

Nombre: Alfredo Ruiz Panadero

Titulación: Catedrático

Categoría: Director del Grup GBE

Institución: Universitat Autònoma de Barcelona

Formación:

- Licenciado en Ciencias (Biología) por la Universidad Autónoma de Bilbao (1976)
- Doctor en Biología (Genética) por la Universidad de Santiago de Compostela (1984)

Estancias en el extranjero:

- Universidad de Arizona (Tucson, Arizona)
- Childrens Hospital Oakland Research Institute (Oakland, California)
- Universidad de Stanford (Stanford, California)

Actividad de investigación:

Especialización: Genética Evolutiva de *Drosophila*.

Líneas de investigación:

Genómica comparada:

- Tasas y patrones de evolución cromosómica
- Causas y consecuencias de las reordenaciones cromosómicas
- Impacto en el genoma de los elementos transponibles
- Significado adaptativo del polimorfismo cromosómico

Evolución molecular y especiación

Otras Actividades:

- Director (o codirector) de 18 tesis de Licenciatura y Trabajos experimentales de Master y de 11 Tesis Doctorales.
- Coordinador del Grupo de Genómica, Bioinformática y Evolución, reconocido por la UAB y la Generalitat de Catalunya (2005SGR-00892)

{tab=Publicacions}

Publicacions:

Publicaciones:

Es autor de 62 trabajos científicos publicados en revistas del Science Citation Index entre las que destacan Science, Nature, PNAS, Genome Research, Trends in Genetics y Molecular Biology and Evolution. El número total de citaciones recibidas por los 62 artículos es de 1.396 (un promedio de 23,66 citaciones por artículo). El índice h es 22.

- Title: Bottlenecks, population differentiation and apparent selection at microsatellite loci in Australian *Drosophila buzzatii* (vol 102, pg 389, 2009)
Author(s): Barker JSF, Frydenberg J, Gonzalez J, et al.
Source: HEREDITY Volume: 102 Issue: 6 Pages: 626-626 Published: JUN 2009
- Title: Cloning and sequencing of the breakpoint regions of inversion 5g fixed in *Drosophila buzzatii*
Author(s): da Costa OP, Gonzalez J, Ruiz A
Source: CHROMOSOMA Volume: 118 Issue: 3 Pages: 349-360 Published: JUN 2009
- Title: Bottlenecks, population differentiation and apparent selection at microsatellite loci in Australian *Drosophila buzzatii*
Author(s): Barker JSF, Frydenberg J, Gonzalez J, et al.
Source: HEREDITY Volume: 102 Issue: 4 Pages: 389-401 Published: APR 2009
- Title: The Foldback-like element Galileo belongs to the P superfamily of DNA transposons and is widespread within the *Drosophila* genus
Author(s): Marzo M, Puig M, Ruiz A
Source: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA
Volume: 105 Issue: 8 Pages: 2957-2962 Published: FEB 26 2008
- Title: Evolution of genes and genomes on the *Drosophila* phylogeny
Author(s): Clark AG, Eisen MB, Smith DR, et al.
Source: NATURE Volume: 450 Issue: 7167 Pages: 203-218 Published: NOV 8 2007

