## Performance Report for:
### https://www.mestagtherapeutics.com/

Report generated: Wed, Mar 13, 2024 10:09 PM -0700
Test Server Location: 🇬🇧 London, UK
Using: Chrome 117.0.0.0, Lighthouse 11.0.0

| C | Performance | Structure | | L. Contentful Paint | T. Blocking Time | C. Layout Shift |
|---|---|---|---|---|---|---|
| | 59% | 86% | | 2.4s | 3ms | 0.33 |

## Top Issues

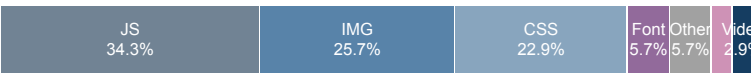| High | Avoid enormous network payloads LCP | Total size was 28.9MB |
|---|---|---|
| Med | Use explicit width and height on image elements CLS | 1 image found |
| Med-Low | Avoid large layout shifts CLS | 2 elements found |
| Low | Eliminate render-blocking resources FCP LCP | Potential savings of 28ms |
| Low | Avoid chaining critical requests FCP LCP | 10 chains found |

## Page Details

**5.6s**
**Fully Loaded Time**

### Total Page Size - 30.8MB

| Video 30.0MB | | |
|---|---|---|

### Total Page Requests - 35

| JS 34.3% | IMG 25.7% | CSS 22.9% | Font 5.7% | Other 5.7% | Vide 2.9% |
|---|---|---|---|---|---|

🟪 HTML   🔹 JS   🔹 CSS   🔹 IMG   🔷 Video   🟪 Font   ⬜ Other

### How does this affect me?

Today's web user expects a fast and seamless website experience. Delivering that fast experience can result in increased visits, conversions and overall happiness.

As if you didn't need more incentive, **Google has announced that they are using page speed in their ranking algorithm.**
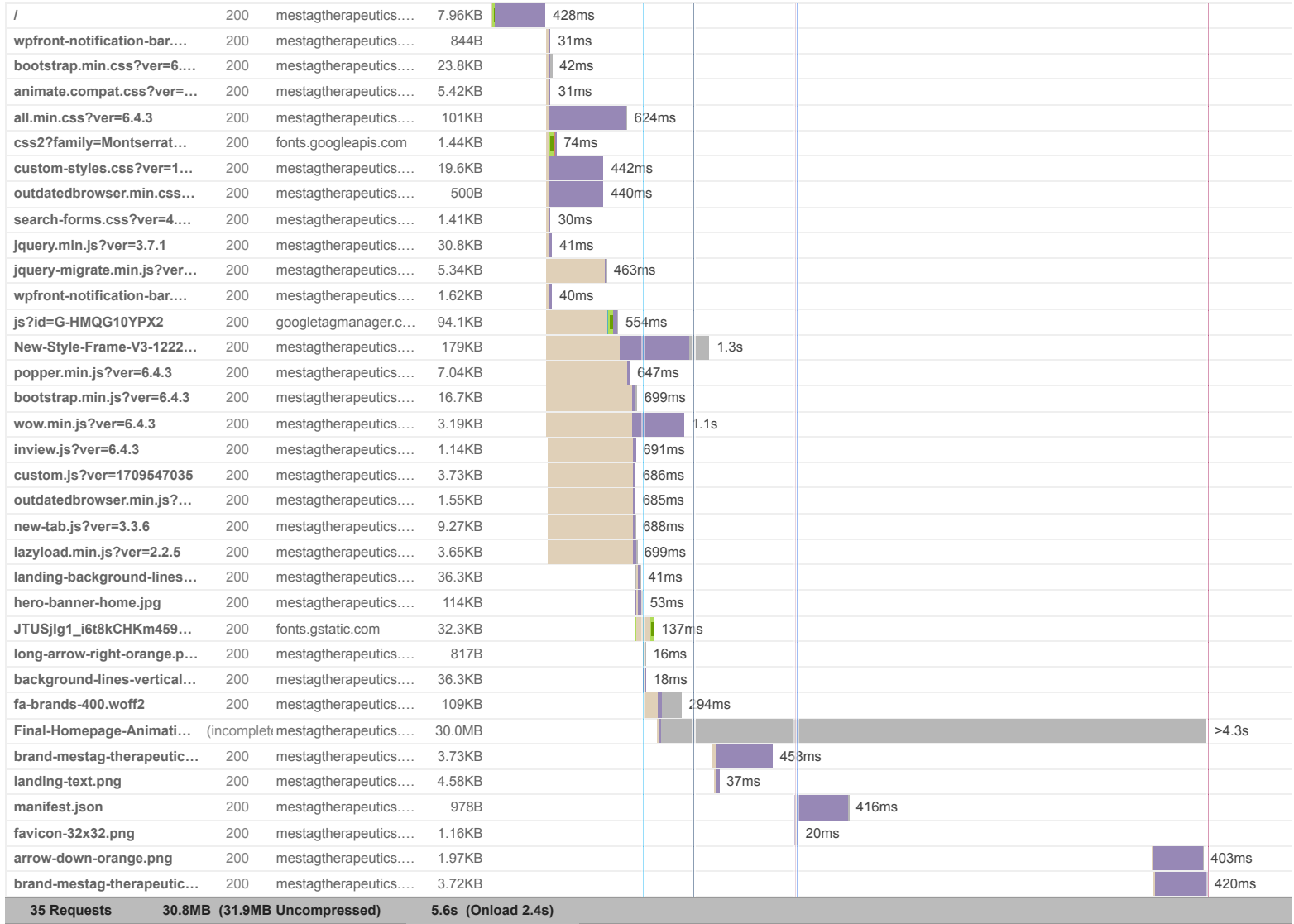
### About GTmetrix

