

South Kazakhstan State Pharmaceutical Academy  
*Department of foreign languages.*

SIW

*The theme:* Chemical elements.

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# Chemical element.

Chemical element - a collection of atoms with the same nuclear charge and the number of protons, which coincides with the ordinal (atomic) number in the periodic table. Each chemical element has its own name and character, which are listed in the Periodic Table Dmitri Ivanovich Mendeleev system.

ПЕРИОДИЧЕСКАЯ СИСТЕМА ХИМИЧЕСКИХ ЭЛЕМЕНТОВ Д.И.МЕНДЕЛЕЕВА

www.calc.ru

Периоды	Ряды	ГРУППЫ ЭЛЕМЕНТОВ																Лантаноиды	Актинοиды			
		I	II	III	IV	V	VI	VII	VIII								а					
1	1	1																		2		
2	2	3	4	5	6	7	8	9												10		
3	3	11	12	13	14	15	16	17												18		
4	4	19	20	21	22	23	24	25	26	27	28											
5	5	29	30	31	32	33	34	35												36		
6	6	37	38	39	40	41	42	43	44	45	46											
7	7	47	48	49	50	51	52	53												54		
8	8	55	56	57-71	72	73	74	75	76	77	78											
9	9	79	80	81	82	83	84	85												86		
10	10	87	88	89-103	104	105	106	107	108	109	110											
Высшие оксиды		R <sub>2</sub> O		RO		R <sub>2</sub> O <sub>3</sub>		RO <sub>2</sub>		R <sub>2</sub> O <sub>5</sub>		RO <sub>3</sub>		R <sub>2</sub> O <sub>7</sub>		RO <sub>4</sub>						
Летучие водородные соединения						RH <sub>4</sub>		RH <sub>3</sub>		H <sub>2</sub> R		HR										
ЛАНТАНОИДЫ																						
57	58	59	60	61	62	63	64	65	66	67	68	69	70	71								
89	90	91	92	93	94	95	96	97	98	99	100	101	102	103								



Д.И. Менделеев  
1834–1907

СИМВОЛ ЭЛЕМЕНТА: **Rb**  
ПОРЯДКОВЫЙ НОМЕР: **37**

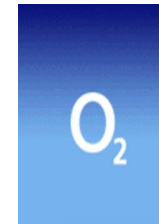
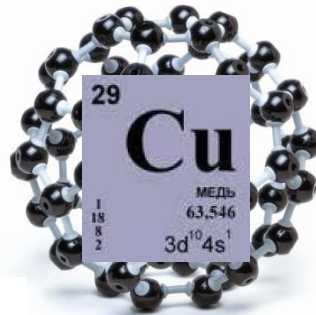
НАЗВАНИЕ ЭЛЕМЕНТА: **РУБИДИЙ**  
ОТНОСИТЕЛЬНАЯ АТОМНАЯ МАССА: **85,468**

РАСПРЕДЕЛЕНИЕ ЭЛЕКТРОНОВ ПО СЛОЯМ:

- s-элементы
- p-элементы
- d-элементы
- f-элементы

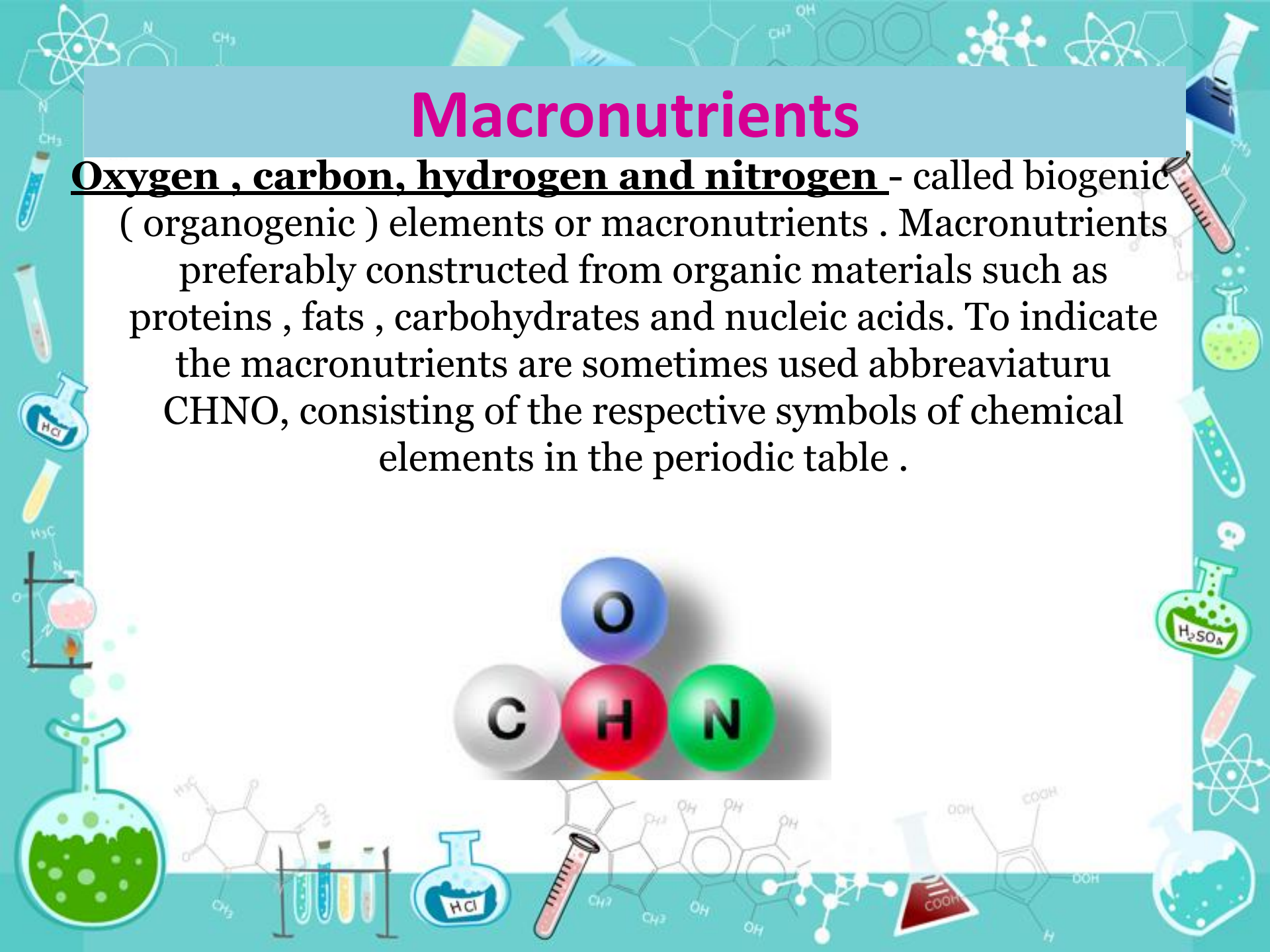
# Chemical elements in living systems.