- Title: Protein polymorphism is negatively correlated with conservation of intronic sequences and complexity of expression patterns in *Drosophila melanogaster*
Author(s): Petit N, Casillas S, Ruiz A, et al.
Source: JOURNAL OF MOLECULAR EVOLUTION Volume: 64 Issue: 5 Pages: 511-518 Published: MAY 2007
- Title: HOM-C evolution in *Drosophila*: is there a need for Hox gene clustering?
Author(s): Negre B, Ruiz A
Source: TRENDS IN GENETICS Volume: 23 Issue: 2 Pages: 55-59 Published: FEB 2007
- Title: Testing chromosomal phylogenies and inversion breakpoint reuse in *Drosophila*
Author(s): Gonzalez J, Casals F, Ruiz A
Source: GENETICS Volume: 175 Issue: 1 Pages: 167-177 Published: JAN 2007
- Title: Fast sequence evolution of Hox and Hox-derived genes in the genus *Drosophila*
Author(s): Casillas S, Negre B, Barbadilla A, et al.
Source: BMC EVOLUTIONARY BIOLOGY Volume: 6 Article Number: 106 Published: DEC 12 2006
- Title: Abundance and chromosomal distribution of six *Drosophila buzzatii* transposons: BuT1, BuT2, BuT3, BuT4, BuT5, and BuT6
Author(s): Casals F, Gonzalez J, Ruiz A
Source: CHROMOSOMA Volume: 115 Issue: 5 Pages: 403-412 Published: OCT 2006
- Title: A BAC-based physical map of the *Drosophila buzzatii* genome
Author(s): Gonzalez J, Nefedov M, Bosdet I, et al.
Source: GENOME RESEARCH Volume: 15 Issue: 6 Pages: 885-+ Published: JUN 2005
- Title: Molecular characterization and chromosomal distribution of Galileo, Kepler and Newton, three foldback transposable elements of the *Drosophila buzzatii* species complex
Author(s): Casals F, Caceres M, Manfrin MH, et al.
Source: GENETICS Volume: 169 Issue: 4 Pages: 2047-2059 Published: APR 2005
- Title: Conservation of regulatory sequences and gene expression patterns in the disintegrating *Drosophila* Hox gene complex
Author(s): Negre B, Casillas S, Suzanne M, et al.
Source: GENOME RESEARCH Volume: 15 Issue: 5 Pages: 692-700 Published: MAY 2005
- Title: Duplicative and conservative transpositions of Larval serum protein 1 genes in the genus *Drosophila*
Author(s): Gonzalez J, Casals F, Ruiz A
Source: GENETICS Volume: 168 Issue: 1 Pages: 253-264 Published: SEP 2004
- Title: Silencing of a gene adjacent to the breakpoint of a widespread *Drosophila* inversion by a transposon-induced antisense RNA
Author(s): Puig M, Caceres M, Ruiz A
Source: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 101 Issue: 24 Pages: 9013-9018 Published: JUN 15 2004
- Title: A new split of the hox gene complex in *Drosophila*: Relocation and evolution of the gene labial
Author(s): Negre B, Ranz JM, Casals F, et al.
Source: MOLECULAR BIOLOGY AND EVOLUTION Volume: 20 Issue: 12 Pages: 2042-2054 Published: DEC 2003
- Title: Low occurrence of gene transposition events during the evolution of the genus *Drosophila*
Author(s): Ranz JM, Gonzalez J, Casals F, et al.
Source: EVOLUTION Volume: 57 Issue: 6 Pages: 1325-1335 Published: JUN 2003
- Title: The Foldback-like transposon Galileo is involved in the generation of two different natural chromosomal inversions of *Drosophila buzzatii*
Author(s): Casals F, Caceres M, Ruiz A
Source: MOLECULAR BIOLOGY AND EVOLUTION Volume: 20 Issue: 5 Pages: 674-685 Published: MAY 2003
- Title: Chromosomal elements evolve at different rates in the *Drosophila* genome
Author(s): Gonzalez J, Ranz JM, Ruiz A
Source: GENETICS Volume: 161 Issue: 3 Pages: 1137-1154 Published: JUL 2002
- Title: Molecular characterization of two natural hotspots in the *Drosophila buzzatii* genome induced by transposon

insertions

Author(s): Caceres M, Puig M, Ruiz A

Source: GENOME RESEARCH Volume: 11 Issue: 8 Pages: 1353-1364 Published: AUG 2001

- Title: The *Drosophila* serido speciation puzzle: putting new pieces together

Author(s): Ruiz A, Cansian AM, Kuhn GCS, et al.