# CARBON 60
THE MANAGED CLOUD COMPANY
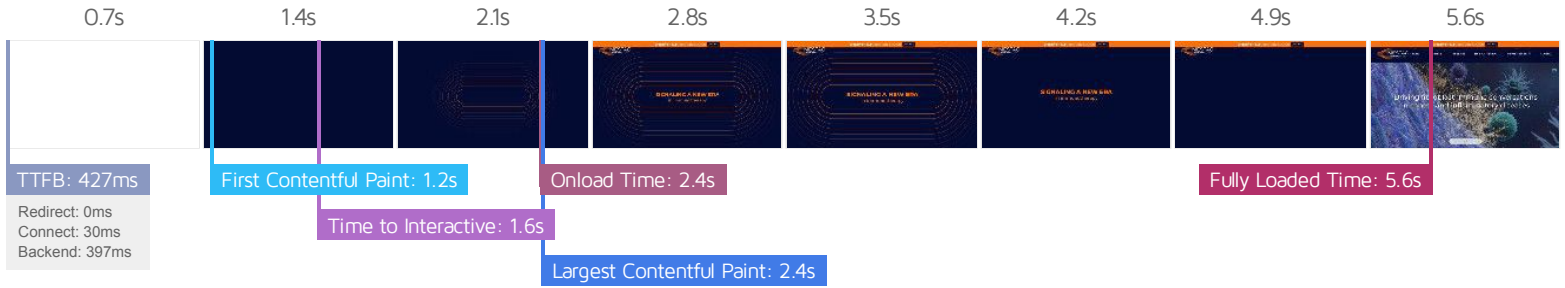
GTmetrix is developed by the good folks at **Carbon60**, a Canadian hosting company with over 28 years experience in web technology.

https://carbon60.com/

The waterfall chart displays the loading behaviour of your site in your selected browser. It can be used to discover simple issues such as 404's or more complex issues such as external resources blocking page rendering.