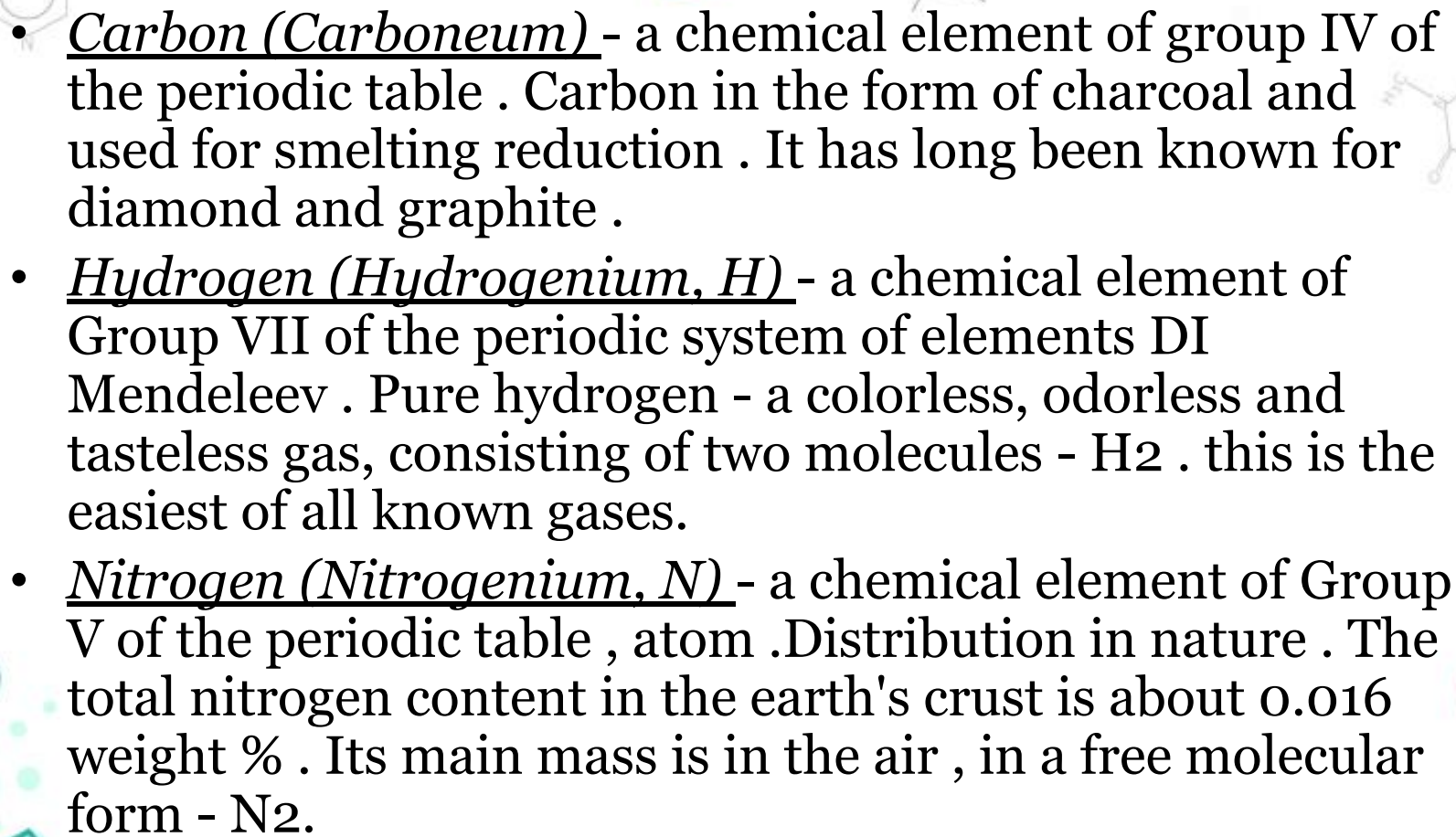
The human body is composed of a plurality of chemical elements which are divided into macro and micro elements. Chemical elements are part of the fabric of which is formed by bodies of living organisms, and are responsible for the ability of certain body function



# Macronutrients

Oxygen , carbon, hydrogen and nitrogen - called biogenic ( organogenic ) elements or macronutrients . Macronutrients preferably constructed from organic materials such as proteins , fats , carbohydrates and nucleic acids. To indicate the macronutrients are sometimes used abbreviaturu CHNO, consisting of the respective symbols of chemical elements in the periodic table .



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- *Carbon (Carboneum)* - a chemical element of group IV of the periodic table . Carbon in the form of charcoal and used for smelting reduction . It has long been known for diamond and graphite .
  - *Hydrogen (Hydrogenium, H)* - a chemical element of Group VII of the periodic system of elements DI Mendeleev . Pure hydrogen - a colorless, odorless and tasteless gas, consisting of two molecules -  $H_2$  . this is the easiest of all known gases.
  - *Nitrogen (Nitrogenium, N)* - a chemical element of Group V of the periodic table , atom .Distribution in nature . The total nitrogen content in the earth's crust is about 0.016 weight % . Its main mass is in the air , in a free molecular form -  $N_2$ .

# Conclusion

The chemical elements that make up the various living systems, including the human body, are a lot. They play an important role in the structure and function of organisms, even though their large or small percentage.

# Internet resources

1. <http://elements.dp.ua>
2. <http://www.firsthealthgallery.com>
3. <http://www.sportpharma.ru>
4. <http://ru.wikipedia.org>
5. <http://office.microsoft.com/ru-ru/>



**Thank you for attention!**