Source: GENETICA Volume: 108 Issue: 3 Pages: 217-227 Published: 2000

- Title: How malleable is the eukaryotic genome? Extreme rate of chromosomal rearrangement in the genus *Drosophila*

Author(s): Ranz JM, Casals F, Ruiz A

Source: GENOME RESEARCH Volume: 11 Issue: 2 Pages: 230-239 Published: FEB 2001

- Title: Molecular organization of the *Drosophila melanogaster* Adh chromosomal region in *D-repleta* and *D-buzzatii*, two distantly related species of the *Drosophila* subgenus

Author(s): Gonzalez J, Betran E, Ashburner M, et al.

Source: CHROMOSOME RESEARCH Volume: 8 Issue: 5 Pages: 375-385 Published: 2000

- Title: Effect of inversion polymorphism on the neutral nucleotide variability of linked chromosomal regions in *Drosophila*

Author(s): Navarro A, Bardadilla A, Ruiz A

Source: GENETICS Volume: 155 Issue: 2 Pages: 685-698 Published: JUN 2000

- Title: Recombination rate predicts inversion size in diptera

Author(s): Caceres M, Barbadilla A, Ruiz A

Source: GENETICS Volume: 153 Issue: 1 Pages: 251-259 Published: SEP 1999

- Title: Generation of a widespread *Drosophila* inversion by a transposable element

Author(s): Caceres M, Ranz JM, Barbadilla A, et al.

Source: SCIENCE Volume: 285 Issue: 5426 Pages: 415-418 Published: JUL 16 1999

- Title: Comparative mapping of cosmids and gene clones from a 1.6 Mb chromosomal region of *Drosophila melanogaster* in three species of the distantly related subgenus *Drosophila*

Author(s): Ranz JM, Caceres M, Ruiz A

Source: CHROMOSOMA Volume: 108 Issue: 1 Pages: 32-43 Published: APR 1999

- Title: Antagonistic pleiotropic effect of second-chromosome inversions on body size and early life-history traits in *Drosophila buzzatii*

Author(s): Betran E, Santos M, Ruiz A

Source: EVOLUTION Volume: 52 Issue: 1 Pages: 144-154 Published: FEB 1998

- Title: Chromosomal evolution and comparative gene mapping in the *Drosophila repleta* species group

Author(s): Ruiz A, Ranz JM, Caceres M, et al.

Conference Information: 42nd National Congress of Genetics, SEP 04-07, 1996 CAXAMBU, BRAZIL

Source: BRAZILIAN JOURNAL OF GENETICS Volume: 20 Issue: 4 Pages: 553-565 Published: DEC 1997

- Title: On the fertility effects of pericentric inversions

Author(s): Navarro A, Ruiz A

Source: GENETICS Volume: 147 Issue: 2 Pages: 931-933 Published: OCT 1997

- Title: Inversion length and breakpoint distribution in the *Drosophila buzzatii* species complex: Is inversion length a selected trait?

Author(s): Caceres M, Barbadilla A, Ruiz A

Source: EVOLUTION Volume: 51 Issue: 4 Pages: 1149-1155 Published: AUG 1997

- Title: Recombination and gene flux caused by gene conversion and crossing over in inversion heterokaryotypes

Author(s): Navarro A, Betran E, Barbadilla A, et al.

Source: GENETICS Volume: 146 Issue: 2 Pages: 695-709 Published: JUN 1997

- Title: Chromosomal homology and molecular organization of Muller's elements D and E in the *Drosophila repleta* species group

Author(s): Ranz JM, Segarra C, Ruiz A

Source: GENETICS Volume: 145 Issue: 2 Pages: 281-295 Published: FEB 1997

- Title: The metaphase and polytene chromosomes of *Drosophila seriema* (*repleta* group; *mulleri* subgroup)

Author(s): Kuhn GCS, Ruiz A, Alves MAR, et al.