**Mestag Therapeutics » Signaling a new era in immunotherapy**

| Resource | Status | Host | Size | Time |
|---|---|---|---|---|
| / | 200 | mestagtherapeutics.... | 7.96KB | 428ms |
| wpfront-notification-bar.... | 200 | mestagtherapeutics.... | 844B | 31ms |
| bootstrap.min.css?ver=6.... | 200 | mestagtherapeutics.... | 23.8KB | 42ms |
| animate.compat.css?ver=... | 200 | mestagtherapeutics.... | 5.42KB | 31ms |
| all.min.css?ver=6.4.3 | 200 | mestagtherapeutics.... | 101KB | 624ms |
| css2?family=Montserrat... | 200 | fonts.googleapis.com | 1.44KB | 74ms |
| custom-styles.css?ver=1... | 200 | mestagtherapeutics.... | 19.6KB | 442ms |
| outdatedbrowser.min.css... | 200 | mestagtherapeutics.... | 500B | 440ms |
| search-forms.css?ver=4.... | 200 | mestagtherapeutics.... | 1.41KB | 30ms |
| jquery.min.js?ver=3.7.1 | 200 | mestagtherapeutics.... | 30.8KB | 41ms |
| jquery-migrate.min.js?ver... | 200 | mestagtherapeutics.... | 5.34KB | 463ms |
| wpfront-notification-bar.... | 200 | mestagtherapeutics.... | 1.62KB | 40ms |
| js?id=G-HMQG10YPX2 | 200 | googletagmanager.c... | 94.1KB | 554ms |
| New-Style-Frame-V3-1222... | 200 | mestagtherapeutics.... | 179KB | 1.3s |
| popper.min.js?ver=6.4.3 | 200 | mestagtherapeutics.... | 7.04KB | 647ms |
| bootstrap.min.js?ver=6.4.3 | 200 | mestagtherapeutics.... | 16.7KB | 699ms |
| wow.min.js?ver=6.4.3 | 200 | mestagtherapeutics.... | 3.19KB | 1.1s |
| inview.js?ver=6.4.3 | 200 | mestagtherapeutics.... | 1.14KB | 691ms |
| custom.js?ver=1709547035 | 200 | mestagtherapeutics.... | 3.73KB | 686ms |
| outdatedbrowser.min.js?... | 200 | mestagtherapeutics.... | 1.55KB | 685ms |
| new-tab.js?ver=3.3.6 | 200 | mestagtherapeutics.... | 9.27KB | 688ms |
| lazyload.min.js?ver=2.2.5 | 200 | mestagtherapeutics.... | 3.65KB | 699ms |
| landing-background-lines... | 200 | mestagtherapeutics.... | 36.3KB | 41ms |
| hero-banner-home.jpg | 200 | mestagtherapeutics.... | 114KB | 53ms |
| JTUSjIg1_i6t8kCHKm459... | 200 | fonts.gstatic.com | 32.3KB | 137ms |
| long-arrow-right-orange.p... | 200 | mestagtherapeutics.... | 817B | 16ms |
| background-lines-vertical... | 200 | mestagtherapeutics.... | 36.3KB | 18ms |
| fa-brands-400.woff2 | 200 | mestagtherapeutics.... | 109KB | 294ms |
| Final-Homepage-Animati... | (incomplete | mestagtherapeutics.... | 30.0MB | >4.3s |
| brand-mestag-therapeutic... | 200 | mestagtherapeutics.... | 3.73KB | 453ms |
| landing-text.png | 200 | mestagtherapeutics.... | 4.58KB | 37ms |
| manifest.json | 200 | mestagtherapeutics.... | 978B | 416ms |
| favicon-32x32.png | 200 | mestagtherapeutics.... | 1.16KB | 20ms |
| arrow-down-orange.png | 200 | mestagtherapeutics.... | 1.97KB | 403ms |
| brand-mestag-therapeutic... | 200 | mestagtherapeutics.... | 3.72KB | 420ms |

**35 Requests    30.8MB (31.9MB Uncompressed)    5.6s (Onload 2.4s)**

| 0.7s | 1.4s | 2.1s | 2.8s | 3.5s | 4.2s | 4.9s | 5.6s |

**TTFB: 427ms**
Redirect: 0ms
Connect: 30ms
Backend: 397ms

**First Contentful Paint: 1.2s**

**Time to Interactive: 1.6s**

**Onload Time: 2.4s**

**Largest Contentful Paint: 2.4s**

**Fully Loaded Time: 5.6s**

## Performance Metrics

### First Contentful Paint

How quickly content like text or images are painted onto your page. A good user experience is 0.9s or less.

OK, but consider improvement

**1.2s**

### Time to Interactive

How long it takes for your page to become fully interactive. A good user experience is 2.5s or less.

Good - Nothing to do here

**1.6s**

### Speed Index

How quickly the contents of your page are visibly populated. A good user experience is 1.3s or less.

Much longer than recommended

**5.0s**

### Total Blocking Time

How much time is blocked by scripts during your page loading process. A good user experience is 150ms or less.

