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Morals and the Medical Scientist

ARMAND J. QUICK, PH.D., M.D.

The story is told that a man approached a group of artisans and inquired what they were doing. From one he received the answer that he was working for five francs a day; from another, that he was laying stones; but from the third, with luster in the man's eyes, that he was building a cathedral. I like to believe that the scene was Chartres and that this man with other kindred spirits brought into being that gem of architecture - the Cathedral of Chartres. There are many cathedrals and not all are built of stone and mortar. Some are allegorical or figurative, like the structure of medicine. This too was built by artisans, many of whom worked merely to gain a livelihood while to others it meant the humdrum of a profession, but to a few who had vision, dedication and inspiration, the structure of medicine took form and to them we owe not only the foundation but also its spires.

What about the rules of conduct or code of morals for these builders we now call medical scientists? Like all men they are first of all human beings with the same basic instincts and weaknesses in which greed and stupidity often dominate, but they are also endowed with idealism. Many are keenly aware of the privilege of working in a field that can add to human happiness by alleviating suffering, improving health and saving lives. Like the artisan of the story who recognized his good fortune in building a cathedral

instead of a bull ring or massive fortress, so the medical scientist should realize his privileg and his obligations. He owes to s iety this opportunity and one of the best means to repay his debt is to seek truth unselfishly and wi out compromise. How beautify v this is illustrated by Gregor A idel, who painstakingly from a st le experiment of growing pea and after careful observations wh he meticthe theory ulously recorded, dedu of heredity that bears s name. It is doubtful whether gave any l value of thought to the pote his work.

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Though the ai research need not b the morality can justifiably quest of eschewing any m. al study that at could help might lead to result is expressed mankind. This att entist: "For by a well-known orld War II many years befor the fact that we were very prouv problem that we were working (ctical relation seemed to have no r." One may to medicine what: ecause it had ask why be prov-- even Nobel no practical val a for practical prizes have been tion to pure contributions. I superior thinkscience may conr be a fetish that ing but it may ai eds of humanity. blinds one to the es of science were Not all great adva made by mental ; nts such as Isaac

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LUNACRE QUARTERLY

Newton or Willard Gibbs. Perhaps the simple milkmaid who told Jenner that those who had cowpox did not contract smallpox deserved a distinguished service award.

Because the scientist is human he does not escape man's primitive instincts, especially greed - that compelling force that underlies the grim law of the survival of the fittest. He lives in a competitive world and to succeed as a leader he must lose no opportunity to foster his progress and to win recognition. If he falls by the wayside and becomes satisfied to follow rather than to lead or in other words, be willing to become a layer of stones, the temptations that arise from greed or from its more sophisticated forms, ambition and aggressiveness, are minimized. He will add no new spires but with honest endeavor he can contribute to the solidarity of the structure.

To the one who has the awareness of building a cathedral will come the joy and exhilaration of creativeness which are difficult to describe but can be gleaned from a statement of Jenner after he had successfully developed vaccination against smallpox: "The joy I felt at the prospect before me of being the instrument destined to take away from the world one of its greatest scourges was so excessive that I sometimes found myself in a kind of reverie." The right of the scientist to enjoy the fruits of his labor is obvious but often denied him. The scientist is human and it is natural that he desires recognition. Even Mendel trained as he was in the practice of humility was not indifferent to the neglect his work received. Philo-AUGUST, 1966

sophically he remarked: Mein tag wird schon kommen. In his case it was fortunate that his theory was ignored for 35 years Had it been given attention, it is likely that so much hostile criticism would have been levied against the theory that poor Mendel would have been discredited and deprived of the acclaim he rightfully attained by a later generation that had no envy for a dead man.

An original and valid contribution has a right to recognition and the scientist does not violate the rule of modesty or humility by fighting for this right, provided he is thatoughly honest. Truth can easily be distorted by omissions, slight distortions and misinterpretations of data, especially when it is supposedly a new discovery. A scientist to deserve the honor of being called great must be fair to his fellow scientists. The desire for recognit on is justified when its objective is to promulgate truth and not merely to gain self-aggrandizement,

Priority by itself is of minor importance and the bitter polemics that it often engenders are soon forgotten. Even men who made outstanding contributions that were accepted and recognized without controversy are rarely remembered one or two generations after their death. How many biochemists are familiar with the name of Chevereul? Yet this man not only lived to be 103 years old but laid the structure of our knowledge of the chemistry of fats. Most men are satisfied knowing that their work served as another stepping stone in the ultimate solution of a problem. A few however who, by chance, luck, or a superior

mind, become, as Jenner expressed it, the "instrument" to a new concept that affects the welfare of mankind, present a special moral problem.

The medical scientist who has made a discovery or who has developed something that is of direct benefit to man has a moral duty to try making it available. Modesty under these circumstances is not a virtue. Perhaps this problem is most effectively illustrated by Semmelweiss and Oliver Wendell Holmes. Both independently deduced the contagiousness of puerperal fever and both warned of the danger of transferring the contagious agent from the postmortem room to the woman in labor. The hostile opposition that these two men faced is history. Semmelweiss fought for his idea literally with clenched fists and sleeves rolled up and died so to speak in the struggle. Holmes, a gentleman from Boston, wrote a learned paper and after vicious attacks by two great authorities from medical centers in Philadelphia wrote another paper, also in impeccable style and eloquent English, to defend his views whereupon he gave up his struggle. Women continued to die in childbed. Semmelweiss was dead and Holmes had become a famous literary figure. Yet it is said Holmes in his heart felt more satisfaction from his two essays on puerperal fever than from the poetry and prose he wrote throughout his long life.

History is replete with similar stories. One of the lesser known is that of the great clinician who lived in the middle of the last century, Armand Trousseau, who with Jules

Guerin in 1838 found fish c beneficial in treating rickets. hough this disease was one of t e most d man, devastating diseases of civil their work was ignored and elittled. ver oil Even Osler regarded cod as a useless grandmother' remedy. or those Who should be blamed 80 years in which rickets w allowed to run rampant — crip ing and nd Chick killing — until Mellanby rediscovered what Trou eau had found?

Perhaps if the visitor of the cathedral had co inquiry he might ha fourth man whose an am in charge of the cathedral and I see to and untried ideas are position is understand he supervises a cath and mortar or the fi ture of medicine. F the multiple panacea stantly offered both but misguided and b

To those then w¹ tion of power and stringent code of m panies responsibili tolerance for new mindedness, justice of kindness. Wh obstinancy, selfish are the motives ti suppress an to remember the made in anguish go on just as we as it does during existence, probably better, for our obstacle will die with me — envy ask himself whener he will be a party to those who would deny the benefits of vaccination to mankind.

inued his found a er was: I as for this that new arred. His le, whether al of stone ative strucknows well hat are conthe sincere e charlatans re in a posiathority, the s that accommust include eas, an openid a modicum unreasonable ide, and envy compel a man ea, he should ement Jenner Vaccination will when I am dead He should then

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