Source: BRAZILIAN JOURNAL OF GENETICS Volume: 19 Issue: 2 Pages: 209-216 Published: JUN 1996

- Title: Dynamics of gametic disequilibria between loci linked to chromosome inversions: The recombination redistributing effect of inversions
Author(s): Navarro A, Betran E, Zapata C, et al.
Source: GENETICAL RESEARCH Volume: 67 Issue: 1 Pages: 67-76 Published: FEB 1996
- Title: EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .32. LINKAGE DISEQUILIBRIUM BETWEEN ALLOZYMES AND CHROMOSOME INVERSIONS IN 2 COLONIZING POPULATIONS
Author(s): BETRAN E, QUEZADADIAZ JE, RUIZ A, et al.
Source: HEREDITY Volume: 74 Pages: 188-199 Part: Part 2 Published: FEB 1995
- Title: THE CONTRIBUTION OF QUANTITATIVE TRAIT LOCI AND NEUTRAL MARKER LOCI TO THE GENETIC VARIANCES AND COVARIANCES AMONG QUANTITATIVE TRAITS IN RANDOM MATING POPULATIONS
Author(s): RUIZ A, BARBADILLA A
Source: GENETICS Volume: 139 Issue: 1 Pages: 445-455 Published: JAN 1995
- Title: MATING PATTERN AND FITNESS-COMPONENT ANALYSIS ASSOCIATED WITH INVERSION POLYMORPHISM IN A NATURAL-POPULATION OF DROSOPHILA-BUZZATII
Author(s): BARBADILLA A, RUIZ A, SANTOS M, et al.
Source: EVOLUTION Volume: 48 Issue: 3 Pages: 767-780 Published: JUN 1994
- Title: REPRODUCTIVE RELATIONSHIPS AMONG 10 SPECIES OF THE DROSOPHILA-REPLETA GROUP FROM SOUTH-AMERICA AND THE WEST-INDIES
Author(s): MARIN I, RUIZ A, PLA C, et al.
Source: EVOLUTION Volume: 47 Issue: 5 Pages: 1616-1624 Published: OCT 1993
- Title: EVOLUTIONARY CYTOGENETICS OF THE DROSOPHILA-BUZZATII SPECIES COMPLEX
Author(s): RUIZ A, WASSERMAN M
Source: HEREDITY Volume: 70 Pages: 582-596 Part: Part 6 Published: JUN 1993
- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .20. POSITIVE PHENOTYPIC COVARIANCE BETWEEN FIELD ADULT FITNESS COMPONENTS AND BODY SIZE
Author(s): SANTOS M, RUIZ A, QUEZADADIAZ JE, et al.
Source: JOURNAL OF EVOLUTIONARY BIOLOGY Volume: 5 Issue: 3 Pages: 403-422 Published: 1992
- Title: THE ESTIMATION OF GENOTYPIC PROBABILITIES IN AN ADULT-POPULATION BY THE ANALYSIS OF DESCENDANTS
Author(s): BARBADILLA A, NAVEIRA H, RUIZ A, et al.
Source: GENETICAL RESEARCH Volume: 59 Issue: 2 Pages: 131-137 Published: APR 1992
- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .25. RANDOM MATING IN NATURE
Author(s): QUEZADADIAZ JE, SANTOS M, RUIZ A, et al.
Source: HEREDITY Volume: 68 Pages: 373-379 Part: Part 4 Published: APR 1992
- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .18. GENETIC VARIANCE FOR BODY SIZE IN A NATURAL-POPULATION OF DROSOPHILA-BUZZATII
Author(s): RUIZ A, SANTOS M, BARBADILLA A, et al.
Source: GENETICS Volume: 128 Issue: 4 Pages: 739-750 Published: AUG 1991
- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .17. DOUBLE MATING AND SPERM PREDOMINANCE
Author(s): BARBADILLA A, QUEZADADIAZ JE, RUIZ A, et al.
Source: GENETICS SELECTION EVOLUTION Volume: 23 Issue: 2 Pages: 133-140 Published: 1991
- Title: MATING PROBABILITY, BODY SIZE, AND INVERSION POLYMORPHISM IN A COLONIZING POPULATION OF DROSOPHILA-BUZZATII
Author(s): RUIZ A, SANTOS M
Conference Information: MEETING ON EVOLUTIONARY BIOLOGY OF TRANSIENT UNSTABLE POPULATIONS, JUL, 1988 BANYOLES, SPAIN
Source: EVOLUTIONARY BIOLOGY OF TRANSIENT UNSTABLE POPULATIONS Pages: 96-113 Published: 1989
- Title: DESCRIPTION AND EVOLUTIONARY RELATIONSHIPS OF 2 SPECIES OF THE DROSOPHILA-MULLERI CLUSTER (DIPTERA, DROSOPHILIDAE)
Author(s): FONTDEVILA A, WASSERMAN M, PLA C, et al.
Source: ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA Volume: 83 Issue: 3 Pages: 444-452