Good - Nothing to do here

**3ms**

### Largest Contentful Paint

How long it takes for the largest element of content (e.g. a hero image) to be painted on your page. A good user experience is 1.2s or less.

Longer than recommended

**2.4s**

### Cumulative Layout Shift

How much your page's layout shifts as it loads. A good user experience is a score of 0.1 or less.

Much more than recommended

**0.33**

## Browser Timings

| Redirect | 0ms | Connect | 30ms | Backend | 397ms |
|---|---|---|---|---|---|
| TTFB | 427ms | First Paint | 1.2s | DOM Int. | 1.3s |
| DOM Loaded | 1.6s | Onload | 2.4s | Fully Loaded | 5.6s |

IMPACT   AUDIT

| Low | **Avoid long main-thread tasks** TBT | | 1 long task found | |
|---|---|---|---|---|

Lists the longest tasks on the main thread, useful for identifying worst contributors to input delay.

| URL | START TIME | DURATION |
|---|---|---|
| • https://www.mestagtherapeutics.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1 | 1.2s | 53ms |

| Low | **Reduce JavaScript execution time** TBT | | 190ms spent executing JavaScript | |
|---|---|---|---|---|

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this.

| URL | TOTAL CPU TIME | SCRIPT EVALUATION | SCRIPT PARSE |
|---|---|---|---|
| • Unattributable | 479ms | 4ms | 0ms |
| • https://www.mestagtherapeutics.com/ | 289ms | 40ms | 1ms |
| • https://www.mestagtherapeutics.com/wp-includes/js/jquery/jquery.min.js?ver=3.7.1 | 139ms | 68ms | 1ms |
| • https://www.googletagmanager.com/gtag/js?id=G-HMQG10YPX2 | 75ms | 69ms | 4ms |

| Low | **Reduce unused CSS** FCP LCP | | Potential savings of 141KB | |
|---|---|---|---|---|

Reduce unused rules from stylesheets and defer CSS not used for above-the-fold content to decrease bytes consumed by network activity.

| URL | TRANSFER SIZE | POTENTIAL SAVINGS |
|---|---|---|
| • https://www.mestagtherapeutics.com/wp-content/themes/mestagtherapeutics/assets/css/all.min.css?ver=6.4.3 | 101KB | 101KB |
| • https://www.mestagtherapeutics.com/wp-content/themes/mestagtherapeutics/assets/css/bootstrap.min.css?ver=6.4.3 | 23.8KB | 23.4KB |
| • https://www.mestagtherapeutics.com/wp-content/themes/mestagtherapeutics/assets/css/custom-styles.css?ver=1708639307 | 19.6KB | 16.7KB |

| Low | **Serve images in next-gen formats** | | Potential savings of 31.9KB | |
|---|---|---|---|---|

Image formats like WebP and AVIF often provide better compression than PNG or JPEG, which means faster downloads and less data consumption.

| URL | RESOURCE SIZE | POTENTIAL SAVINGS |
|---|---|---|
| https://www.mestagtherapeutics.com/wp-content/themes/mestagtherapeutics/assets/img/hero-banner-home.jpg | 114KB | 31.9KB |

| Low | **Reduce initial server response time** FCP LCP | | Root document took 396ms | |
|---|---|---|---|---|

Keep the server response time for the main document short because all other requests depend on it.

| URL | TIME SPENT |
|---|---|
| • https://www.mestagtherapeutics.com/ | 396ms |

| Low | **Defer offscreen images** | | Potential savings of 35.8KB | |
|---|---|---|---|---|

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive.

| URL | RESOURCE SIZE | POTENTIAL SAVINGS |
|---|---|---|
| https://www.mestagtherapeutics.com/wp-content/themes/mestagtherapeutics/assets/img/landing-background-lines.png | 35.8KB | 35.8KB |

| Low | Minify CSS  FCP  LCP | Potential savings of 4.44KB |
|---|---|---|

Minifying CSS files can reduce network payload sizes.

| URL | TRANSFER SIZE | POTENTIAL SAVINGS |
|---|---|---|
| • https://www.mestagtherapeutics.com/wp-content/themes/mestagtherapeutics/assets/css/custom-styles.css?ver=1708639307 | 19.6KB | 4.44KB |

| Low | Avoid non-composited animations  CLS | 3 animated elements found |
|---|---|---|

