of method general market of human ideas, and through a waref of method

and exactness could scarcely be termed a science. Exactby new came to be identified with experimental research, and
physiological laboratories provided with complex apparation
and frogs, rabbots, and dogs and other animals, were considered the choir tributal, before which life was challenged
to confess its latest secrees.

There can be no nessing that this late of all relations of the confession of th

Section 1 and 1 an

make a new at book best?

The state of the s

morphilogy became once more of squal importance, and one might perhaps soph that a present morphology has inclaims to be held the greate. Such a claim however would be to win and under, for it is impossible that playingly about four longer richey to adopt with equal energy that the long longer richey to adopt with equal energy that the long longer richey to adopt with expand energy by so doing range moid once more deals be noted in supplying —any, and mixace so entirely the ductrine of Evolution that a break between playingly and morphology, we has has entered during this that trentry or thirty years, will be a longer than the supply of the property of the property of Andit cannot be questionted that the wast of playingly and

will be to investigate the origin of functions. If it be tent that all origination now living ant the descendants of forms living core, and that there former living ones possessed that the contract of the contract of the contract of the trace and only the change and differentiation of the origin, and the contract of the physiology must not restort in temperature to the contract of the contract to body in sinter science, and how rich in questions which can in part it is taudied to solve except by alliance with

This is a powerful spanon for congratulating ourselves or

new ties man and his mental world to animal life and in bodily constitution, but traces a new and highly important line of inquiry with respect to the origin of functions. In showing how in many cases the function of expression emotions has its origin in other functions he has les us to that immense and almost endless path which play slokgy must travense in respect to all and every function in order to attain that point where life itself becomes but a function of matter, a part of which Spinoza determined when he said, "Curas susentia est existentia."

the appearance of Mr. Dagwin's new book

ÁNTON DOMEN. Notes on Scientific Work

few Tertiary Mazzznala.-Prof. O. C. March describes some new

of Yale College. A study of additional specimens of Consequent has led to its separation from Anadalterians and shown it to haid an interregulard with education in the proportions. The other permulars. The adding and when are repeated. This openion differs from (I. passeible in aring the inner cones of the upper moises more nearly of equal size. aring the total clear of the upper mome many and and addition and addition that and redge. The astimal was much as large a dos. The new genton Coloniorus cliffers from Alymentum and Madalon, so the as they are yet known, in possessing a pair of formal orte on the asset bosies, which are placed opposite ands other. In C.

A. Marakiwa. This species is Experies from the Crapus Knowne. Another new species of this genus A. Congrammi, small larger than those of the Micene, occurs in the Plincene deposits of Cragos. One

the specimens found is a penaltimate apper molar which differs riddy from the corresponding touth of any of the known mention. named. The antityor even amo is created, a strong cream owng as weards and backwards from the posterior side into the main tenserous afley. (dear, Nov. of Ociono, May, 1875, 487.) A Bird flows the Supetime Clay.—M. F. J. Van Bennfen has em-sized (An-Veix Acad. Siry, for Scenery, 1872, No. 4, p. 354) the final seasing of a bird from the Rupellan clay of the Wars country, sent to be Belgian Academy of Sciences by Dr. Van Rammfonde, They can-

shells, and fight. Amodated with the remains were numerous fire treplements and a few worked in home, as well as a number of parts

The Geology of Mozza Lelizone, Vassilan, M. A. Gooley on ultiwan in the French Anademy of Sciences some densits of the geology of Mozza Lelizone. The mass of the senset contain of lower called once nocks, as infinancia in the prointpoil chart of MM. Defreigness once nocks, as infinancia in the prointpoil chart of MM. Defreigness once nocks, as infinancia in the prointpoil chart of MM. Defreigness size he set on maching its numeric. Between Convern and Calculus & Algan the lower tellulary contains of molesus, the lower land of while

eyer par years can a resistant toom in which are embedded squantite of dispersion, Etimosomy, Genetics, for. M. Gendry remarks that the comparison of the measurable remarks of the upper and the marine mediums of the lower bath gardy, to continue the observation made by Durwin, 1,241, and binned the observation pairs of the ghote, that the light

Physiology

Mochanics of the Secretion of Ris.—At the meeting of the Medical sciency of Vienna held on the plift of March Furlemor Stricker com-