Published: MAY 1990

- Title: EVOLUTION OF THE MOJAVENSIS CLUSTER OF CACTOPHILIC DROSOPHILA WITH DESCRIPTIONS OF 2 NEW SPECIES

Author(s): RUIZ A, HEED WB, WASSERMAN M

Source: JOURNAL OF HEREDITY Volume: 81 Issue: 1 Pages: 30-42 Published: JAN-FEB 1990

- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .13. RANDOM DIFFERENTIATION AS A PARTIAL EXPLANATION OF CHROMOSOMAL VARIATION IN A STRUCTURED NATURAL-POPULATION

Author(s): SANTOS M, RUIZ A, FONTDEVILA A

Source: AMERICAN NATURALIST Volume: 133 Issue: 2 Pages: 183-197 Published: FEB 1989

- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .14. LARGER FLIES MATE MORE OFTEN IN NATURE

Author(s): SANTOS M, RUIZ A, BARBADILLA A, et al.

Source: HEREDITY Volume: 61 Pages: 255-262 Part: Part 2 Published: OCT 1988

- Title: DROSOPHILA-KOEPFERAE - A NEW MEMBER OF THE DROSOPHILA-SERIDO (DIPTERA, DROSOPHILIDAE) SUPERSPECIES TAXON

Author(s): FONTDEVILA A, PLA C, HASSON E, et al.

Source: ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA Volume: 81 Issue: 3 Pages: 380-385 Published: MAY 1988

- Title: HOST-PLANT SPECIFICITY IN THE CACTOPHILIC DROSOPHILA-MULLERI SPECIES COMPLEX

Author(s): RUIZ A, HEED WB

Source: JOURNAL OF ANIMAL ECOLOGY Volume: 57 Issue: 1 Pages: 237-249 Published: FEB 1988

- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATI .10. DIFFERENTIAL RESPONSE IN ENVIRONMENTAL ALCOHOL AMONG 2ND-CHROMOSOME ARRANGEMENTS IN EXPERIMENTAL POPULATIONS OF DROSOPHILA-BUZZATII

Author(s): RUIZ A, SANTOS M, FONTDEVILA A

Source: GENETICA Volume: 75 Issue: 3 Pages: 219-229 Published: DEC 15 1987

- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .8. EVIDENCE FOR ENDOCYCLIC SELECTION ACTING ON THE INVERSION POLYMORPHISM IN A NATURAL-POPULATION

Author(s): RUIZ A, FONTDEVILA A, SANTOS M, et al.

Source: EVOLUTION Volume: 40 Issue: 4 Pages: 740-755 Published: JUL 1986

- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .6. ADAPTIVE CHROMOSOMAL CHANGES IN EXPERIMENTAL POPULATIONS WITH NATURAL SUBSTRATES

Author(s): RUIZ A, FONTDEVILA A

Source: GENETICA Volume: 66 Issue: 1 Pages: 63-71 Published: 1985

- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .5. DIFFERENTIAL SURVIVORSHIP ON OPUNTIA BETWEEN DROSOPHILA-BUZZATII AND DROSOPHILA-SERIDO

Author(s): RUIZ A, NAVEIRA H, FONTDEVILA A

Source: EXPERIENTIA Volume: 41 Issue: 1 Pages: 129-131 Published: 1985

- Title: ON THE DISTRIBUTION AND THE CACTIPHILIC NICHE OF DROSOPHILA-MARTENSIS IN VENEZUELA

Author(s): BENADO M, FONTDEVILA A, CERDA HG, et al.