Animations which are not composited can be janky and increase CLS.

| ELEMENT | NAME |
|---|---|
| Learn More<br>`<a class="wpfront-button" href="https://www.mestagtherapeutics.com/2024/03/05/upcoming-3300-data-at-aacr/" target="_blank" rel="noopener">` | |
| Unsupported CSS Property: visibility | visibility |
| brand-mestag-therapeutics<br>`<div class="landing-main slide-up">` | |
| Unsupported CSS Property: visibility | visibility |
| Unsupported CSS Property: top | top |
| brand-mestag-therapeutics<br>`<div class="brand skip">` | |
| Unsupported CSS Property: visibility | visibility |

| Low | Reduce unused JavaScript  LCP | Potential savings of 42.8KB |
|---|---|---|

Reduce unused JavaScript and defer loading scripts until they are required to decrease bytes consumed by network activity.

| URL | TRANSFER SIZE | POTENTIAL SAVINGS |
|---|---|---|
| https://www.googletagmanager.com/gtag/js?id=G-HMQG10YPX2 | 94.5KB | 42.8KB |

| N/A | Avoid an excessive DOM size  TBT | 150 elements |
|---|---|---|

A large DOM will increase memory usage, cause longer style calculations, and produce costly layout reflows.

| STATISTIC | ELEMENT | VALUE |
|---|---|---|
| Total DOM Elements | | 150 |
| Maximum DOM Depth | li#menu-item-1836 > ul.sub-menu > li#menu-item-1843 > a<br>`<a href="/about#team">` | 13 |
| Maximum Child Elements | body.home<br>`<body class="home page-template-default page page-id-1635">` | 15 |

| N/A | **Largest Contentful Paint element** LCP | 2,370 ms |
|---|---|---|

This is the largest contentful element painted within the viewport.

**ELEMENT**

Driving fibroblast-immune conversations in cancer and inflammatory diseases Scr…
`<div id="row1" class="hero-main white-bg" style="">`

| PHASE | % OF LCP | TIMING |
|---|---|---|
| TTFB | 18% | 426ms |
| Load Delay | 30% | 711ms |
| Load Time | 2% | 47ms |
| Render Delay | 50% | 1.2s |

| N/A | **Avoid serving legacy JavaScript to modern browsers** TBT | Potential savings of 67B |
|---|---|---|

Polyfills and transforms enable legacy browsers to use new JavaScript features. However, many aren't necessary for modern browsers. For your bundled JavaScript, adopt a modern script deployment strategy using module/nomodule feature detection to reduce the amount of code shipped to modern browsers, while retaining support for legacy browsers.

| URL | | POTENTIAL SAVINGS |
|---|---|---|
| https://www.mestagtherapeutics.com/wp-content/themes/mestagtherapeutics/assets/js/wow.min.js?ver=6.4.3 | | 67B |
| Line:2 Column:341 | `@babel/plugin-transform-classes` | |

| N/A | **Minimize main-thread work** TBT | Main-thread busy for 1.1s |
|---|---|---|

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this.

| CATEGORY | TIME SPENT |
|---|---|
| Other | 651ms |
| Script Evaluation | 261ms |
| Style & Layout | 129ms |
| Parse HTML & CSS | 46ms |
| Rendering | 24ms |
| Script Parsing & Compilation | 12ms |
| Garbage Collection | 1ms |

| N/A | **Reduce the impact of third-party code** TBT | Total size was 129KB |
|---|---|---|

Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and try to load third-party code after your page has primarily finished loading.

| THIRD-PARTY | TRANSFER SIZE | MAIN-THREAD BLOCKING TIME |
|---|---|---|
| **GOOGLE TAG MANAGER** | 94.5KB | 0ms |
| • https://www.googletagmanager.com/gtag/js?id=G-HMQG10YPX2 | 94.5KB | 0ms |
| **GOOGLE FONTS** | 34.3KB | 0ms |
| • https://fonts.gstatic.com/s/montserrat/v26/JTUSjIg1_i6t8kCHKm459Wlhyw.woff2 | 32.9KB | 0ms |

| N/A | **User Timing marks and measures** |
|---|---|

No user timings and/or marks found.