Source: BIOTROPICA Volume: 16 Issue: 2 Pages: 120-124 Published: 1984

- Title: POTENTIAL GENE EXCHANGE BETWEEN SOUTH-AMERICAN DROSOPHILA SPECIES, WITH DESCRIPTION OF A NEW SPECIES IN THE D-REPLETA (DIPTERA, DROSOPHILIDAE) GROUP

Author(s): WASSERMAN M, FONTDEVILA A, RUIZ A

Source: ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA Volume: 76 Issue: 4 Pages: 675-677 Published: 1983

- Title: ECOLOGY AND EVOLUTION OF THE DROSOPHILA-MULLERI SUBGROUP IN VENEZUELA AND COLOMBIA

Author(s): RUIZ A, FONTDEVILA A

Source: ACTA CIENTIFICA VENEZOLANA Volume: 32 Issue: 4 Pages: 338-345 Published: 1981

- Title: THE EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .3. CYTOGENETIC RELATIONSHIPS BETWEEN 2 SIBLING SPECIES OF THE BUZZATII CLUSTER

Author(s): RUIZ A, FONTDEVILA A, WASSERMAN M

Source: GENETICS Volume: 101 Issue: 3-4 Pages: 503-518 Published: 1982

- Title: EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .2. HOW MUCH HAS CHROMOSOMAL-POLYMORPHISM CHANGED IN COLONIZATION

Author(s): FONTDEVILA A, RUIZ A, OCANA J, et al.

Source: EVOLUTION Volume: 36 Issue: 4 Pages: 843-851 Published: 1982

- Title: EVOLUTIONARY HISTORY OF DROSOPHILA-BUZZATII .1. NATURAL CHROMOSOMAL-POLYMORPHISM IN COLONIZED POPULATIONS OF THE OLD-WORLD

Author(s): FONTDEVILA A, RUIZ A, ALONSO G, et al.

Source: EVOLUTION Volume: 35 Issue: 1 Pages: 148-157 Published: 1981

{tab=Docència}

Docència

Actividad Docente:

- Profesor Titular de Genética en la Universidad Autónoma de Barcelona desde 1984

- Catedrático de Genética en la Universidad Autónoma de Barcelona desde 1992

Cargos Académicos:

- Director del Departamento de Genética (UAB) de noviembre de 1985 a mayo de 1986.

- Coordinador de la Unidad de Genética del Departamento de Genética y Microbiología (UAB) de junio a septiembre de 1986 y de febrero de 1995 a febrero de 1997. Director del Departamento de Genética y Microbiología (UAB) de mayo de 1999 a abril de 2001.

* Miembro de la Comisión de Ciencias de la Vida para la acreditación de Lectores y Colaboradores de la AQU (2004-07).

- Miembro de la Comisión de Investigación de la UAB (1999-2000).

- Miembro de la Comisión en numerosos concursos de plazas de Profesor Titular y Catedrático en el área de Genética (1985-2007).

- Miembro de la Comisión encargada de priorizar los proyectos de I+D del MEC en el área de Biología Molecular, Celular y Genética (2003).

Complementos económicos concedidos al amparo del RD 1086/1989, de 28 de agosto, sobre retribuciones al profesorado universitario: 6 tramos de actividad docente (1977-2006) y 5 tramos de actividad investigadora (1977-2006).

{tab=Congresos}

Congresos

Conferencias en los últimos cinco años:

- CNRS, Gif-sur-Yvette (París, França). Gener 2005
- Facultat de Biologia, Universitat de Barcelona, Març 2005
- Institut de Biologia Molecular i Cel·lular, Porto (Portugal), Març 2005
- Institute of Genetics and Developmental Biology (CAS), Beijing (China), Març 2005
- University of Tezas at Arlington (USA), Abril 2007
- University of Arkansas (Fayetteville, USA), Abril 2007
- Facultad de Ciencias Biológicas, Universidad Complutense de Madrid, Noviembre 2008
- Facultat de Biología, Universidad de Barcelona, Febrero 2009

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